Infrastructure Footprint Reduction Program



Environmental Assessment Fort Benning, Georgia

June 2018

Directorate of Public Works Environmental Management Division Fort Benning, Georgia PAGEIMIEMIONALLYLEFT BLANK

INFRASTRUCTURE FOOTPRINT REDUCTION PROGRAM ENVIRONMENTAL ASSESSMENT FORT BENNING, GEORGIA

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SUMMARY

1 Introduction

Fort Benning has prepared this Environmental Assessment (EA) to examine the potential environmental consequences of implementing the Fiscal Year (FY) 19-23 Facility Reduction Program (FRP) in accordance with the National Environmental Policy Act (NEPA) of 1969 (42 US Code [USC] 4321 et seq.), the Council on Environmental Quality (CEQ) Regulations Implementing the Procedural Provisions of NEPA (40 Code of Federal Regulations [CFR] Part 1500-1508), and the Army NEPA Regulation (*Environmental Analysis of Army Actions*; 32 CFR Part 651.

As a public document, the EA is used to determine and evaluate the potential environmental effects of the Proposed Action, identify possible/potential mitigation measures to lessen or eliminate adverse effects, and examine reasonable alternatives for the Proposed Action. The intended audience of the EA is Army decision-makers, interested government agencies, federally recognized Native American Tribes, and non-governmental organizations, and members of the public. The effects analyses in this EA are based on a variety of sources and the best available information at the time of preparation. The information contained in this EA will be reviewed and considered by the Army prior to the final decision on how to implement the Proposed Action, if at all.

2 Background

A US Army Training and Doctrine Command (TRADOC) memorandum dated 1 November 1996, directed Army installations to support the "Winning the Infrastructure War" initiative via implementation of the IFRP (Infrastructure Footprint Reduction Program) (Fort Benning, 1997). Rather than incur the expense of maintaining outdated or unusable buildings and other structures (i.e., concrete pads and former building foundations, antiquated training equipment, etc.), infrastructure would be demolished and their various functions relocated. The IFRP continues to be implemented on the Installation through the development of the FRP. The FRP is a dynamic Fort Benning initiative with infrastructure being added to or removed from the proposed demolition inventory on the basis of evolving mission demands, utilization priorities, and available funding. Appendix A contains a listing of infrastructure currently proposed for demolition and commonly referred to as the FRP list.

An initial EA and Finding of No Significant Impact (FNSI) for the IFRP on Fort Benning were completed in 1997. The EA analyzed the No Action (Status Quo) Alternative plus two Action Alternatives. Alternative 2 involved the construction and utilization of an on-Post facility for the disposal of demolition wastes. The Preferred Alternative (Alternative 3) involved the transport of demolition wastes to an off-Post commercial facility. The EA's Preferred Alternative offered the most flexibility in disposal methods for wastes generated by demolition and was the alternative selected as outlined in the FNSI.

As a result of infrastructure being demolished or being removed from the program's demolition inventory due to reuse and other infrastructure being added, Supplemental EAs were prepared in

2002 and again in 2008. Both determined that the demolition of infrastructure on the FRP lists would not result in significant adverse effects; instead, all adverse effects were considered minor and further minimized through mitigation and/or monitoring activities. All total, Fort Benning has demolished an estimated 1.4 million square feet of buildings and structures over the last 15 years through the FRP and under a variety of other improvement projects (Miller, S. personal communication, 2018).

More recent comprehensive and collaborative planning efforts by the Army have directed installations to continue optimizing land use and the management of existing facilities through site specific area development planning. Area Development Plans (ADPs) are developed from workshop style events guiding installation planning personnel and Army stakeholders through exercises which promotes short and long-term planning (Fort Benning, 2018). Key components of the ADPs include the repurposing of existing facilities for optimal use, demolition of excess infrastructure and unneeded facilities, and providing area specific plans from which the Real Property Master Plan can be updated (Fort Benning, 2016). An installation's Real Property Master Plan provides broad planning direction at the land use level for sustainable installation development that supports mission and environmental requirements. Fort Benning is currently in the process of updating its 2011 Real Property Master Plan.

3 Proposed Action

The Proposed Action is to implement the FY19-23 FRP at Fort Benning, Georgia. Implementation of the FRP could demolish, dispose, and remove from Real Property inventories approximately 150 buildings and structures equaling more than two million square feet. This tentative goal would occur over the next five years at various locations across Fort Benning's cantonment areas for an estimated cost of \$18 million (Figure 2-1). Ancillary structures would also be removed as part of the Proposed Action. Relocation of personnel, supplies, and/or equipment may include renovations and/or adaptive reuse of existing structures. Details of relocation and renovation are uncertain at this time, and those types of future actions will be subject to appropriate NEPA documentation as required.

4 **Proposed Action Alternatives**

Fort Benning developed a screening criteria to measure which alternatives are reasonable for further analysis. Any alternatives that failed to meet the criteria were eliminated from full consideration within this EA. Alternatives proposed must:

- Comply with the Army TRADOC's IFRP and Army directives instructing optimized facility management through footprint reduction efforts (DoD, 2016a and b);
- Be economically feasible (e.g., facility conversion or extensive renovation and reuse of buildings and structures on the FRP list would be less cost effective than new construction/replacement or use of other facility); and
- Be consistent with Installation master planning and support mission requirements.

Alternatives carried forward for analysis in this EA include:

No Action Alternative

Under the No Action Alternative, Fort Benning would continue to utilize approximately 150 building and structures considered cost prohibitive to sustain, in excess of Army utilization needs, and in some cases may contain potential human health and safety concerns associated with older and ageing infrastructure (e.g., lead based paints (LBPs), asbestos containing materials (ACMs), and/or structural deterioration). Occupied buildings would continue to incur excessive maintenance costs until new replacement facilities can be afforded to relocate current occupying activities and personnel. Currently under-utilized and unoccupied or abandoned buildings or structures would be demolished only as new projects requiring their removal are scheduled in the future. Note that the No Action Alternative does not meet the purpose and need for the Proposed Action but provides a baseline for comparison of other alternatives.

<u>Alternative 1: Full Demolition</u>

Under Alternative 1, Fort Benning would implement the FY19-23 FRP by demolishing all of the structures identified in the FRP's proposed demolition list (Appendix A). Full demolition would preclude the expenditure of excessive maintenance and/or adaptive reuse/renovation costs associated with the utilization of older facilities. Personnel and activities currently occupying facilities to be demolished would relocate to available facilities. Demolished buildings and structures would become open space and in most circumstances the area would be available to be utilized in future projects.

<u>Alternative 2: Selective Demolition</u>

Alternative 2 is similar to Alternative 1; however, Fort Benning would retain the 17 historic buildings identified on the FRP's proposed demolition list. Those 17 buildings are historic properties that are eligible for listing on the National Register of Historic Places per the National Historic Preservation Act. Fort Benning would implement the FY19-23 FRP by demolishing approximately 133 buildings and other structures and continue utilizing the historic structures as best as possible. As outlined in Appendix B, a considerable expenditure of funds to utilize and maintain the historic buildings would continue and many of these facilities would need adaptive reuse and other substantial renovations to sustain adequate and safe working conditions as they continue to age.

5 Environmental Consequences

The analysis contained in this EA indicates that the Proposed Action could have long-term, minor adverse impacts to Cultural Resources, under Alternative 1, and short-term, minor adverse impacts under Alternative 2. Other short-term, minor adverse impacts resulting from demolition activities would occur to Hazardous Materials and Waste, Soils, Water Resources, and Air Quality. Both Air Quality and Utilities would result in long-term, minor adverse impacts as a result of the No Action Alternative. VECs with negligible effects under the Action Alternatives includes Biological Resources, Land Use, and Noise. Additionally, long-term, beneficial impacts to Air Quality and Utilities would result from implementing the Action Alternatives due to

reductions in emissions and energy demands. Environmental consequences of the VECs fully analyzed are summarized in Table ES-1 below.

As discussed in Section 4, these negligible effects to minor adverse direct/indirect impacts do not result in significant adverse cumulative effects when considering other past, present, and reasonably foreseeable future activities at Fort Benning. Adherence to Federal and State laws and regulations, as well as Installation management plans, and Army Regulations would minimize impacts of demolition and disposal activities to Air Quality, Cultural Resources, Hazardous Materials and Waste, Soils, and Water Resources.

6 Conclusions

Implementation of either Action Alternative or the No Action Alternative would have no significant impact on the quality of human life or the natural environment. Alternative 1 is, however, more desirable in comparison due to its proficiency to further comply with the US Army TRADOC's IFRP and more recent Army efforts to optimize facility management through reductions to buildings and structures. A FNSI is warranted for this Proposed Action and does not require the preparation of an EIS.

| VEC | No Action | Alternative 1: Full Demolition | Alternative 2: Selective Demolition |
|----------------------------------|---|--|--|
| Air Quality | Long-term, minor adverse impacts as a result of existing emission levels and use of existing emission sources. | Long-term, beneficial impacts due to the reduction of air emissions equipment/Title V Permit. Short-term, minor adverse impacts from fugitive dust emissions during demolition. | Same as Alternative 1. |
| Biological Resources | No impacts | Negligible effects as a result of potential soil disturbances, removal of vegetation and possible habitat, vehicle traffic, etc. | Same as Alternative 1. |
| Cultural Resources | No impacts | Long-term, minor resulting from altering the historic landscapes. | Short-term, minor adverse impacts resulting from temporally altering the historic viewsheds. |
| Hazardous Materials and Waste | No impacts | Short-term, minor adverse impacts from an increase in hazardous materials and disposal of waste. | Same as Alternative 1. |
| Land Use | No impacts | Negligible effects from changes in land utilization. | Same as Alternative 1. |
| Noise | No impacts | Negligible effects as a result temporary demolition activity. | Same as Alternative 1. |
| Soils | No impacts | Short-term, minor adverse impacts as a result of ground disturbances. | Same as Alternative 1. |
| Utilities | Long-term, minor adverse impacts as a result of energy usage by facilities on the FY19-23 FRP list. | Long-term, beneficial impacts from reductions to Fort Benning's total energy demand. | Same as Alternative 1. |
| Water Resources | No impacts | Short-term, minor adverse impacts as a result of ground disturbances or accidental spills. | Same as Alternative 1. |

Table ES.1: Summary of Direct and Indirect Environmental Consequences for Alternatives

Table of Contents

| 1 | PUI | JRPOSE, NEED, AND SCOPE | 1-1 |
|---|------|---|------|
| | 1.1 | Introduction | 1-1 |
| | 1.2 | Study Location | 1-1 |
| | 1.3 | Background | 1-2 |
| | 1.4 | Purpose and Need | 1-3 |
| | 1.5 | Decision to Be Made | |
| | 1.6 | Scope of the EA | |
| | 1.7 | Public Involvement | |
| 2 | | ESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES | |
| | 2.1 | Introduction | |
| | 2.2 | Proposed Action | |
| | 2.3 | Alternatives Screening Criteria | |
| | 2.4 | Alternatives Proposed | |
| | 2.4. | | |
| | 2.4. | | |
| | 2.4. | | |
| | 2.5 | Alternatives Considered but Eliminated from Full Study | |
| | 2.5. | | |
| | 2.5. | č | |
| | 2.5. | | |
| | 2.5. | 5.4 Sale and Relocation of Buildings or Structures Off-Post | 2-4 |
| 3 | AFI | FECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES | 3-1 |
| | 3.1 | Introduction | |
| | 3.2 | VECs | 3-2 |
| | 3.2. | 2.1 VECs Not Carried Forward for Analysis | |
| | 3.3 | Air Quality | 3-3 |
| | 3.3. | 3.1 Affected Environment | |
| | 3.3. | B.2 Environmental Consequences | |
| | 3.3. | 3.3 Mitigation | 3-7 |
| | 3.4 | Biological Resources | 3-7 |
| | 3.4. | Affected Environment | 3-7 |
| | 3.4. | 1.2 Environmental Consequences | 3-12 |

| 3.4.3 | Mitigation |
|----------|--------------------------------|
| 3.5 Cul | tural Resources |
| 3.5.1 | Affected Environment |
| 3.5.2 | Environmental Consequences |
| 3.5.3 | Mitigation |
| 3.6 Haz | zardous Materials and Waste |
| 3.6.1 | Affected Environment |
| 3.6.2 | Environmental Consequences |
| 3.6.3 | Mitigation |
| 3.7 Lar | nd Use |
| 3.7.1 | Affected Environment |
| 3.7.2 | Environmental Consequences |
| 3.7.3 | Mitigation |
| 3.8 Noi | se |
| 3.8.1 | Affected Environment |
| 3.8.2 | Environmental Consequences |
| 3.8.3 | Mitigation |
| 3.9 Soi | ls |
| 3.9.1 | Affected Environment |
| 3.9.2 | Environmental Consequences |
| 3.9.3 | Mitigation |
| 3.10 Uti | lities |
| 3.10.1 | Affected Environment |
| 3.10.2 | Environmental Consequences |
| 3.10.3 | Mitigation |
| 3.11 Wa | ter Resources |
| 3.11.1 | Affected Environment |
| 3.11.2 | Environmental Consequences |
| 3.11.3 | Mitigation |
| 3.12 Env | vironmental Impact Summary |
| 4 CUMUI | LATIVE IMPACTS |
| 4.1 Intr | oduction |
| 4.1.1 | Identifying Cumulative Impacts |

| | 4.1.2 | Past, Present and Reasonably Foreseeable Actions | 4-1 |
|---|---------|--|-----|
| 4 | .2 Cur | nulative Impacts by Resource | 4-3 |
| | 4.2.1 | Air Quality | 4-5 |
| | 4.2.2 | Cultural Resources | 4-5 |
| | 4.2.3 | Hazardous Materials and Waste | 4-5 |
| | 4.2.4 | Soils | 4-6 |
| | 4.2.5 | Utilities | 4-6 |
| | 4.2.6 | Water Resources | 4-6 |
| 5 | CONCL | USIONS | 5-1 |
| 6 | REFERI | ENCES | 6-1 |
| 7 | ACRON | IYMS AND ABBREVIATIONS | 7-1 |
| 8 | LIST OF | F PREPARERS | 8-1 |
| 9 | DISTRI | BUTON LIST | 8-1 |

FIGURES

| Figure 1-1: Army Installation Fort Benning | 1-6 |
|---|-----|
| Figure 2-1: FY19-23 FRP | 2-6 |
| Figure 3-1: Main Post and Lawson Army Airfield Historic Districts | |
| Figure 3-2: FY19-23 FRP Noise Contours | |
| Figure 3-3: Main Post and Sand Hill Cantonment Soils | |
| Figure 3-4: Kelley Hill and Harmony Church Cantonment Soils | |
| Figure 3-5: Surface Water and Floodplains | |
| Figure 4-1: Cumulative Project Locations | 4-4 |

TABLES

| Table 3.1: Comparative Noise Levels | |
|--|--|
| Table 3.2: Summary of Direct and Indirect Environmental Consequences | |

APPENDICIES

APPENDIX A: Fort Benning Facilities Reduction Program Demolition List APPENDIX B: Fort Benning Facilities Reduction Program Economic Analysis APPENDIX C: Fort Benning Facilities Reduction Program Draft Finding of No Significant Impact

1 PURPOSE, NEED, AND SCOPE

1.1 Introduction

Fort Benning has prepared this Environmental Assessment (EA) to examine the potential environmental consequences of implementing the Fiscal Year (FY) 19-23 Facility Reduction Program (FRP) in accordance with the National Environmental Policy Act (NEPA) of 1969 (42 US Code [USC] 4321 et seq.), the Council on Environmental Quality (CEQ) Regulations Implementing the Procedural Provisions of NEPA (40 Code of Federal Regulations [CFR] Part 1500-1508), and the Army NEPA Regulation (*Environmental Analysis of Army Actions*; 32 CFR Part 651).

The EA is used to determine and evaluate the potential environmental effects of the Proposed Action, identify possible/potential mitigation measures to lessen or eliminate adverse effects, and examine reasonable alternatives for the Proposed Action. The intended audience of the EA is Army decision-makers, interested government agencies, federally recognized Native American Tribes, and non-governmental organizations, and members of the public. The effects analyses in this EA are based on a variety of sources and the best available information at the time of preparation. The information contained in this EA will be reviewed and considered by the Army prior to the final decision on how to implement the Proposed Action, if at all.

1.2 Study Location

Initially founded in 1918 as Camp Benning, Fort Benning is an Army Installation located near Columbus, Georgia (GA) and serves as serves as the home to numerous deployable Army units and other tenants. The Installation supports more than 120,000 Active Duty Military, Family Members, Reserve Component Soldiers, Retirees, and Army Civilian Employees on a daily basis (Figure 1-1).

The Installation is located on approximately 182,000 acres in southwest GA's Chattahoochee and Muscogee Counties and east Alabama's Russell County and contains four cantonment areas: Main Post, Kelley Hill, Sand Hill, and Harmony Church. Within these cantonment areas, Fort Benning has its own offices, schools, shopping malls, medical facilities, housing, and churches. Multiple training facilities, firing ranges, and maneuver training areas exist across the Installation. The cantonment areas on-Post provide a centralized location for community facilities and support services for Soldiers and their Families.

Fort Benning plays a pivotal role in supporting the Army's overarching mission by providing the institutional training of Infantry and Armor Soldiers and leaders, basic and advanced individual training of new enlistees, and functional training in special skills needed to support the operating forces. Fort Benning became the home of the Maneuver Center of Excellence (MCoE) following the 2005 Base Closure and Realignment Commission's recommendations to consolidate the Armor and Infantry Centers and Schools. This transformation in force structure was completed in 2011 and sustained Fort Benning's role as an invaluable military readiness training platform that develops the capabilities of the maneuver force and individual Soldier. In 2016, Fort Benning's force structure was once again transformed with the deactivation of the 3rd Heavy Brigade

Combat Team (3rd HBCT) of the 3rd Infantry Division (3ID) and activation of the 1st Battalion, 28th Infantry Regiment Task Force (1-28th IBFT). To support the Army's mission, Fort Benning must continue to possess the infrastructure and facilities necessary to support the military training occurring there and support the quality of life of the Soldiers and their Families.

1.3 Background

A US Army Training and Doctrine Command (TRADOC) memorandum dated 1 November 1996, directed Army installations to support the "Winning the Infrastructure War" initiative via implementation of the Infrastructure Footprint Reduction Program (IFRP) (Fort Benning, 1997). Rather than incur the expense of maintaining outdated or unusable buildings and other structures (i.e., concrete pads and former building foundations, antiquated training equipment, etc.), infrastructure would be demolished and their various functions relocated. The IFRP continues to be implemented on the Installation through the development of the FRP. The FRP is a dynamic Fort Benning initiative with infrastructure being added to or removed from the proposed demolition inventory on the basis of evolving mission demands, utilization priorities, and available funding. Appendix A contains a listing of infrastructure currently proposed for demolition and commonly referred to as the FRP list.

An initial EA and Finding of No Significant Impact (FNSI) for the IFRP on Fort Benning were completed in 1997. The EA analyzed the No Action (Status Quo) Alternative plus two Action Alternatives. Alternative 2 involved the construction and utilization of an on-Post facility for the disposal of demolition wastes. The Preferred Alternative (Alternative 3) involved the transport of demolition wastes to an off-Post commercial facility. The EA's Preferred Alternative offered the most flexibility in disposal methods for wastes generated by demolition and was the alternative selected as outlined in the FNSI.

As a result of infrastructure being demolished or being removed from the program's demolition inventory due to reuse and other infrastructure being added, Supplemental EAs were prepared in 2002 and again in 2008. Both determined that the demolition of infrastructure on the FRP lists would not result in significant adverse effects; instead, all adverse effects were considered minor and further minimized through mitigation and/or monitoring activities. All total, Fort Benning has demolished an estimated 1.4 million square feet of buildings and structures over the last 15 years through the FRP and under a variety of other improvement projects (Miller, S. personal communication, 2018).

More recent comprehensive and collaborative planning efforts by the Army have directed installations to continue optimizing land use and the management of existing facilities through site specific area development planning. Area Development Plans (ADPs) are developed from workshop style events guiding installation planning personnel and Army stakeholders through exercises which promotes short and long-term planning (Fort Benning, 2018). Key components of the ADPs include the repurposing of existing facilities for optimal use, demolition of excess infrastructure and unneeded facilities, and providing area specific plans from which the Real Property Master Plan can be updated (Fort Benning, 2016). An installation's Real Property Master Plan provides broad planning direction at the land use level for sustainable installation

development that supports mission and environmental requirements. Fort Benning is currently in the process of updating its 2011 Real Property Master Plan.

1.4 Purpose and Need

The purpose of the Proposed Action is to optimize facility management through reducing buildings and structures. As a result of ongoing Army force structure transformations and modernization efforts at Fort Benning (Section 1.2), facility utilization priorities have again changed requiring an up-to-date FRP list to define which facilities are identified for demolition for FY19-23. The Proposed Action is necessary to continue the Installation's ongoing FRP and support compliance with the US Army TRADOC's IFRP and more recent Army strategies (DoA, 2016a and b). Implementing the Proposed Action would facilitate the identification/selection, demolition, and disposal of infrastructure considered obsolete/outdated, cost prohibitive to sustain, in excess of Army utilization needs, and in some cases contain potential human health and safety concerns. Other benefits include decreasing fixed facility costs (i.e., utilities and saving energy, reducing risks from structural deterioration, and making idle areas of an installation available for productive reuse. Upon completion of the FY19-23 FRP, Fort Benning will have eliminated more than two million square feet of space and made available millions of dollars in operations and maintenance funds for use in other areas annually.

1.5 Decision to Be Made

The Army decision to be made, supported by information contained in this EA, is whether to, and if so, how to implement the FY19-23 FRP at Fort Benning, GA or choose another alternative. The Action Alternatives entail the identification/selection, demolition, and disposal of buildings and other structures. This EA studies two Action Alternatives in detail, as described in Chapter 2, along with the No Action Alternative. The final decision of which Alternative to implement will be documented in either a FNSI, if no significant environmental impacts are expected, or a Notice of Intent (NOI) to prepare an EIS, if significant environmental impacts are expected to occur. A FNSI will identify the Army's Preferred Alternative and mitigation measures that are essential to the reduction of identified impacts.

1.6 Scope of the EA

The National Environmental Policy Act (NEPA) of 1969, as amended, requires federal agencies to consider environmental consequences in the decision-making process. This EA identifies, documents, and evaluates the potential environmental effects of the proposed implementation of the FY19-23 FRP at Fort Benning, GA in accordance with NEPA regulations issued by the President's CEQ (40 CFR Parts 1500-1508) and the Army's *Environmental Analysis of Army Actions* (32 CFR Part 651). These federal regulations establish the content, administrative process, and substantive scope of the environmental analysis to ensure that decision-makers have a proper understanding of the potential environmental consequences of a Proposed Action and reasonable alternative options along with associated mitigation. At its essence, the EA's analysis is an evaluation (qualitatively) and/or measurement (quantitatively) of the environmental and socioeconomic effects anticipated resulting from the decision to be made. Under NEPA, this analysis of environmental and socioeconomic conditions only addresses those geographic

locations, or region of influence (ROI), and environmental resources with the potential to be affected by the Proposed Action. Environmental resources and locations beyond the possibility of being affected by the Proposed Action are not analyzed. Consequently, the ROI, which includes all areas and lands with the potential to be affected, may vary between environmental resources.

The Army's NEPA regulation (32 CFR 651) warrants that the environmental analysis presented is proportionate to the nature and scope of the action, the complexity and level of anticipated effects on environmental resources, and the capacity of Army decisions to influence those effects in a productive, meaningful way from the standpoint of environmental quality. This EA analyzes both a) infrastructure previously analyzed within preceding Fort Benning IFRP EAs and/or RECs and b) infrastructure more recently added to the FRP list and not analyzed in previous NEPA documents. Although the EA incorporates, wherein possible, by reference the analysis of the previous Fort Benning IFRP EAs (Section 1.2), time and changing environmental conditions merit that infrastructure previously analyzed, but yet to be demolished, is re-analyzed herein. Furthermore, infrastructure previously analyzed within preceding Fort Benning IFRP EAs but absent from the current FY19-23 FRP list (Appendix A) would require being evaluated on a case-by-case basis prior to demolition to determine if the prior NEPA analysis remains appropriate or if additional NEPA documentation is required.

Project footprints, demolition activities, and timeframes for each of the Alternatives have been identified to the fullest extent possible at this time. As mentioned, the FRP is dynamic in nature with infrastructure being added to or removed from the proposed demolition list and ensuing demolition executed on the basis of evolving mission demands, utilization priorities, and available funding. Relocation of personnel, supplies, and/or equipment may include renovations and/or adaptive reuse of existing structures. Details of involving relocation and renovation are uncertain at this time; therefore, those type of future actions will be subject to separate NEPA documentation as required.

In the absence of specific information, the EA's analysis conservatively estimates the environmental effects of the Proposed Action and addresses potential broad-level environmental impacts. This EA serves as a foundation for the NEPA process for each facility identified in the FRP list (Appendix A). Unless unforeseen changes occur to the environmental conditions, pertaining to the buildings and structures described by this EA, a Record of Environmental Consideration could be tiered from this EA to complete the NEPA documentation. If a facility has circumstances not covered by this EA, those circumstance would be handled in accordance with applicable regulations and policy before the facility would be demolished.

1.7 Public Involvement

Fort Benning invites public participation in their Federal decision-making through the NEPA process as required by CEQ and Army NEPA Regulations. Consideration of the views and information of all interested persons promotes open communication, provides additional information and public concerns to decision-makers, and enables better decision making. The Notice of Availability (NOA) was posted in the Columbus Ledger-Enquirer, The Journal, and Benning News (online) in accordance with the Army NEPA Regulation. The EA and Draft FNSI

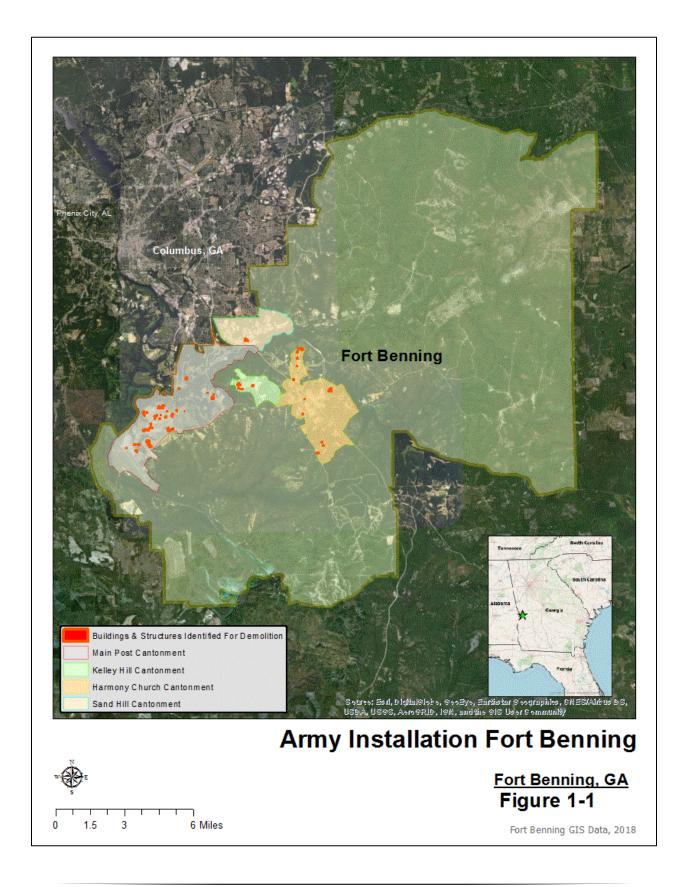
(Appendix C) were distributed to individuals and organizations on the distribution list in Chapter 8.0 for a 30-day public comment period from June 21 – July 23, 2018. These documents are also available at several local libraries and are posted on the Fort Benning website (<u>http://www.benning.army.mil/Garrison/DPW/EMD/Legal.html</u>).Written comments must be received by July 24, 2018 to ensure consideration prior to reaching any decision.

Written comments should be forwarded to:

Fort Benning Environmental Management Division Attn.: NEPA Program Manager 6650 Meloy Drive Building 6, Room 309 Fort Benning, GA 31905-5122

Electronic comments should be submitted to the NEPA Program Manager: Mr. John Brown (john.e.brown12.civ@mail.mil).

The CEQ and Army NEPA regulations also require that an EA provides evidence through analysis to determine whether the Proposed Action might have significant adverse effects on the environment. Based on evidence and analyses presented within this EA and with consideration given to public and agency comments, the Army will make a determination as to whether implementation of the Proposed Action or Alternatives would have significant effects on the environment. If it is determined that the Proposed Action or Alternatives would have significant, adverse effects, a NOI to prepare an EIS may be issued. If it is determined that the Proposed Action would not have significant adverse effects, the Army may select an Alternative for implementation.



2 DESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES

2.1 Introduction

This section describes the Proposed Action, the Alternatives Screening Criteria, and proposed Alternatives used in the development of the EA. The No Action Alternative, as required by NEPA (40 CFR 1502.14[d]), is described to provide a benchmark for comparison of the environmental impacts of other alternatives.

2.2 Proposed Action

The Proposed Action is to implement the FY19-23 FRP at Fort Benning, GA. Implementation of the FRP could demolish, dispose, and remove from Real Property inventories approximately 150 buildings and structures equaling more than two million square feet. This tentative goal would occur over the next five years at various locations across Fort Benning's cantonment areas for an estimated cost of \$18 million (Figure 2-1). Ancillary structures such as boiler room equipment, storage tanks, foundations, and the piping and infrastructure that serve buildings and structures would also be removed as part of the Proposed Action. The demolition actions would be accomplished primarily by contract and include the demolition and disposal of hazardous and nonhazardous material from the Installation.

Relocation of personnel, supplies, and/or equipment may include renovations and/or adaptive reuse of existing structures. Details of relocation and renovation are uncertain at this time, and those types of future actions will be subject to appropriate NEPA documentation as required.

The types of facilities that would be demolished vary generally categorized as either maintenance, administrative/operational, training, and other facilities. Funding for the demolition and disposal of buildings and structures identified in this EA is anticipated to be made available over the next five years; FY19 to FY23. Fort Benning will prioritize the order in which the buildings and structures are demolished based on varying factors that may include but are not limited to utilization and occupancy, structural condition, completion of historic building mitigation, hazardous material abatement, etc. Coordination among Fort Benning's Directorates would occur to curtail any potential nuisances concerning traffic flow and/or road infrastructure. The demolition and removal of buildings and structures identified would return the sites to open space or a more natural green space where possible. Appendix A provides an inventory of facilities affected by this proposal and reflects planning and decision making status as of March 2018. This information is subject to change based on funding and operational requirements.

The Army has traditionally removed buildings and structures from its real property inventory through conventional demolition and landfilling of the disposal debris; with little if any salvageable material reused or recycled. Installations often face diminishing landfill capacities and the landfilling of recyclable building materials represents a costly waste of natural resources. Consequently, deconstruction and the diversion of landfill debris has become an option the Army continues to explore. Deconstruction is the disassembly of building components specifically for re-use, repurposing, recycling, and waste stream reduction. Although it's the Army's intent to

manage waste with the goal of Net Zero waste disposal in landfills, DoD Issuance (DoDI) 4715.23 and the DoD Strategic Sustainability Performance Plan has a goal to divert a minimum of 60 percent of construction and demolition debris from the waste stream (US Army, 2014a). Therefore, the Proposed Action includes the deconstruction and salvage, where possible, rather than focusing only on conventional demolition.

As noted in the USACE's Engineer Construction Bulletin 2015-19, not every building or structure slated for demolition is suited for deconstruction. This could be due to its disrepair or condition, construction type and materials, the presence of contamination, and/or the efforts to recover the materials may greatly exceed its market or reuse value. Since deconstructed infrastructure seldom yields 100 percent reusable components or recyclable materials, this EA generally assumes for analysis purposes that every building and structure on the FPR list will generate some reusable components, recyclable materials, and also require some disposal of waste. Under the FY19-23 FRP, each individual project's unique design will determine the extent of potential deconstruction efforts with the goal to divert a minimum of 60 percent of debris from the waste stream. How Fort Benning accomplishes the deconstruction activity may vary but options include:

- Fort Benning contracting the deconstruction work and retaining ownership of the salvaged materials;
- The contractor receiving salvaged materials as in-kind payment in exchange for a reduced contract cost;
- The deconstruction contractor retaining all salvaged material and charged a price based on the revenues to be received from resale of the materials; or
- A nonprofit contractor performing the deconstruction and Fort Benning, in effect, donating the salvaged material to the nonprofit organization.

2.3 Alternatives Screening Criteria

Fort Benning developed a screening criteria to measure which alternatives are reasonable for further analysis. Any alternatives that failed to meet the criteria were eliminated from full consideration within this EA. Alternatives proposed must:

- Comply with the Army TRADOC's IFRP and Army directives instructing optimized facility management through footprint reduction efforts (DoD, 2016a and b);
- Be economically feasible (e.g., facility conversion or extensive renovation and reuse of buildings and structures on the FRP list would be less cost effective than new construction/replacement or use of other facility); and
- Be consistent with Installation master planning and support mission requirements.

2.4 Alternatives Proposed

This section describes the three alternatives carried forward for analysis in this EA. Alternatives proposed include the No Action Alternative and two Action Alternatives.

2.4.1 No Action Alternative

Under the No Action Alternative, Fort Benning would continue to utilize or maintain approximately 150 building and structures considered cost prohibitive to sustain, in excess of Army utilization needs, and in some cases may contain potential human health and safety concerns associated with older and ageing infrastructure (e.g., lead based paints (LBPs), asbestos containing materials (ACMs), and/or structural deterioration). Occupied buildings would continue to incur excessive maintenance costs until new replacement facilities can be afforded to relocate current occupying activities and personnel. Currently utilized and unoccupied or abandoned buildings or structures would be demolished only as new projects requiring their removal are scheduled in the future. Note that the No Action Alternative does not meet the purpose and need for the Proposed Action but provides a baseline for comparison of other alternatives.

2.4.2 Alternative 1: Full Demolition

Under Alternative 1, Fort Benning would continue its implementation of the FY19-23 FRP by demolishing all of the structures identified in the FRP's proposed demolition list (Appendix A). Full demolition would preclude the expenditure of excessive maintenance and adaptive reuse/renovation costs associated with the utilization of older facilities. Personnel and activities currently occupying facilities to be demolished would relocate to available facilities. Demolished buildings and structures would become open space and in most circumstances the area would be available to be utilized in future projects.

2.4.3 Alternative 2: Selective Demolition

Alternative 2 is similar to Alternative 1; however, Fort Benning would retain the 17 historic buildings identified on the FRP's proposed demolition list. The 17 historic structures either are eligible or considered eligible for listing on the National Register of Historic Places per the National Historic Preservation Act; therefore reuse must be considered prior to demolition. Fort Benning would implement the FY19-23 FRP by demolishing approximately 133 buildings and other structures and continue utilizing the historic structures as best as possible. As outlined in Appendix B, a considerable expenditure of funds to utilize and maintain the historic buildings would continue and many of these facilities would need adaptive reuse and other substantial renovations to sustain adequate and safe working conditions as they continue to age.

2.5 Alternatives Considered but Eliminated from Full Study

The following alternatives were considered but eliminated from further analysis during the development of this EA since none comply with the US Army TRADOC's IFRP and Army directives to optimize facility management through footprint reduction efforts nor are considered practicable economically. Other limitations of the alternatives eliminated from full study include their inability to apply to many facilities on the FRP list. For example, renovation, reuse, or conversion would not be applicable to some structures such as remaining concrete foundations and other components of former training equipment.

2.5.1 Renovation and Reuse of Historic Buildings on the FRP List

Renovation and reuse of only historic buildings on the FRP list was not carried forward for analysis as it would not comply with the US Army TRADOC's IFRP and more recent Army directives instructing optimized facility management through footprint reduction efforts. As well, renovation and reuse of the historic buildings identified in the FRP would entail an immense number of upgrades to meet current facility standards of each building's present use. Upgrade considerations would include the probable need for new mechanical, electrical, heating, air conditioning, life safety systems and the inclusion of other systems that are needed to support the selected reuse of the facility. When compared to the cost of demolition, renovation is not economically practical. Appendix B provides an economic analysis report containing cost estimates on renovation and reuse for each historic building listed the FRP. Consequently, this was not considered to be a reasonable alternative.

2.5.2 Conversion of Historic Buildings on the FRP List

As defined by Army Real Property regulations, Installation facilities are assigned Category Codes based on the functional use (Army Regulation 405-45). The conversion of Army buildings for an alternate use would require a change from an existing facility code to a different facility code that reflects the newly assigned functional use. Prior to the conversion of a facility for an alternate use, the building would require renovation and upgrades to meet the facility standards. As mentioned, renovation/reuse considerations include the probable need for new mechanical, electrical, heating, air conditioning, life safety systems, etc. Only after renovation was completed would the facility be converted to meet its new functional use. Similar to the renovation and reuse of buildings, conversion of a buildings use would not be economically practical and also was not considered to be an alternative that warrants further study. See Appendix B for economic analysis and estimated conversion costs.

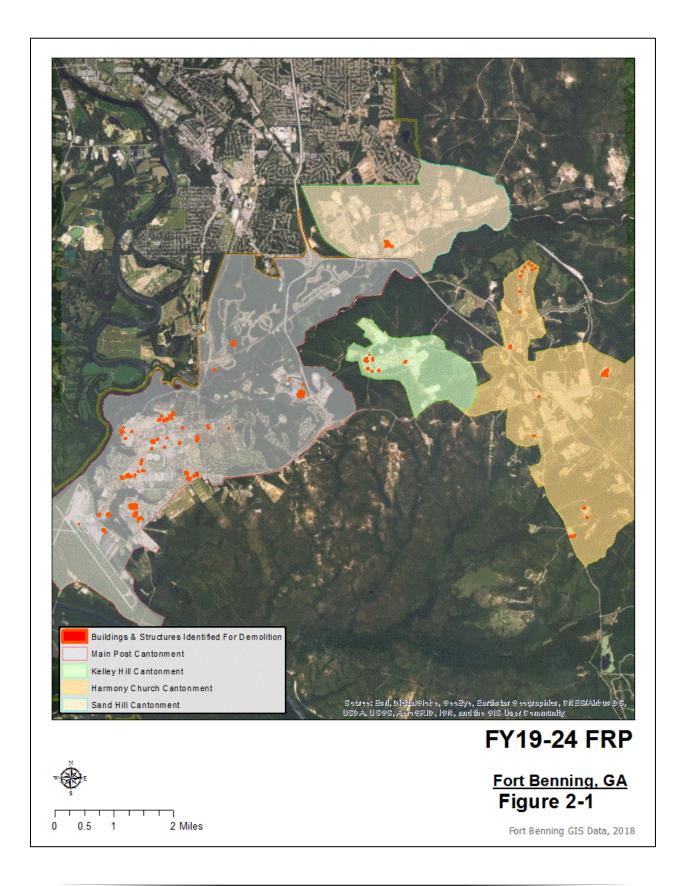
2.5.3 Mothballing of Historic Buildings for Future Use

The Alternative would include the mothballing or placing in caretaker status the historic buildings listed within the FRP. Mothballing refers to the process and non-operating condition associated with both securing and preserving real property and its features for "de-activation" and potential future renovation and reuse. Renovation and reuse of historic buildings are previously described in Section 2.5.1 and does not include the additional costs of ongoing utility services and maintenance associated with the mothballing period until future reuse decisions are made. Based on the costs of de-activation, utility and maintenance costs, and economic impracticability for indefinite reuse of facilities (Appendix B); this action was not considered a reasonable alternative that warrants further study.

2.5.4 Sale and Relocation of Buildings or Structures Off-Post

An additional Alternative eliminated from further analysis includes the sale of an entire building or structure for its relocation and potential reassembly off-Post. Once common practice among installations, the coordination and time required to sale and transfer whole buildings and structures is often an involved and lengthy process; from market to sale. Other common challenges and delays involve the buyer's expertise to safely salvage an entire facility and the

preparation of building components for transportation to avoid obstacles along the transportation routes. Accordingly, deconstruction (described in Section 2.2) provides many of the same benefits as sale and relocation off-Post but with a more streamlined process utilizing the experience and expertise of qualified contractors.



3 AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES

3.1 Introduction

Chapter 3 describes the affected environment and the potential environmental consequences as a result of implementing the Proposed Action. The affected environment portrays the current environmental setting at Fort Benning and forms a reference for analyzing and understanding the intensity of potential environmental impacts for each alternative.

Environmental consequences are characterized by their duration (i.e., short-term or long-term) and by the nature of their effects as being direct, indirect, and/or cumulative. The CEQ defines direct effects as those that are caused by the Proposed Action and occur at the same time and place; indirect effects are caused later in time or farther removed in distance but still reasonably foreseeable; cumulative effects are incremental impacts of the Alternatives when added to other past, present, and reasonably foreseeable future actions (40 CFR Part 1508.7-8).

The affected environment and environmental consequences are described in each section as it applies to valued environmental components (VECs). VECs are fundamental elements of the physical, biological, or economic environment, and include air, water, soil, terrain, vegetation, wildlife, fish, birds and land use that may be affected by a proposed project. Each VEC also has a defined ROI to describe the geographic extent or area that potential impacts could occur as a result of the Proposed Action.

Based on the results of the environmental analyses, this EA identifies whether a particular potential effect would be adverse or beneficial and to what extent. The following terms are used throughout this EA as a convention to indicate the relative degree of severity of potential impacts:

- **Beneficial**. A positive environmental impact.
- Adverse. A negative environmental impact.
- **Negligible**. An environmental impact that could occur but the effects would be less than minor and possibly imperceptible.
- Minor. An environmental impact that clearly would not be significant.
- **Moderate**. An environmental impact that is not significant but is readily apparent. Instances include actions where the potential consequences of the Proposed Action requires additional precautionary measures in following standard procedures to minimize adverse effects.
- **Significant**. An environmental impact which violates or exceeds regulatory or policy standards or exceeds the identified threshold. A significant impact may; however, be mitigated to less than significant.

A significance threshold is the stated level at which an impact is determined to become significant. Quantitative and qualitative analyses have been used in determining whether a threshold would be exceeded. Significance thresholds are also described for each VEC in the

discussions regarding environmental consequences. Thresholds have been developed in consideration of CEQ's guidance for determining significance (40 CFR Part 1508.27).

3.2 VECs

Army Environmental Command's NEPA Analysis Guidance Manual provides information on identifying VECs, which are those environmental resources that are considered to be important by society and potentially at risk from human activities or natural hazards. After consideration of the anticipated impacts associated with the proposed alternatives and information gathered during the EA's development, the following VECs were selected to be carried forward for detailed analysis in this EA:

- Air Quality
- Biological Resources
- Cultural Resources
- Hazardous Materials and Waste
- Land Use
- Noise
- Soils
- Utilities
- Water Resources

3.2.1 VECs Not Carried Forward for Analysis

In an effort to focus on relevant environmental analysis and issues, the CEQ encourages concentrating on relevant environmental analysis in EA. Similarly, CFR 200-1 §651.14 promotes minimizing unnecessary analysis and discussion of minor issues that have little or no measurable environmental effect. Of the VECs considered, three were dismissed from full analysis as there is no potential for the Proposed Action or Alternatives to have impacts to them. These include Airspace, Socioeconomics and Environmental Justice, and Traffic and Transportation.

Airspace

There would be no effects to Airspace under the Proposed Action. Demolition activities would not affect the current Airspace designations and all flights and associated activities would occur on other parts of the Installation. Therefore, no further discussion of Airspace is warranted in this EA.

Socioeconomics and Environmental Justice

The Proposed Action would have limited beneficial effect on the local economy but only short-term during demolition. This includes the potential for additional jobs and subsequent increased local spending by the workforce. None of the Action Alternatives would induce long-term population growth within the Installation or the surrounding communities, nor have an adverse effect on housing. The effects on socioeconomics from this proposed action would be negligible. Therefore, socioeconomics have been eliminated from further discussion in this EA.

Executive Order (EO) 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low Income Populations, directs each federal agency to "make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low income populations." As the Proposed Action is limited to Fort Benning, there would be no effects to minority or lowincome populations. Therefore, there are no effects to environmental justice issues and are not further discussed in this EA.

Children may suffer disproportionately, more so than adults, due to physiological and behavioral differences from environmental health risks and safety risks. EO 13045, Protection of Children from Environmental Health Risks and Safety Risks, requires Federal agencies to identify disproportionately high and adverse impacts to children. The intent of EO 13045 was to prioritize the identification and assessment of environmental health and safety risks that may affect children, and to ensure that federal agencies' policies, programs, activities, and standards address these environmental and safety risks to children. The potential of the Proposed Action to cause environmental and safety risks to children is negligible. All demolition activities areas would be carefully monitored and controlled for only authorized access, (e.g., construction workers, project managers, mitigation monitors, etc.); therefore, no effects to children would occur.

Traffic and Transportation

Only the Main Post Cantonment Area routinely experiences some minor traffic congestion, which is limited to peak traffic periods. No road closures are anticipated as a result of the Proposed Action. Although a slight increase in traffic flow could occur nearby facilities and structures to be demolished as a result of transporting equipment and vehicles, the overall level of Installation-wide traffic would still remain similar to current levels. Demolition design and coordination with Fort Benning's Directorate of Public Safety would assist in identifying problematic areas and further minimize issues involving traffic flow and/or road infrastructure. Overall, the Proposed Action's impact on Traffic and Transportation would result only in negligible effects. Therefore, no further discussion regarding the potential effects to traffic and transportation is warranted in this EA.

3.3 Air Quality

The quality of air in a given location is generally described by the concentrations of various pollutants in the atmosphere. The Clean Air Act (CAA) (42 USC 7401–7671q), as amended, gives the US Environmental Protection Agency (EPA) the responsibility to establish acceptable Air Quality standards to protect public health and welfare, including the National Ambient Air Quality Standards (NAAQS) that determine acceptable concentration levels for six criteria pollutants. These pollutants include: carbon monoxide (CO), sulfur dioxide (SO₂), particulate matter (PM₁₀ or PM_{2.5}), ozone (O₃), nitrogen dioxide (NO₂) and lead (Pb). A region with Air Quality better than the NAAQS is designated as being in attainment; areas with substandard Air Quality are classified as nonattainment areas. A nonattainment designation generally is given to a region if the primary NAAQS for any criteria pollutant are exceeded at any point in the region for more than three days during a three year period.

3.3.1 Affected Environment

The ROI for Air Quality encompasses Fort Benning and the multi-county region including Muscogee, Chattahoochee, Harris, Talbot, and Marion Counties of GA and Russell and Lee Counties of Alabama (AL). The buildings and structures identified with the FY19-23 FRP exist inside the Installation's cantonment areas as part of the ROI and within the State of GA. The EPA Region 4, the AL Department of Environmental Management, and the GA Department of Natural Resources regulate Air Quality within this airshed and on Fort Benning. This region has been classified by the EPA as an attainment area for all criteria pollutants; therefore, general conformity Air Quality regulations do not apply to federal actions within this region and is not discussed further in this EA.

3.3.1.1 Title V Permit

Fort Benning is designated as a major stationary source of air pollutants and operates under a CAA Title V Operating Permit (No. 9711-215-0021-V-03-0). The latest Title V permit was issued in March 2014 and is in effect for five years. The permit includes a list of emission sources, applicable regulations, emissions limits, and monitoring and record-keeping requirements. The permit is modified on a routine basis to account for the addition or removal of stationary and area pollutant sources.

Fort Benning currently has 11 boilers firing natural gas or liquefied petroleum gas that are greater than 10 million British thermal units per hour (MMBtu/Hr), and hundreds of smaller boilers or heaters. Three substantial air emission boilers, H008 (36 MMBtu/Hr), H010 (16.8 MMBtu/Hr), and H011 (16.8 MMBtu/Hr), and two 1035 kilowatt diesel generators are associated with the former Martin Army Hospital (Buildings 9200 and 9202), which is on the FRP's proposed demolition list. Also, 19 boilers, each less than five MMBtu/Hr, five generators, and an estimated 36 refrigerant (difluoromonochloromethane or R-22) containing units accompany other buildings proposed for demolition. Since the Proposed Action does not involve the construction of new facilities or addition of new generators or boilers, no new emission sources would be added to the Title V Operating Permit.

3.3.1.2 Fugitive Dust

Fugitive dust refers to particulate matter suspended in the air from any source other than a stack, vent, or chimney. Common sources capable of generating fugitive dust include earth-moving activities, construction/demolition activities, disturbed surface areas, and vehicular movement. The State of GA requires compliance with its Fugitive Dust Rule (Rule 391-3-1-.02[n]), which stipulates the use of reasonable precautions (e.g., application of water, paving roads, covering truck beds transporting dusty materials, etc.) to prevent fugitive dust from becoming airborne and that fugitive dust opacity remain below 20 percent.

3.3.1.3 Prescribed Fire

Fort Benning also generates emissions from prescribed fire activities as part of its ongoing ecosystem management program, as the area is historically a fire-based ecosystem. Prescribed burning is the largest single source of criteria pollutant emissions on the Installation (US Army,

2013). It is also a critical management tool for fire-dependent natural communities, Red-cockaded Woodpecker (RCW) habitat, and training area management.

The GA and AL Forestry Commissions administer each state's Smoke Management Plan, which details the basic framework of procedures and requirements for managing smoke from prescribed fires. The goal of each Smoke Management Plan is to minimize the public health and environmental impacts of smoke intrusion into populated areas from fires, avoid significant deterioration of Air Quality and potential CAA violations, and avoid visibility impacts in Class I prevention of significant deterioration (PSD) areas (US Army, 2013). The closest PSD Class I areas are the Sipsey Wilderness Area, AL, as well as Cohotta, Wolf Island, and Okefenokee Wilderness Areas, GA. All of these Class I areas are located more than 200 miles away, and unlikely to be affected by emissions generated at Fort Benning. Therefore, PSD is not further considered in this EA.

3.3.1.4 Greenhouse Gases

Routine societal and developmental activities such as fuel combustion, deforestation, and other changes in land use, have the potential to result in the accumulation of trace greenhouse gases (GHGs), in the atmosphere. GHGs include water vapor, CO₂, methane, nitrous oxide, O₃, and several hydrocarbons and chlorofluorocarbons. An increase in GHG emissions is said to result in an increase in the earth's average surface temperature, which is commonly referred to as global warming. Global warming is expected, in turn, to affect weather patterns, the average sea level, ocean acidification, chemical reaction rates, and precipitation rates, all of which is commonly referred to as climate change.

Each GHG has an estimated global warming potential, which is a function of its atmospheric lifetime and its ability to absorb and radiate infrared energy emitted from the earth's surface. A gas's global warming potential provides a relative basis for calculating its carbon dioxide equivalent (CO₂e), which is a metric measure used to compare the emissions from various GHGs based on their global warming potential. CO₂ has a global warming potential of 1 and is therefore the standard to which all other GHGs are measured.

Water vapor is a naturally occurring GHG and accounts for the largest percentage of the greenhouse effect. Next to water vapor, CO_2 is the second-most abundant GHG. Uncontrolled CO_2 emissions from power plants, heating sources, and mobile sources are a function of the power rating of each source, the feedstock (fuel) consumed, and the source's net efficiency at converting the energy in the feedstock into other useful forms of energy (e.g., electricity, heat, etc.). Because CO_2 and the other GHGs are relatively stable and essentially uniformly mixed throughout atmosphere, the climatic impact of these emissions does not depend on the source location on the earth (i.e., regional climatic impacts/changes will be a function of global emissions).

Overall, federal agencies address emissions of GHGs by reporting and meeting reductions mandated in laws, EOs, and policies. The more recent include EO 13514, *Federal Leadership in Environmental, Energy, and Economic Performance*, of October 2009 and EO 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, January 2007,

which introduced GHG emissions management and improvements that address waste reduction and efficiency for the federal government. These executive orders were revoked in March 2015 with the publication of EO 13693, *Planning for Federal Sustainability in the Next Decade*, which retained the goal to maintain federal leadership in sustainability and GHG emissions.

EO 13783 of March 2017, *Promoting Energy Independence and Economic Growth* ordered the rescission of the August 2016 CEQ directive; *Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in National Environmental Policy Act Reviews*. As a result, the requirement for analyzing the effects of GHGs resulting from a proposed action was eliminated. Nevertheless, EO 13783 did not remove the requirement for assessing a proposed action's potential impact to Air Quality; which includes GHGs as required under NEPA. Therefore, the effects of climate change are to be included and addressed to; furthermore, document an informed decision-making process was followed.

GHG emission sources at Fort Benning include vehicle use, boilers, chillers, water heaters, and emergency generators. The Proposed Action would reduce GHG emissions through demolition of older inefficient facilities and associated emission emitting infrastructure. Since there would not be an increase of GHG, this will not be evaluated further in this EA.

3.3.2 Environmental Consequences

Impacts to Air Quality would be considered significant if emission would increase ambient air pollution concentrations above the NAAQS.

3.3.2.1 No Action Alternative

Under the No Action Alternative, demolition and disposal of buildings and other facilities on the FRP list and as directed by the Army would not occur. There would be no reduction in facilities deemed inefficient and cost prohibitive to sustain, and no reduction in stationary emission sources identified within Fort Benning's CAA Title V Operating Permit. Existing emission levels would remain unchanged and the No Action Alternative would have a long term, minor impact on Air Quality.

3.3.2.2 Alternative 1: Full Demolition

The Proposed Action would result in increases in air emissions during demolition activities from work and vehicles onsite. All applicable federal and state Air Quality protection requirements would be implemented to mitigate any generation of fugitive dust due to minor earth disturbances. An increase in emissions and fugitive dust during demolition would be short-term, and would not result in an increase of criteria pollutants at Fort Benning or its surrounding area in the long-term.

Fort Benning would reassess the estimated annual emissions from all stationary sources (e.g., boilers, heating, ventilation, and air conditioning [HVAC], etc.), in the Installation's Title V permit following the demolition and disposal of each building and structure. As applicable, stationary source emissions estimated for each demolished facility would be removed from the

Title V permit and contribute to long-term beneficial effects to the existing emissions levels and the local and regional Air Quality. Upon completion of this Alternative, three substantial boilers (greater than 10 MMBtu/Hr) and 19 lesser boilers (less than five MMBtu/Hr), along with two 1035 kilowatt diesel generators, five generators of varying size, and 36 refrigerant (difluoromonochloromethane or R-22) containing units captured under the Title VI of the Clean Air Act would be removed..

During demolition activities, potential effects under Alternative 1 to Air Quality may include short-term, minor adverse impacts due to an increase in air emissions and fugitive dust. Also, long-term, beneficial impacts are anticipated for Air Quality resulting from a reduction of stationary source emissions and to the Installation's Title V Permit.

3.3.2.3 Alternative 2: Selective Demolition

Under Alternative 2, the Proposed Action would demolish 17 fewer buildings than Alternative 1. These historic buildings would be retained and adapted as necessary for use. Short-term, minor adverse impacts resulting from an increase in air emissions could occur onsite during demolition activities, but no increase of criteria pollutants at Fort Benning or its surrounding area are expected as a result of following federal and state Air Quality protection requirements. Stationary emission sources supporting each demolished facility would also be demolished and removed from the Title V Permit. Alternative 2 would result in a reduction to units captured under Title IV of the CAA by removing the same boilers, generators and refrigerant containing units as in Alternative 1. Overall, long-term beneficial impacts are also anticipated for Air Quality as a result of Alternative 2; although less advantageous than Alternative 1.

3.3.3 Mitigation

No mitigation measures other than following applicable laws and regulations are warranted for Air Quality.

3.4 Biological Resources

Biological Resources include native or naturalized plants and animals and the habitats in which they occur. The dominant plant species make up plant communities, which in turn define the vegetation of an area. Habitat is known as the area or environment where resources and conditions are present that allow a plant or animal to survive.

3.4.1 Affected Environment

The ROI for Biological Resources is the area contained within the boundaries of Fort Benning. Fort Benning manages and conserves its Biological Resources through its Integrated Natural Resources Management Plan (INRMP). All proposed actions on the Installation are considered for their potential effects through the NEPA process, and in accordance with various EOs, US Fish and Wildlife Service (USFWS) Biological Opinions, Memorandums of Understanding, and State and Federal Endangered Species Acts. Biological Resources discussed in this EA include Vegetation, Fish and Wildlife, Migratory Birds, and Threatened and Endangered Species, which could potentially be affected by demolition, disposal, or operational activities associated with the Alternatives.

3.4.1.1 Vegetation

According to Fort Benning's INRMP, there are more than 1,275 species of plants on Fort Benning located within approximately 29,000 acres of unforested areas and 150,000 acres of woodland. Loblolly and longleaf pine are the predominant conifers within the Installation, comprising approximately 80,000 acres of the woodland; the remaining 70,000 acres of woodland consist of approximately 15,000 acres of forested restricted access areas and 55,000 acres of hardwood forest (Fort Benning, 2015).

Fort Benning is located within the Longleaf Pine Ecosystem with vegetative cover distributed along two broadly defined ecological units or subsections; the Sand Hills and Upper Loam Hills. The northern portion of the Installation is part of the Sand Hills subsection characterized by well-drained soils and Longleaf pines (*Pinus palustris*). The Upper Loam Hills cover most of the southwestern area of Fort Benning and is characterized by heavier soils containing higher amounts of organic matter and increased water holding capacities. Natural vegetation is characterized as an Oak-hickory forest (e.g., Post Oak [*Quercus stellate*], White Oak [*Quercus alba*], Pignut Hickory [*Carya glabra*], Mockernut Hickory [*Carya tomentosa*]) (Fort Benning, 2015).

The undeveloped areas of Fort Benning generally consists of hardwood and pine trees, and are heavily wooded. The more developed cantonment areas consists primarily of hardwood tree species, decorative shrubs around buildings, and open grassed areas for green space and training facilities. The cantonment areas contain mature sycamore, oak, and other tree species lining many of the Installation's main streets and historic districts. The developed areas generally do not provide good habitat for wildlife. Development and human activity have forced native animal populations to less disturbed and less active areas of the Installation, such as training areas.

3.4.1.2 Wildlife

Fort Benning is inhabited by more than 350 species of fish and wildlife, including 154 species of birds, 47 species of mammals, 48 species of reptiles, 25 species of amphibians, 67 species of fish, and nine species of mussels, as well as numerous insect and other invertebrate species (Fort Benning, 2015). Commonly encountered animals include American alligators, turtles, water snakes, wading birds, migratory waterfowl, American beaver, white-tailed deer (*Odocoileus virginiana*), feral swine (*Sus scrofa*), eastern wild turkey (*Meleagris gallopavo*), eastern gray squirrel (*Sciurus carolinensis*), raccoon (*Procyon lotor*), rabbits (*Sylvilagus spp.*), other small mammals, and a wide variety of songbirds. Reptiles and amphibians found on the Installation includes eastern coachwhip (*Masticophis flagellum flagellum*), eastern diamondback rattlesnake (*Crotalus adamanteus*) Florida pinesnake (*Pituophis melanoleucus mugitus*), southern hognose snake (*Heterodon simus*), eastern tiger salamander (*Ambystoma tigrinum*), and other species of the Longleaf Pine Ecosystem (Fort Benning, 2015).

Fort Benning supports a high diversity of native freshwater fishes, including both game and nongame species. Native non-game fishes include many species of shiners, darters, shad, and minnows, as well as the southern brook lamprey (*Ichthyomyzon gagei*). Popular game fish species include: largemouth bass (*Micropterus salmoides*), bluegill (*Lepomis macrochirus*), redear or shellcracker (*Lepomis microlophis*), black crappie (*Pomoxis nigromaculatus*), channel catfish (*Ictalurus punctatus*), white bass (*Morone chrysops*), and hybrid white bass (*Morone chrysops saxatilis*) (Fort Benning 2014).

The Fort Benning region is rich in invertebrate biodiversity. Common insects in stream systems include larval and adult stages of stoneflies, mayflies, midges, and caddis flies. As well, a wide variety of crustaceans such as crayfish, mussels, isopods, snails, and amphipods occur within the regional habitat. Mussels in particular are sensitive indicators of water quality and ecological integrity. At least four mussel species of conservation concern occur within Uchee Creek in AL (Fort Benning 2014). Water bodies on Fort Benning commonly containing mussels include the Chattahoochee River, Victory Pond and Uchee, Cox, Shell, and Oswichee Creeks (Fort Benning, 2015).

Some of the species discussed herein provide outdoor recreational value in the form of hunting, fishing, and wildlife viewing. Management of these species includes ensuring adequate enforcement of hunting and fishing regulations. During training exercises, Fort Benning limits access for hunting and fishing inside the boundaries of the Installation because of safety and security concerns.

Due to their habitat preference and utilization of structural voids for roosting and/or propagation of young, bats may occur within the proposed demolition footprints. The Seminole bat (*Lasiurus seminolu*), southeastern myotis (*Myotis austroriparius*), and Brazilian free-tailed bat (*Tadarida brasiliensis*) are known to occur at Fort Benning and commonly make use of man-made structures. Building or structures would, however, be inspected for the presence of bats prior to demolition activities. In the event bats are detected within the building or structure, demolition could be delayed until the reproductive season has lapsed. Outside of the reproductive season, bats would be removed from the building using exclusion techniques, enabling the bats to relocate themselves prior to demolition. Since demolition would only occur to facilities without the presence of bats, bats and their management is not analyzed further beyond mitigation measures.

3.4.1.3 Migratory Birds

According to Fort Benning's INRMP there are approximately 150 species of birds protected under the Migratory Bird Treaty Act that may occur on Fort Benning either seasonally or year round. Most of these species are breeding residents or neotropical migrants for which the typical breeding season is spring through summer.

Section 315 of the 2003 National Defense Authorization Act provided that the Secretary of the Interior prescribe regulations to exempt the Armed Forces from the incidental taking of migratory birds during military readiness activities. Military readiness activity includes all training and operations of the Armed Forces that relate to combat. In accordance with 50 CFR

21.15 (Authorization Of Take Incidental To Military Readiness Activities), the regulation does not allow an installation to take migratory birds indiscriminately during readiness activities but requires that installations consider the protection of migratory birds when planning and executing military readiness activities. In addition, Fort Benning manages and conserves migratory bird species through its INRMP and considers effects to migratory birds in any proposed action via the NEPA process.

The Migratory Bird Treaty Act grants the Secretary of the Interior the authority to establish hunting seasons for species the USFWS has determined that hunting is appropriate; species for which there is a long tradition of hunting; and species for which hunting is consistent with their population status and long-term conservation. Two species of resident game birds at Fort Benning include the northern bobwhite quail (*Colinus virginianus*) and eastern wild turkey. Nineteen species of migratory game birds (at least 16 of which are waterfowl) include the mourning dove, common snipe (*Gallinago gallinago*), American woodcock (*Scolopax minor*), Canada goose (*Branta canadensis*), mallard duck (*Anas platyrhynchos*), wood duck (*Aix sponsa*), ring-necked duck (*Aythya collaris*), gadwall (*Anas strepaera*), American wigeon (*Anas americana*), northern pintail (*Anas acuta*), American black duck (*Aythya valisineria*), redhead (*Aythya americana*), bufflehead (*Bucephala albeola*), hooded merganser (*Lophodytes cucullatus*), northern shoveler (*Anas clypeata*), and lesser scaup (*Aythya affinins*) (Fort Benning, 2015).

3.4.1.4 Invasive Species

In 1999, EO 13112 began requiring federal agencies to prevent the introduction of invasive species; to provide for their control; and to minimize the economic, ecological, and human health impacts that invasive species cause.

Common invasive plant species identified on Fort Benning include the tree species of Chinese Tallowtree (*Triadica sebifera*) and Mimosa (*Albizia julibrissin*), and shrubs such as Chinese Privet (*Ligustrum sinense*) and Multiflora Rose (*Rosa multiflora*). Invasive vine species include Kudzu (*Pueraria montana var. lobata*) and English Ivy (*Hedera helix*). Invasive grasses include Cogongrass (*Imperata cylindrical*) and Japanese Knotweed (*Fallopia japonica*) (Fort Benning, 2015). All are extremely aggressive invaders with the capability of forming dense assemblages and/or extensive root systems that displaces native vegetation.

Fort Benning utilizes an integrated pest management approach to control invasive plant species. Integrated pest management involves using targeted, sustainable control methods that can include a variety of measures, such as habitat modification, biological control, mechanical control, physical control and the judicious use of pesticides. Specific procedures related to the control of invasive plant species are outlined in Fort Benning's Integrated Pest Management Plan (Fort Benning, 2013). The Proposed Action would occur within areas routinely maintained (e.g., mowed, sodded/seeded, weeded, pruned, etc.). The means used for the maintenance of the cantonment areas are largely effective in managing invasive species as well. Accordingly, invasive plants will not be discussed further in this EA.

Feral swine are widespread across the Installation and considered a pest species for many reasons. The primary concern is the extensive damage to vegetation and soil surfaces that occurs due to their characteristic "rooting" habits, which jeopardizes the establishment of ground cover and native vegetation. Other impacts of feral swine include direct mortality of pine and hardwood trees, competition with native wildlife species, habitat disturbance, and direct mortality of threatened and endangered species. Additionally, feral swine can also uproot and damage cables, wiring, targetry, bivouac sites, and other military assets. Fort Benning's management of this species focuses on controlling the population by establishing liberal hunting regulations such as no bag limits and expanded season lengths. In addition, trapping is conducted at specific locations to minimize damage to military assets and sensitive plants (USACE, 2009). Specific procedures related to the control of feral swine are outlined in Fort Benning's Integrated Pest Management Plan (Fort Benning, 2013). The presence of urban areas, communities, and control methods for feral swine are effective in maintaining and managing populations within Fort Benning's cantonment areas. The Proposed Action and Alternatives would only occur in developed areas and would not have an effect on feral swine. Therefore, feral swine will not be discussed further in this EA.

3.4.1.5 Endangered, Threatened, and Rare Species

As described in the INRMP, there are 96 species (four amphibians, eight birds, seven fishes, four mammals, four mussels, nine reptiles, and 60 plants) of conservation concern found on Fort Benning. Plant and animal species listed as threatened, endangered, or proposed as such by the USFWS, the State of GA or the State of AL are recognized as special-status species. The Endangered Species Act (ESA) only protects federally listed species. State listed species are protected in the State of GA by the GA Wildflower Preservation Act or GA's Endangered Wildlife Act. The State of AL likewise protects a number of species through the Nongame Species Regulation (AL Administrative Code 220-2-.92). Although state listed species are not protected by the ESA, they may be considered for federal listing in the future and may be afforded special management attention by Fort Benning.

Army Regulation (AR) 200-1 (Environmental Protection and Enhancement) guides Army compliance with the ESA. The regulation requires ESMCs for listed and proposed species and critical habitat, a 100 percent inventory of suitable habitat for listed and proposed species that may occur on the Installation, and an initial thorough inventory of plants, fish, wildlife, and habitats on the Installation lands. Five federally listed or candidate species occur on Fort Benning. These are the Red-cockaded Woodpecker (*Picoides borealis*) (Endangered), American Alligator (*Alligator mississippiensis*) (Threatened for similarity in appearance), Wood Stork (*Mycterian Americana*) (Endangered), Relict Trillium (*Trillium reliquum*) (Endangered), Georgia Rockcress (*Arabis Georgiana*) (Candidate), and Gopher Tortoise (*Gopherus polyphemus*) (Candidate). Accordingly, the Bald Eagle (*Haliaeetus leucocephalus*) has been delisted but remains protected under the Bald and Golden Eagle Protection Act (Fort Benning, 2014).

3.4.1.6 Unique Ecological Areas (UEAs)

Fort Benning has identified several areas that have unique or rare ecological characteristics or that represent the best example of a particular habitat or plant community type. UEAs were chosen based on characteristics of their soil type, topography, slope, aspect, elevation, hydrology, flora, fauna, and other biotic and abiotic features. Many areas apparently contain remnant native plant communities that have experienced minimal disturbance relative to other similar communities. To conserve the ecological integrity of these areas, Fort Benning will use their designation as UEAs to ensure that current and future land-use planning and training activities take into consideration their presence and their preservation. The Proposed Action and Alternatives would not occur within or have any effects on UEAs. Therefore, UEAs are not discussed further in this EA.

3.4.1.7 Habitat Conservation and Enhancement

The Sikes Act authorizes the Department of Defense (DoD) to partner with non-federal governments or private organizations to establish buffers around military installations. The Army implements this authority through the Army Compatible Use Buffer (ACUB) program, which provides funding for the Army to work with state and local governments, non-governmental organizations, and willing land owners to help prevent encroachment of training areas and promote regional conservation efforts.

Through Fort Benning's partnership with The Nature Conservancy, off-Post conservation measures both buffer the Installation boundary from land uses incompatible with military training and promotes land management to protect and restore habitat for listed, imperiled, or atrisk species that impact Fort Benning's mission. Properties enlisted under the ACUB program are either placed into conservation easements or purchased fee simple later those properties may be sold to conservation buyers and encumbered with permanent conservation easements. ACUB lands are not federally owned; the Army holds only a contingency right to ensure that training buffer and conservation purposes are met. As of 2018, the ACUB program at Fort Benning encompasses over 20,000 acres around Fort Benning with a goal of protecting up to 40,000 acres by 2020 (Fort Benning, 2015). The Proposed Action would not occur within or have any effects on Fort Benning's ACUB Plan. Therefore, these areas are not discussed further in this EA.

3.4.2 Environmental Consequences

Impacts would be considered significant if one of more of the following conditions would result:

- Substantial loss or degradation of habitat or ecosystem functions (natural features and processes) essential to the persistence of native plant and animal populations;
- Substantial loss or degradation of a sensitive habitat, including surface waters and UEAs that support high concentrations of special status species or migratory birds;
- Disruption of a federally listed species, its normal behavior patterns, or its habitat that substantially impedes the Installation's ability to either avoid jeopardy or conserve and recover the species; or
- Substantial loss of population or habitat for a state-protected species increasing the likelihood of federal listing action to protect the species in the future.

3.4.2.1 No Action Alternative

Under this alternative, no demolition and disposal of facilities and structures would occur. As well, no impacts to Biological Resources would be expected as a result of the No Action Alternative.

3.4.2.2 Alternative 1: Full Demolition

The Proposed Action has the potential to affect terrestrial wildlife through nominal displacement as a result of soil disturbance, removal of vegetation and possible habitat, vehicle traffic, and incidental human activity. Demolition activities would; however, be limited to individual project areas and adhere to applicable federal and state laws, regulations, and permit requirements. Following demolition, areas previously occupied by facilities and structures would be returned to open/green spaces.

No adverse effects to any federal or state-listed species, their habitat, or migratory birds are expected. Although vegetation removal is anticipated from demolition activity, these disturbances would occur within the project areas and be temporary resulting in negligible effects. Construction/demolition activities are the norm within and around cantonment areas. Demolition under the IFRP would occur over the next five year and would not occur within a concerted area. Demolition would be dispersed among developed cantonment areas, which generally do not contain exceptional habitat for most wildlife. Overall, GA National Pollutant Discharge Elimination System (NPDES) and Air Quality Rules for construction would preclude potential adverse effects to Biological Resources. Therefore, impacts to Biological Resources as a result of this Alternative are anticipated to be negligible.

3.4.2.3 Alternative 2: Selective Demolition

Alternative 2 would retain the 17 historic buildings identified on the FRP's proposed demolition list (Appendix A). Potential adverse impacts to Biological Resources resulting from the implementation of Alternative 2 would be the same as those described under Alternative 1. Therefore, impacts to Biological Resources as a result of this Alternative are anticipated to be negligible.

3.4.3 Mitigation

Mitigation measures for Biological Resources would include compliance with Federal and State erosion control measures and NPDES permitting requirements as further discussed in Section 3.8 (Soils). Additional mitigation would include inspecting buildings or structures for bats, as applicable, and excluded them prior to demolition activities. Other sound project practices to incorporate where possible include:

- Limiting disturbed areas through design as feasible;
- Site rehabilitation through the planting of native trees and sowing of other vegetation to more quickly establish green spaces, especially around storm water management structures;
- Employing tree protection devices at the sites of demolition.

3.5 Cultural Resources

Cultural Resources include archaeological sites, buildings, structures, objects, historic landscapes and districts, sacred sites, and properties of traditional religious and cultural importance. A historic property, as defined on the National Historic Preservation Act of 1966 (NHPA), is a Cultural Resource that is included or eligible for inclusion in the National Register of Historic Places (NRHP). Under Section 106 of the NHPA and its implementing regulations in Protection of Historic and Cultural Properties (36 CFR Part 800), federal agencies must take into account the effects of their undertakings on historic properties. These regulations require that federal agencies consult with the State Historic Preservation Office (SHPO) on their undertakings and that they afford the Advisory Council on Historic Preservation the opportunity to comment on their undertakings. Section 110 of the NHPA further requires federal agencies to assume responsibility for the identification and preservation of historic properties on land owned or controlled by the agency. Consultation with federally recognized Native American Tribes is required. Other laws and regulations also apply to Cultural Resources, such as the Native American Graves and Protection and Repatriation Act and the Archaeological Resource Protection Act.

3.5.1 Affected Environment

The ROI for Cultural Resources is the area within the Installation's boundary. Fort Benning's Cultural Resources include: archaeological sites, buildings, historic districts, and Native American resources.

3.5.1.1 History

The earliest settlers of the area were the Paleoindians who arrived between 14,000 and 11,500 years ago. By the 1790s, settlement by European and African descent began. For almost 80 years the area was intensively farmed under plantations and farmsteads until 1918 when Camp Benning was purchased for the establishment of a temporary 50-acre tent encampment. Camp Benning was selected as the new home for the US Army Infantry School of Arms; later renamed the US Army Infantry School. On 9 January 1922, Congress issued War Department General Order Number 1, authorizing the retention of Camp Benning as a permanent military post, and re-designating it as Fort Benning. Construction of Family housing, Soldiers' quarters, a hospital, athletic fields, and mess facilities occurred during the 1920s. By 1930, aviation activities had begun at Fort Benning and the Works Project Administration programs, created during the Great Depression, provided the impetus for construction of the first runways and hangars at Lawson Army Airfield, the first airstrip at Fort Benning.

The 1940s witnessed significant changes to Fort Benning as a result of World War II, the birth of the airborne infantry concept, and establishment of the Parachute School in 1942. As well, mobilization facilities were constructed over much of Fort Benning including two new cantonment areas known as Sand Hill and Harmony Church. Kelley Hill was added in the 1950s along with the establishment of several new units.

The escalation of the Vietnam Conflict transformed the US Army Infantry School's focus towards combined-arms training. The cessation of the military's involvement in Vietnam was

followed by the re-direction of the American military to an all-volunteer army. At Kelley Hill, the Modern Volunteer Army Program was initiated in 1973 with the 197th Infantry Brigade becoming the Army's first all-volunteer unit and first combined-arms team under the Strategic Army Forces concept. This was soon followed by the Army's announcement of Advanced Individual Training for infantry personnel, the addition of a major training complex on Sand Hill, and modernization of on-Post living facilities.

In 2005, Fort Benning was selected by the Base Realignment and Closure Commission (BRAC) to be the home of the new MCoE. The realignment consisted of a billions in renovation and construction to unify the Infantry School and Armor School, formerly located at Fort Knox, Kentucky, at a single location. This transformation was completed September 2011. Today, Fort Benning continues to train all Infantry, Armor, and Scout Soldiers in basic and advanced combat maneuver skills and remains a critical training venue that plays a pivotal role in supporting the Army's evolving mission.

3.5.1.2 Resource Management and Consultation

Management of Cultural Resources on Fort Benning is accomplished through the Installation's Integrated Cultural Resources Management Plan (ICRMP). Additionally, Fort Benning has adopted the Army Alternate Procedures (AAP) for implementing Section 106 NHPA consultation to improve efficiency in the Installation's Cultural Resources management. The Historic Properties Component (HPC) of the ICRMP: 1) provides Standard Operating Procedures (SOPs) for assessing the Proposed Action and the potential effects on the Installation's historic properties; 2) replaces the NHPA Section 106 procedures (Fort Benning, 2015); and 3) uses NEPA documentation to satisfy most consultation requirements with the Tribes and State Historical Preservation Offices.

Thirteen federally recognized Tribes are affiliated with the Fort Benning area. Consultations with the Tribes also follow AAP for compliance with Section 106 of the NHPA, and the consultation procedures prescribed within the HPC of the ICRMP. Under these procedures, Fort Benning holds consultation meetings with the federally recognized Tribes on a biannual, face-to-face basis; provides Tribes with copies of relevant documentation concerning existing and proposed actions (e.g., this EA); and solicits Tribal input into the Garrison Commander of Fort Benning's decision making. As part of an on-going process and dialogue, concerns expressed by the Tribes will be incorporated into the Federal decision-making process.

In the event mitigation is required as a result of an action, consultation with the appropriate SHPO and Tribes (i.e., stakeholders), as needed, will be conducted through the process required by NEPA. At this stage, all stakeholders can formally submit comments, and Fort Benning must take into account such comments prior to deciding how to proceed. It should be noted that Memoranda of Agreement between Fort Benning and other stakeholders are no longer used to document consultation and mitigation, instead NEPA documentation and the HPC process is used. Thus, a time-consuming effort normally found under NHPA regulations (36 CFR 800) has been streamlined, while appropriate coordination with stakeholders occurs. Only NHPA Section 106 is covered by the AAP. Other legal requirements such as the NAGPRA, Archaeological Resources Protection Act, NHPA Section 110, and other mandates are unaffected by the AAP.

Fort Benning's ICRMP will address compliance with these requirements. Informal contacts between Installation Cultural Resource Managers, SHPO staff, and Tribal representatives are maintained to ensure appropriate alternatives are explored and considered early in the process to achieve the highest level of historic preservation commensurate with mission requirements.

3.5.1.3 Site-specific Resources

The impact analysis for Cultural Resources focuses on the properties that are listed on or considered eligible for the NRHP, and properties that are considered to be contributing resources to a historic district. Under the NHPA, only Cultural Resources included in or eligible for inclusion on the NRHP, defined as 'historic properties', warrant consideration with regard to adverse impacts from a Proposed Action. Historic properties generally must be more than 50 years old to be considered for protection under the NHPA. To be considered eligible for the NRHP, Cultural Resources must meet one or more criteria as defined in 36 CFR 60.4. These criteria include association with an important event, association with a famous person, embodiment of the characteristics of an important period in history, or the ability to contribute to scientific research. Historic properties may be buildings, structures, historic districts, sites, or objects.

Fort Benning has two primary NRHP-eligible historic districts: Main Post and Lawson Army Airfield. These districts include more than 575 historic properties that are contributing to the districts, of which 15 buildings are individually eligible for listing. Riverside (Quarters 1) has been individually listed in the NRHP. Open spaces are a significant part of the Main Post Historic District and historically have set Fort Benning apart from other installations of this age and type.

Of approximately 150 building and structures identified for demolition on the FRP list, 17 are considered historic buildings (Figure 3-1). All but four of the historic buildings exist within the Main Post Historic District. Buildings 328 and 330 are located nearby the Main Post Historic District. Building 328 is considered independently eligible and Building 330 is a contributor to the Main Post Historic District's viewshed. Additionally, Building 319 is located within the Lawson Army Airfield District. Only Building 3716, located within the Sand Hill Cantonment Area, is not contained by or neighboring a historic district.

Since 2003, all of Fort Benning has been inventoried for archaeological Cultural Resources per section 110 of the National Historic Preservation Act (NHPA), with the exception of permanent dud areas (15,591 acres), inundated areas (683 acres) and areas where survey could not be completed due to live fire training schedules (2,469 acres). As a result of these surveys, 3,555 archaeological sites and 68 historic cemeteries have been recorded. 214 of these sites have been determined eligible for the National Register of Historic Places (NRHP) including Yuchi Town (1RU63) which is also designated as a National Historic Landmark. The NRHP eligibility status of 534 sites could not be determined at the Phase I survey level and will require Phase II testing as funding allows, or as required for an undertaking per section 106 of the NHPA. The remaining 2807 sites have been determined "not eligible" for inclusion in the NRHP. An additional 359 isolated artifact finds were previously given state site numbers, but do not qualify as archaeological sites under current standards (Ecks, M. personal communication, 2018).

There are no known archaeological sites or cemeteries located within or adjoining facilities or structures identified for demolition, and no Tribe has identified a property of traditional religious or cultural importance on Fort Benning managed lands. As there will be no effects to archaeological sites, cemeteries, or Tribal religious or Cultural Resources as a result of the Proposed Action or Alternatives. Therefore, these topics are not discussed further in this EA.

3.5.2 Environmental Consequences

Impacts to Cultural Resources would be considered significant if they meet one or more of the following criteria:

- The activity would cause irretrievable or irreversible damage to historic property and measures mitigating the adverse effect of the resource are not available and cannot be implemented;
- The activity would restrict access to a cultural resource of significance to the Tribes associated with the Fort Benning area without resolution through consultation.

Direct effects generally involve physical damage or destruction to all or part of a resource through ground-disturbing activities or deterioration or destruction of a resource brought about through neglect. Indirect effects generally result from alterations to the characteristics of the surrounding environment or setting that contribute to a resource's significance, and increased use of or access to an area containing historic properties.

3.5.2.1 No Action Alternative

Under the No Action Alternative, demolition and disposal of buildings and other structures on the FRP list as directed by the US Army would not occur. To avoid noncompliance with the NHPA and demolition by neglect, historic structures would continue to be repaired and maintained as a contributing element of the Fort Benning Historical Districts. In some instances, structural deterioration would continue to take place involving unoccupied or underutilized nonhistoric facilities or structures. Nonetheless, the No Action Alternative is not expected to result in impacts to Cultural Resources.

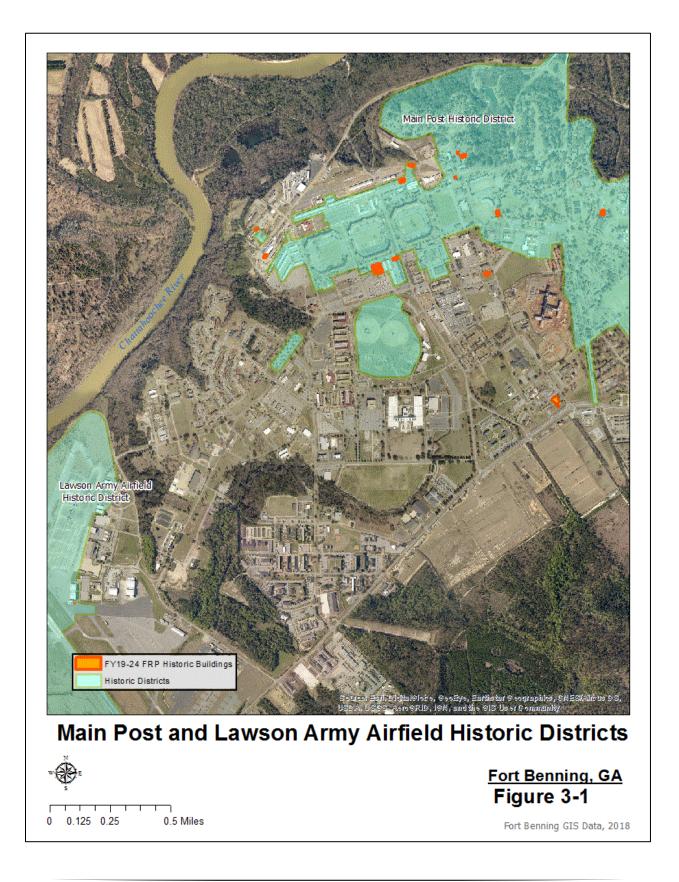
3.5.2.2 Alternative 1: Full Demolition

Under Alternative 1, Fort Benning would demolish and dispose of approximately 150 buildings and other structures including the demolition of 17 historic buildings that exists within or adjacent to one of Fort Benning's historic districts (Figure 3-1).

The demolition of historic buildings has the potential to result in adverse impacts to Cultural Resources. As well, the demolition and removal of buildings and structures, both historic and non-historic, within and near the boundary of Fort Benning's historic districts have the potential to adversely affect the viewshed of the Main Post and Lawson Army Airfield. Under Alternative 1, short-term, minor adverse impacts to the historic visual setting would be expected during demolition activities as a result of personnel, equipment, and partially demolished infrastructure within the project areas.

Following demolition and disposal, the removal of buildings and structures that are inconsistent with a historic district may enrich that district, whereas removal of contributing historic buildings or properties from a historic district may detract from that district. Similarly, removal may change the character of historical landscapes by disrupting or enhancing spatial relationships between other features (e.g., buildings, streetscapes, etc.). This, however, would not occur to the extent of changing the Main Post or Lawson Army Airfield's historic setting. Although returning demolition to open/green space could, in some instances, complement the surrounding historic landscapes, the overall adverse impact to Cultural Resources under this alternative could be significant without adequate mitigation. Implementing the required mitigation measures listed in section 3.6.2.4 will offset the adverse effect to the historic districts to a negligible level.

Earth-moving activities and the use of heavy equipment could potentially encounter previously undiscovered historic properties and prehistoric artifacts. The potential to discover artifacts is low as the project areas for demolition have previously been subjected to disturbance. Therefore, the Proposed Action would have negligible effects on undiscovered Cultural Resources. Nevertheless, if Cultural Resources are unexpectedly encountered during demolition, operations would cease in the immediate area of the discovery until the site is investigated by Fort Benning and necessary remedial actions are completed.



3.5.2.3 Alternative 2: Selective Demolition

Under Alternative 2, Fort Benning would demolish and dispose of approximately 133 buildings and other structures but continue to maintain and, where possible, utilize the 17 historic structures identified within the FRP list.

The demolition of building and structures would result in the temporary presence of personnel, equipment, and partially demolished infrastructure within the project areas. Some buildings and their project areas exist within or adjacent to Fort Benning's historic districts and have the potential to adversely affect the viewshed of the Main Post and Lawson Army Airfield Historic Districts. Removal of buildings, utilities, asphalt, and other items associated with the buildings and structures in a few instances could reduce intrusions and complement the surrounding historic landscapes as the properties would be returned to open/green space. As a result, the Proposed Action would not be expected to change the character of the physical features that contribute to its historic setting. Therefore, only short-term, minor adverse impacts to Cultural Resources would be expected during demolition activities.

Similar to what was described under Alternative 1, the Proposed Action has a low probability to discover artifacts as the project areas for demolition have previously been subjected to disturbance. Nevertheless, in the event cultural materials are unexpectedly encountered, operations would cease in the immediate area of the discovery until the site is investigated by Fort Benning and necessary remedial actions are completed.

3.5.3 Mitigation

Mitigation would include adhering to the HPC in place at Fort Benning. Through the HPC, this EA will be used for consultation between Fort Benning, the Tribes and the SHPO. Fort Benning would prepare a Historic American Building Survey (HABS) for each historic property, or other suitable mitigation, prior to its demolition and disposal. Adverse impacts to historic districts would be mitigated prior to demolition activities.

3.6 Hazardous Materials and Waste

Hazardous materials are comprised of any material or agent (biological, chemical, physical) that has the potential to cause harm to humans, animals, or the environment, either on its own or through interaction with other factors. Hazardous substances are defined and regulated in the US primarily by laws and regulations administered by the US Occupational Safety and Health Administration (OSHA), EPA, and the US Department of Transportation. Various state laws also regulate the management and disposal of Hazardous Materials and Waste. Army policy is to ensure that use, handling, and management of Hazardous Materials and Waste is in compliance with all applicable federal, state, or local laws and/or regulations. This section evaluates the use, handling and storage, transport, and disposal of Hazardous Materials and Waste at Fort Benning as a result of the Proposed Action.

3.6.1 Affected Environment

The ROI for Hazardous Materials and Waste includes the entirety of Fort Benning. Programs have been established at Fort Benning to:

- Control the entry of hazardous substances to the Installation;
- Safely manage hazardous waste and material handling and transportation within the Installation;
- Inform military and civilian employees of Hazardous Materials and Waste dangers;
- Minimize the risk of human exposure and release into the environment associated with these substances;
- Dispose of these substances in an environmentally sound manner when they are no longer useful.

3.6.1.1 Hazardous Materials Use, Handling, and Storage

Army Regulation 200-1 requires Army installations to minimize the use of hazardous materials, as well as establish management procedures to ensure proper handling throughout their life cycle including procurement, storage, use, and disposal. In addition, installations are required to implement a Hazardous Waste Management Plan to ensure that hazardous waste is managed in compliance with applicable laws and regulations. AR 200-1 also includes requirements for the management of toxic substances in a manner that minimizes human exposure and environmental risk.

Routine operations on Fort Benning require the use of a variety of hazardous materials, including petroleum products, solvents, cleaning agents, paints, adhesives, and other products necessary to perform vehicle and equipment maintenance, military training activities, and training area upkeep. Batteries, petroleum, oil, and lubricants (POL) are used to power both military and civilian equipment and vehicles, and pesticides are used to control plant and animal pests throughout the Installation. When not in use, these materials are generally stored at maintenance facilities in a cantonment area.

3.6.1.2 Solid Waste Management

Solid waste (that is not hazardous or toxic) at the Installation includes waste generated from Family housing, administrative areas, troop units, and contractors. Two separate solid waste haulers operate under contract on Fort Benning. All of Fort Benning's solid waste goes to a transfer station and then to permitted sanitary landfills located in Phenix City or Tallassee, AL. Both landfills have projected current and future capacity of more than 30 years (Fort Benning, 2017, Advanced Disposal, 2018)

Fort Benning's policy on recycling is governed by the October 2007, Policy Memorandum #200-1-8, entitled "Qualified Recycling Program." Under this policy, Army personnel and contractors are required to actively participate in the recycling program, and all of the proceeds from the program are retained by the Installation. One recycling center processes recyclable items from industrial work areas, barracks, and Family housing areas. Recyclable items include paper (approximately 420 tpy), cardboard (approximately 1,500 tpy), aluminum and scrap metal

June 2018

(approximately 3,000 tpy), glass (approximately 200 tpy), and plastic (approximately 100 tpy). Also, about 91 tons of tires, 92 tons of oil, and 300 tons of ammunition-related recycling (i.e., brass, links, shells, fuzeheads) are processed annually (Fort Benning, 2017).

Family housing waste is collected curb-side from housing units located on the Installation and generally consists of food wastes, metal, plastics, paper, glass, etc. Fort Benning has a recycling program in place as outlined in its Integrated Solid Waste Program.

Administration area waste is collected from various sized storage containers located on the Installation. Administration area waste generally consists of office paper products, food wastes (from mess halls and restaurants), and cardboard and cans from receiving, mess halls, motor pools, etc. Cardboard dumpsters for recycling are located near many offices, mess-halls, and motor pools. Recyclable material is collected from the recycling trailers, administration areas, and the cardboard dumpsters delivered to the Fort Benning Material Recovery Facility to be packaged and sold. Yard waste material consists of leaves, limbs, grass clippings, etc., and it is composted, mulched, and recycled as much as possible. Contractors and other users do not have permission to dispose of waste on Fort Benning. All construction and demolition wastes are taken off-Post by the contractor to a permitted recycling or disposal facility (Fort Benning, 2017).

3.6.1.3 Toxic Substances Management

Toxic substances that commonly occur on Army installations include asbestos-containing materials (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs), and radon.

Asbestos

Once a common ingredient in construction materials, asbestos is a group of naturally occurring fibrous minerals that has been linked to a variety of diseases. Asbestos is generally not harmful when encapsulated within building materials. ACM materials fall into two broad categories; friable and non-friable. Friable refers to ACM that can be rendered airborne by hand. Although non-friable ACM are not easily released into the air, they can become friable by disturbance (i.e., sanded, sawed, drilled, torn, etc.) and/or resulting from demolition or renovation activities (EPA, 2018).

Routinely, all Fort Benning facilities scheduled for maintenance, renovation, remodeling, and demolition are inspected for presence of ACM. When required by law (40 CFR 61.145) or as a precautionary measure, ACM is removed by licensed, specialized firms. Once removed, ACM is transported off the Installation by licensed transporters and disposed in appropriately permitted landfill facilities in accordance with applicable federal, state, local, and DoD regulations (USACE, 2009). Employer requirements for limiting employee exposure to asbestos, found in OSHA's standard for asbestos in construction (29 CFR 1926.1101), also apply to demolition where an employee may be occupationally exposed to asbestos through the disturbance of previously-installed construction materials.

Lead-based Paint

The likelihood for buildings constructed prior to 1978 to contain LBP/coatings is high. Several buildings and structures are known or suspected to contain LBP on the Installation, and the LBP in these areas is generally managed in-place in accordance with industry guidelines and practices (e.g., National Institute for Building Sciences) to minimize the potential for creation of respirable dust, direct contact with the LBP surfaces, and contamination of the surrounding environment.

Surfaces painted after the Consumer Product Safety Commission LBP ban (16 CFR 1303) went into effect may nonetheless contain traces of Pb at levels below the threshold defined by the ban and disturbance of such paint may potentially expose workers to Pb. Accordingly, all construction work, including demolition, where an employee may be occupationally exposed to any level of Pb through the disturbance of existing painted surfaces must comply with the OSHA Standard for Lead in Construction (29 CFR 1926.62).Fort Benning's LBP Management Plan addresses LBP risk assessment and disposal procedures for LBP, coatings, and LBPcontaminated soils. All construction contractors are required to follow plan procedures. The Proposed Action involves buildings and structures constructed prior to 1978 that are presumed to contain LBP/coatings (USACE, 2009).

Pesticides

US Army installations have managed pests for decades using pesticides. The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) mandates that the EPA regulates the use and sale of pesticides. Some of these chemicals historically used were banned under the FIFRA in the 1970s and 1980s; however, pesticide compounds often still endure within the environment today. Some of the most long-lasting and frequently used pesticides in the US that are now banned include organochlorinated insecticides more commonly known or branded as DDT (dichloro-diphenyltrichloroethane), heptachlor, endosulfan, chlordane, aldrin, dieldrin, and endrin. Since many of the buildings and structures proposed for demolition were constructed and maintained before such pesticides were banned, the pesticides could have been applied or stored within the facilities.

Polychlorinated Biphenyls

PCBs are highly stable organic chemical compounds with a low flammability (i.e., they do not readily burn), high-heat capacity, and low electrical conductivity. In the past, PCBs were extensively used as a component of many materials, most notably as heat insulating materials (e.g., hydraulic fluid in vehicles, lifts, elevators) and as dielectric fluids in electrical transformers and capacitors. Under the authority of the Toxic Substances Control Act (TSCA), the EPA banned the continued manufacture of PCBs after 1978. In addition, the EPA imposed controls related to existing PCB-containing electrical equipment that remain in use or that are removed from service for reuse or disposal.

In 1998, Fort Benning developed a PCB Inventory Report, which indicated that of the 2,157 transformers surveyed on the Installation, 1,166 were assumed to be PCB transformers (i.e., they contained equal to or greater than 500 parts-per-million PCBs). Also in 1998, Fort Benning developed a PCB Management Plan to formally establish the program for compliance with TSCA and other relevant regulatory requirements. Since the utilities privatization initiative was implemented in 1999, the ownership of the electrical distribution system, including most of the

PCB-containing electrical equipment on Fort Benning has been transferred to Flint Electric. One exception is the electrical system at Lawson Army Airfield, which continues to be government owned and managed by a contractor (USACE, 2009).

The non-federal owners of the electric system on the Installation are responsible for management of those systems, including any PCB spills (Fort Benning, 2004). The Proposed Action is anticipated to have no facility changes that would affect PCBs or their management; therefore, PCBs are not studied further.

Radon

Radon is a naturally occurring, colorless, odorless, radioactive gas produced by the decay of uranium in rock and soil. Radon is a known carcinogen, capable of causing direct damage to lung tissues and increasing the risk of lung cancer when inhaled. If present, radon gas will typically concentrate in airtight buildings and particularly in basements. Although no federal regulations define an acceptable level of radon exposure, the EPA recommends the voluntary, consensus-based mitigation of radon based on the standard developed and issued by the American Society for Testing and Materials (ASTM) International, Standard Practice for Installing Radon Mitigation Systems in Existing Low-Rise Residential Buildings, ASTM E-2121. The Army and EPA recommend an action level of 4 picocuries per liter (EPA, 2013).

The Army Policy for Radon as outlined in Army Regulation 200-1, Radon Policy Reduction Program, requires measurement of radon in newly constructed Army facilities and use of US Army Corps of Engineers (USACE) design criteria for radon reduction in new construction. Radon information provided by EPA, Region IV, and statistics maintained by the GA Environmental Protection Division suggest that radon is not an issue of concern in the region (USACE, 2009). The Proposed Action is anticipated to have no facility changes that would affect radon or its management; therefore, radon is not studied further.

3.6.1.4 Hazardous Waste Generation, Storage, and Disposal

A variety of operations across Fort Benning produce hazardous wastes. Common waste generated include various solvents; paints; antifreeze; aerosols; contaminated filters, rags and absorbents; weapon cleaning patches and sludges; and some items managed as universal wastes, such as used batteries and fluorescent light tubes.

The Fort Benning Environmental Management Division oversees the management of hazardous waste by assisting military units and activities that generate the waste. The Centralized Accumulation Areas and Satellite Accumulation Areas are maintained in various locations across the Installation to facilitate the collection of hazardous wastes and to ensure that the wastes are transported off of the Installation in accordance with applicable federal, state, and DoD regulations.

Hazardous wastes generated by Installation and tenant activities are collected and transferred to a central accumulation area where they may be accumulate for no longer than 90 days before being transported offsite for treatment or disposal since Fort Benning is classified as a Resource Conservation and Recovery Act (RCRA) Large Quantity Generator of Hazardous Waste. Fort

Benning arranges for the transport and disposal of its hazardous waste by appropriately licensed waste management and transportation companies through a Defense Logistics Agency contract.

Fort Benning trains workers, inspects approximately 200 waste accumulation areas annually, and provides program oversight for the disposal of approximately 200,000 pounds of hazardous and toxic waste generated each year (Fort Benning, 2006). Fort Benning currently operates under Corrective Action Permit Number HW-021(CA) and Facility I.D. No. GA3210020084. Also, Fort Benning manages compliance with the relevant regulations through its Hazardous Waste Management Plan.

3.6.1.5 Existing Contaminated Sites

Past resource and waste management practices at DoD facilities have resulted in the presence of toxic and hazardous waste contamination at some installations, including Fort Benning. In response, Fort Benning has undertaken mitigation and cleanup activities under its Installation Restoration Program to manage these sites, which are referred to as Solid Waste Management Units (SWMUs) (Fort Benning 2005a and b). The Fort Benning Environmental Management Division actively manages programs for addressing contaminated sites in compliance with RCRA and the National Oil and Hazardous Substances Pollution Contingency Plan.

These sites are designated either as 1) Operation and Maintenance, Army-SWMUs, which are being managed under the 2005 Fort Benning Environmental Action Plan (EAP) or as 2) Environmental Restoration, which are Army-SWMUs managed under 2005 Fort Benning Installation Action Plan (IAP). The cleanup activities initiated under the EAP are directed at contamination primarily resulting from current operations, and the contaminants of concern include POLs; trichloroethylene (TCE); metals; volatile organic compounds; pesticides; and leachate. The IAP is specifically focused on contamination resulting from past activities, and the contaminants of concern include gasoline (including its constituents, benzene, toluene, ethylbenzene, and xylenes), paint, TCE, and leachate. Both the EAP and the IAP have been developed through consultation and coordination with USAEC, EPA, GA Environmental Protection Division, and the public. Two active contaminated sites include the Closed Landfill No. Six and former Above Ground Storage Tank (Pump House and Dispenser System) are located in the Fort Benning training areas. Neither of the contaminated sites is located within or nearby the Fort Benning cantonment areas.

Consistent with DoD policy, it is Fort Benning's policy to include a review process to identify any involvement of known or potentially contaminated sites that may be affected by proposed construction to prevent the spread of any contamination and to ensure that construction workers and personnel who use the project areas are not exposed to unsafe conditions. SMWUs that need corrective action have been identified, surveyed, and are reviewed by Fort Benning, prior to any proposed construction projects. Those sites requiring corrective action have recorded land use controls that allow the project planners and engineers to evaluate the nature of the contamination and take proper action to prevent the spread of contaminants to the environment or expose personnel as a result of proposed construction. The nature of exposure protection includes the potential for subsurface vapor intrusion below buildings. For locations where contamination has occurred in the past but a determination of No Further Action has been made, this determination

is based upon the documentation that all contaminant exposure avenues have been identified and that all exposure levels of any contaminants are below all EPA and GA Environmental Protection Division screening levels, and no protective measures or additional clean-up or land use controls are necessary.

3.6.2 Environmental Consequences

Potential impacts of the No Action Alternative and the Action Alternatives have been assessed with regard to changes in the volume of Hazardous Materials and Waste managed by the Installation. An Alternative would be considered to have a significant adverse impact if:

- It resulted in noncompliance with applicable local, state, and federal regulations;
- Increased the amount of hazardous waste generated or procured beyond the waste management capacity of the Installation;
- Contaminated sites are disturbed causing adverse effects on ecological and human health by creating exposure pathways; or if
- Established management policies, procedures, and handling capacities for fuel management could not accommodate the activities associated with the Proposed Action.

3.6.2.1 No Action Alternative

The No Action Alternative would not change the baseline conditions for management of hazardous materials, toxic substances, hazardous waste, or contaminated sites at Fort Benning. Fort Benning would continue to minimize any adverse impacts resulting from hazardous materials by following all applicable laws, regulations, and Fort Benning plans. Therefore, negligible impacts are anticipated.

3.6.2.2 Alternative 1: Full Demolition

Prior to demolition and disposal activities, each structure would be assessed for the presence of hazardous materials or wastes prior to demolition and disposal activities. The assessment may include reviews of records related to the structure's historic use and historic pesticide application, surveys for ACM and LBP, and targeted sampling of parts of the structure. Structures with environmental hazards would not be demolished until regulated hazardous substances or wastes are properly abated in accordance with the environmental statutes and regulations that govern hazardous substance and hazardous waste management activities at DoD installations. All abatement activities would be conducted in accordance with Army policies and procedures.

Demolition activities would temporarily increase the amount of solid waste generated. This waste would include building materials such as concrete, insulation, nails, electrical wiring, and rebar, as well as potential yard waste originating from site preparation. There would also be a minor increase in the storage and use of hazardous materials such as POL, cleaning agents, paints, adhesives, herbicides and pesticides. Minor POL spills from engines and equipment operation could occur during demolition operations. Appropriate NPDES Best Management Practices (BMPs) that apply to construction and demolition (Section 3.8), including preparing

and adhering to a Spill Prevention, Control, and Countermeasure Plan, would be implemented during all demolitions to ensure that any leaks or spills would have only negligible environmental effects. Contractors would be responsible for handling all regulated materials in accordance with federal and state regulations. Over the long-term, demolition would reduce the quantities of hazardous materials that may be contained within the infrastructure composition, as well as those utilized in the operation; repair; and maintenance of these buildings and structures.

In summary, Alternative 1 would ensue in short-term, minor adverse impacts from an increase in Hazardous Materials and Waste disposal due to demolition activities. Long-term beneficial impacts would be expected by 1) disposing of and reducing the presence of hazardous materials that may remain within the infrastructure's composition, and 2) by reducing the quantity of Hazardous Materials and Waste required for ongoing operation, repair, and maintenance of those facilities.

3.6.2.3 Alternative 2: Selective Demolition

Although fewer buildings and structures would be demolished and disposed of under Alternative 2, potential impacts involving Hazardous Materials and Waste would be similar to those occurring under Alternative 1. Therefore, short-term minor adverse effects would be expect from hazardous material disposal as a result of demolition activities, and long-term beneficial impacts as a result of reducing the presence and quantity of Hazardous Materials and Waste required for ongoing operation, repair, and maintenance. Both adverse and beneficial impacts involving Hazardous Materials and Waste would occur to a lesser degree under Alternative 2 as compared with Alternative 1.

3.6.3 Mitigation

Adherence to applicable federal, state, Army laws and regulation, and Fort Benning plans mentioned in this section would minimize impacts due to demolition, construction, and maintenance operations activities. No additional mitigation measures are warranted.

3.7 Land Use

Land Use involves the utilization or modification of land for agricultural, industrial, training, residential, recreational, or other purposes. Land uses are frequently regulated by management plans, policies, ordinances, and regulations that determine the types of uses that are allowable or to protect specially designated or environmentally sensitive uses.

3.7.1 Affected Environment

The ROI for Land Use includes the land within Fort Benning's cantonment areas and other adjacent cantonment or training lands that could potentially be affected due to changes in land utilization as a result of the Proposed Action. Fort Benning's land is utilized primarily for support of cantonment functions (e.g., residential, recreational, commercial, administrative, etc.) or operational training. Land utilization and management within the cantonment areas are planned in accordance with the Real Property Master Plan and provide orderly development of

the Installation. Impacts to the Land Use and environment are minimized by using proper management plans to guide land utilization planning decisions.

3.7.2 Environmental Consequences

Impacts to Land Use would be considered significant if the Proposed Action was:

- Incompatible with surrounding land uses;
- Resulted in incompatible land uses that degraded mission-essential training or necessary functions within the cantonment areas.

3.7.2.1 No Action Alternative

Under the No Action Alternative, demolition and disposal of buildings and other structures on the FRP list as directed by the US Army would not occur. Therefore, no changes to land utilization would occur and no impacts to Land Use are anticipated.

3.7.2.2 Alternative 1: Full Demolition

Under Alternative 1, no conflicts are anticipated to Land Use compatibility. Negligible changes to Land Use would occur during demolition activities but limited to the project's demolition site. These effects would be temporary in nature and within areas accustomed to construction related activities. Following demolition, changes to Land Use from the absence or return to open/green space of buildings and other structures on the FRP list would not adversely affect the overall Land Use or management of the surrounding areas. As a result, no impacts are anticipated.

3.7.2.3 Alternative 2: Selective Demolition

The potential impacts resulting from the implementation of Alternative 2 would be the same as those described under Alternative 1. Therefore, no impacts are expected to Land Use resulting from the implementation of Alternative 2.

3.7.3 Mitigation

The Action Alternatives would result in no adverse effects to Land Use and no mitigation would be necessary.

3.8 Noise

Noise is described as unwanted sound that interferes with normal activities or otherwise diminishes the quality of the environment. Noise levels are measured in decibels (dB), which represent the acoustical energy present. A point of reception or receptors have a wide diversity in responses that not only vary according to the type of noise and the characteristics of the sound source but also according to the sensitivity and expectations of the receptor, time of day, and distance between the noise source and the type of receptor (e.g., a person or animal).

Infrastructure Footprint Reduction Program Environmental Assessment

Sound intensity is measured in units called decibels (dB). The dB system of measuring sound provides a simplified relationship between the physical intensity of sound and its perceived loudness to the human ear. The dB scale is logarithmic; therefore, sound intensity increases or decreases exponentially with each dB of change. For example, 10 dB yields a sound level 10 times more intense than one dB, while a 20 dB level equates to 100 times more intense.

Noise associated with military installations is a factor in Land Use planning both on and off the Installation, and is referred to as operational noise as it occurs during the day-to-day, long-term operation of Fort Benning. Operational noise can be generated by a variety of sources including mobile sources (e.g., trucks), stationary sources (e.g., construction sites, machinery, or industrial operations), and natural sources (e.g., wind, streams, and wildlife).

| Noise Source | Noise Level (dB) | dB Effect | |
|--|------------------------|-------------------------------------|--|
| Jet take-off (at 25 meters) | 150 | Eardrum rupture | |
| Thunderclap, chain saw | 120 | Painful | |
| Lawn mower, motorcycle, garbage truck | | Hearing damage likely from 8 hour | |
| Lawir mower, motore yele, garbage truck | 100 | exposure. | |
| Freight train (at 15 meters), food blender | | Possible hearing damage from 8 hour | |
| | | exposure. | |
| Office, background music | 60 | Soft | |
| Library, bird calls, lowest limit of urban | 40 | Discreet | |
| ambient sound | 40 | | |
| Whisper, rustling leaves | 20 | Barely noticeable | |

Table 3.1: Comparative Noise Levels

Source: Modified from IAC Acoustics accessed online 17 May 2018 at <u>http://www.industrialnoisecontrol.com/comparative-noise-examples.htm</u>.

3.8.1 Affected Environment

The ROI for Noise encompasses the land within Fort Benning's cantonment areas. Noise within the cantonment areas are typical of most residential communities and includes construction activities, vehicle traffic, children playing, mowing grass, aircraft, etc. Other activities that contributes to the noise environment of the cantonment areas includes Soldier physical fitness training, equipment maintenance, and small- and large-caliber weapon fire.

Fort Benning's Installation Operation Noise Management Plan (IONMP) describe and assess the Installation's existing noise environment and offers strategies for noise management through policies and procedures to on-post and neighboring communities. The noise exposure on communities is translated into Noise Zones. Noise-sensitive land uses range from acceptable to not recommended within the Noise Zones. These include:

- Zone III areas where the noise level is incompatible with noise sensitive receptors;
- Zone II areas where the noise level is normally incompatible with sensitive receptors;

• Zone I/Land Use Planning Zone (LUPZ) areas where the noise level is compatible with noise sensitive receptors (e.g. residential communities, schools, churches, etc.).

Note that LUPZ is a subdivision of Zone I. The LUPZ is five dB lower than the Zone II where most noise-sensitive land uses are still generally acceptable. This zone acts as a transition between the relatively unrestrictive Zone I and more restrictive Zone II. The LUPZ shows areas normally considered Zone I on an average basis may experience a level of annoyance during increased operations.

Buildings and structures identified for demolition under the FY19-23 FRP exists within Zone I and Zone II. Figure 3-2 illustrates the noise contours as they apply to the FRP.

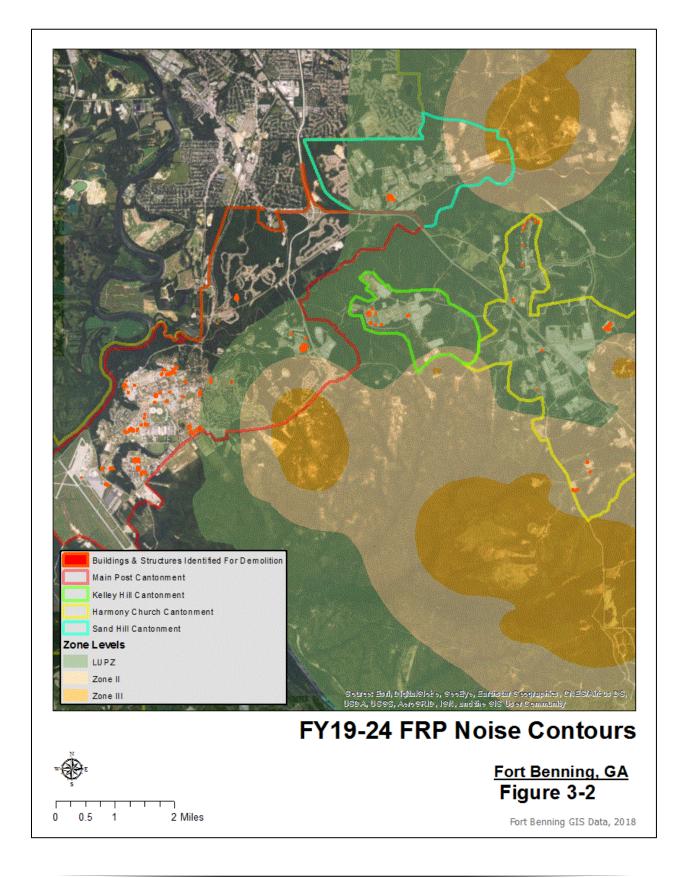
3.8.2 Environmental Consequences

Impacts as a result of Noise would be considered significant if the Proposed Action was:

- Incompatible with surrounding land use;
- Resulted in incompatible changes involving land use that degraded mission-essential training or necessary functions within the cantonment areas.

3.8.2.1 No Action Alternative

Under the No Action Alternative, demolition and disposal of buildings and other structures on the FRP list as directed by the US Army would not occur. Therefore, no changes to Land Use would to occur and no impacts due to increased noise levels are anticipated.



3.8.2.2 Alternative 1: Full Demolition

Noise resulting from the use of vehicles and equipment for the demolition of would be shortterm and localized resulting in negligible effects. Demolition would occur over a brief time period and occur during normal business hours. Although there are sensitive noise receptors (e.g., residential areas) adjacent to the sites of demolition, no long-term effects would occur from these activities. Temporary increased levels of noise would terminate upon completion of construction and demolition, and the noise environment would return to pre-demolition conditions. Range training and aviation activities within the cantonment areas would continue in the similar manner as is found under existing conditions and will be accounted for in the Installation Operational Noise Management Plan. Noise producing activities from demolition would not permanently change or adversely affect the current noise environment.

3.8.2.3 Alternative 2: Selective Demolition

The potential impacts resulting from the implementation of Alternative 2 would be the same as those described under Alternative 1. Therefore, no adverse impacts to the current noise environment are expected resulting from the implementation of Alternative 2.

3.8.3 Mitigation

The Action Alternatives would result in no adverse effects due to increased noise levels and no mitigation would be necessary.

3.9 Soils

Soils are most often described in terms of their type, slope, physical characteristics, and relative compatibility or limitations with regard to particular activities. Two basic soil provinces make up Fort Benning: the GA Sand Hills and the Southern Coastal Plains. Based on the US Department of Agriculture, Natural Resource Conservation Service's soil survey "K factor," most of the soils found at Fort Benning, with the exception of southern portions of the Installation, are identified as low to moderately erodible when undisturbed. The degree of erodibility is determined by physical factors such as drainage, permeability, texture, structure, and percent slope. The rate of erodibility is based on the amount of vegetative cover, climate, precipitation, proximity to water bodies, and Land Use. Soil disturbing activities accelerate the erosion process by exposing soils to precipitation and surface runoff. Activities that disturb or remove vegetation are likely to increase the erosion hazard, particularly on slopes.

Prime farmland soils, protected under the Farmland Protection Policy Act (FPPA) (7 USC 4201; FPPA of 1981, as amended) are not discussed in this EA, as no lands within Fort Benning have been classified as prime farmland. Therefore, there is no further discussion of prime farmland in this EA.

To prevent soil erosion during construction, consequent damage to endangered species habitat, or sedimentation of streams and wetland areas, the Army employs NPDES BMPs as defined by the GA Department Natural Resources (DNR), and GA Soil and Water Conservation Commission for all construction projects. (Note: In the context of stormwater permit requirements,

construction refers to ground-disturbing activities, including facility demolition.) Pursuant to that requirement, state and county regulations require construction projects involving one acre of land disturbance or more—including smaller sites that are part of a larger common plan of development that collectively disturbs one acre or more—to obtain an approved Erosion Sedimentation Pollution Control Plan (ESPCP), fee submittal for the disturbed acreage, and Notice of Intent (NOI) to meet the requirements of the federal NPDES construction permit program and GA Erosion and Sedimentation Control Act. The ESPCP prescribes activities to limit erosion and sedimentation from the site and includes a site description, list of BMPs to be used, BMP inspection procedures to be performed by qualified personnel, procedures for timely BMP maintenance, requirements for sampling of discharges or receiving streams for turbidity, and reporting requirements to the GA DNR Environmental Protection Division (EPD).

3.9.1 Affected Environment

The ROI for Soils includes Fort Benning's cantonment areas that could be directly and/or indirectly impacted by soil erosion and sedimentation from the Proposed Action. Common soil types found within the cantonment areas consists of the Nankin, Troup, Bibb, Lucy, Fuquay, Orangeburg, Uchee, Troup, Ruston, Norfolk, Udorthents, Lakeland, and the Cowarts-Ailey series. Generally, soils on Fort Benning are highly susceptible to erosion if vegetation is removed, especially on steep slopes. The establishment and maintenance of appropriate vegetation and proper drainage systems is the fundamental means of addressing and avoiding extensive erosion of soils. Figures 3-2 and 3-3 illustrate the soils associated with buildings and structures identified for demolition.

Minor earth disturbances are expected from demolition activities. Demolition will include the removal of buildings, supporting facilities, site improvements (such as parking lots and walkways), and underground structures and utilities. The total amount of earth disturbance for the proposed demolition will be analyzed individually and determined prior to final site design and contingent upon topographical features, utility tie-ins, and the final architectural and engineering facility design for each project site.

3.9.2 Environmental Consequences

Impacts would be considered significant if they would:

- Violate applicable federal or state laws and regulations, and/or fail to receive applicable state permits (e.g., NPDES construction permit) prior to initiating the Proposed Action;
- Substantially degrade soils, soil fertility, or soil productivity;
- Have substantial, highly noticeable influences on the rate of soil erosion or the ability of the soil to support vegetation expected to be present in the area;
- Involve the loss of vegetation at a level that would substantially reduce the occurrence of a plant species or degrade the habitat of a dependent animal species at a population level on the Installation.

3.9.2.1 No Action Alternative

No effect on Soils would be expected under the No Action Alternative. Under the No Action Alternative, no facilities would be removed and no ground disturbance would occur, and therefore no soils would be disturbed or changed.

3.9.2.2 Alternative 1: Full Demolition

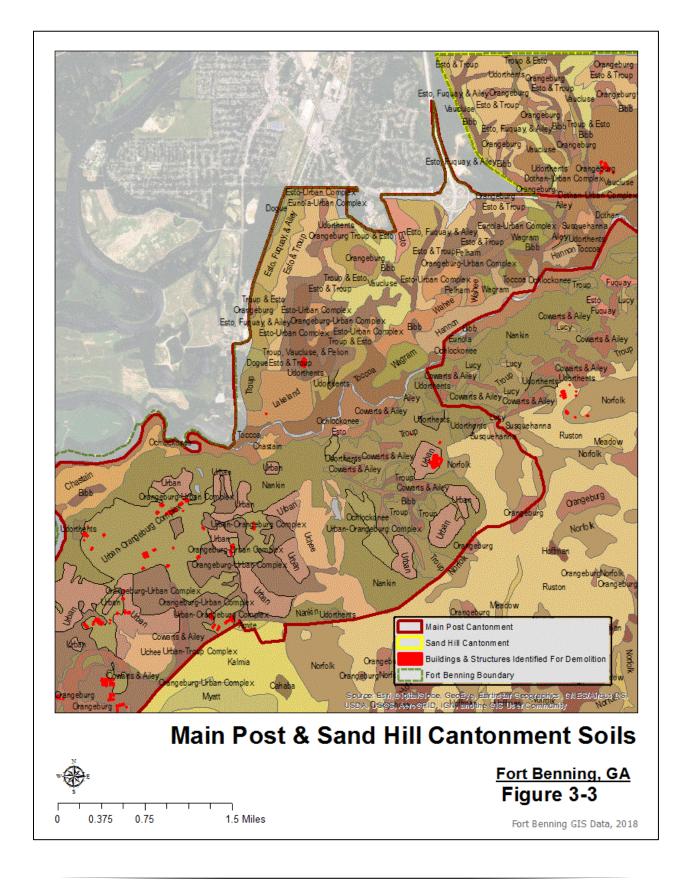
Under Alternative 1, soil erosion and sedimentation controls will be put in place, per the Clean Water Act (CWA) and the GA Erosion and Sedimentation Control Act, and appropriate NPDES permits will be obtained in prior to any land disturbing activities. Short-term, minor adverse impacts to Soils within the ROI may occur during the demolition; however, no long-term effects would be anticipated as all ground disturbances at the proposed sites, would be re-vegetated and stabilized.

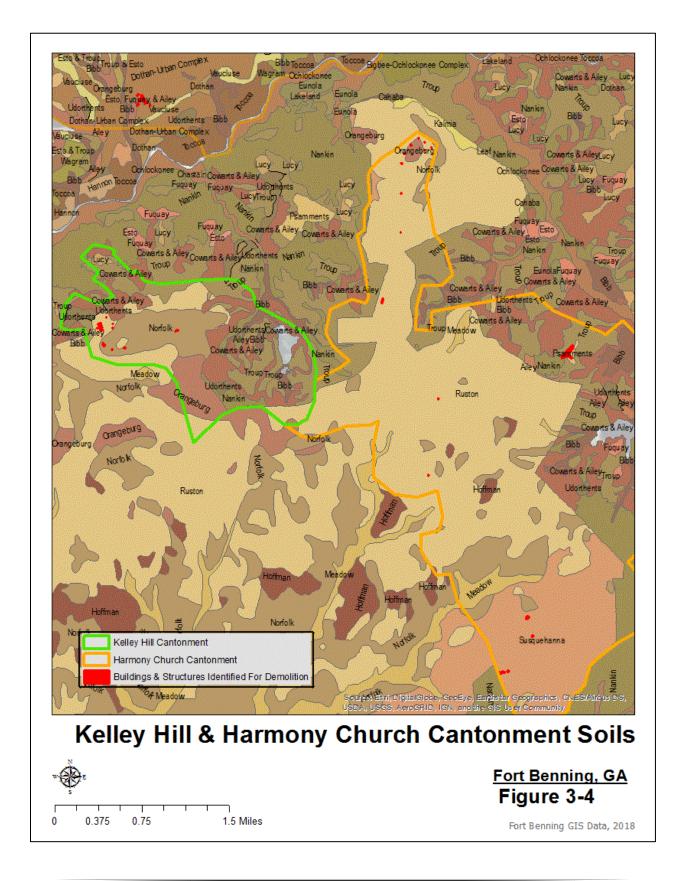
3.9.2.3 Alternative 2: Selective Demolition

The potential impacts to resulting from the implementation of Alternative 2 would be the same as those described under Alternative 1. Short-term, minor adverse effects to Soils within the ROI could occur during demolition and disposal; however, no long-term effects would be anticipated.

3.9.3 Mitigation

For either Action Alternative, mitigation measures would be implemented as part of federal and state permitting requirements to minimize the effects to soil resources during demolition and disposal activities. Application of federal and state erosion control measures and NPDES permitting requirements to include preparation of an Erosion, Sedimentation and Pollution Control Plan (ESPCP) detailing erosion and sedimentation control BMPs, and a minimum 25-foot surface water setback to minimize soil impacts during construction are required prior to land disturbing activities. Additionally, adherence to federal and state laws and regulations would minimize impacts due to operations and maintenance activities in the long-term. Therefore, no additional mitigation measures are warranted.





3.10 Utilities

The term utility refers to a basic set of services (e.g., electricity, natural gas, water, sewage, communications, and transportation) provided by an organization who generates, distributes, and maintains the infrastructure necessary.

3.10.1 Affected Environment

Utilities involved with the Proposed Action include electricity (energy/power), natural gas, water (potable), and wastewater (sewage). The ROI for Utilities is Fort Benning. All of Fort Benning's utilities are privatized. Potable water and wastewater systems are privatized to Columbus Water Works (CWW), energy/electricity systems to Flint Energy, and gas to Liberty Utilities. Under the privatization of utilities agreements, each respective entity would manages the systems for Fort Benning's needs.

3.10.2 Environmental Consequences

Impacts to Utilities could be significant if the Proposed Action reduced the capacity of a utility system to the extent of becoming impractical for the privatized entities to continue providing the service.

3.10.2.1 No Action Alternative

Under the No Action Alternative, demolition and disposal of buildings and other structures on the FRP list as directed by the US Army would not occur. There would be no reduction in facilities deemed inefficient and cost prohibitive to sustain. The use and demand for utilities would not change and service to these structures would remain unchanged. The No Action Alternative would have a long term, minor impact as related to energy usage and continuing efforts to reduce Fort Benning's total energy demand.

3.10.2.2 Alternative 1: Full Demolition

Under Alternative 1, the Proposed Action would gradually reduce demands on energy and utilities. The demolition of infrastructure would contribute to efforts in reducing Fort Benning's energy usage resulting in a long-term, beneficial impact to Fort Benning's total energy demand.

3.10.2.3 Alternative 2: Selective Demolition

Under Alternative 2, the Proposed Action would demolish 17 fewer buildings than Alternative 1. These historic buildings would be retained and adapted as necessary for use. Overall, long-term beneficial impacts are also anticipated as a result of Alternative 2; although less advantageous than Alternative 1.

3.10.3 Mitigation

Since the Action Alternatives would result only in beneficial impacts, no mitigation measures are warranted pertaining to Utilities.

3.11 Water Resources

Water Resources include surface water and floodplains, groundwater and aquifers, and wetland resources. Activities that affects water quality, quantity, or rate of movement at one location within a watershed has the potential to affect the characteristics of the resource. The CWA of 1972 is the primary federal law that protects the nation's waters. The CWA prohibits the discharge of any pollutant to waters of the US unless the discharge is authorized by a NPDES permit.

The ROI for Water Resources includes the Fort Benning cantonment areas and associated drainage basins that could be directly and/or indirectly impacted by the Proposed Action. The primary water quality concerns at Fort Benning are sedimentation from highly erodible soils, fecal coliform bacteria, storm water runoff from impervious areas, and loss of wetlands (USACE, 2007).

3.11.1 Affected Environment

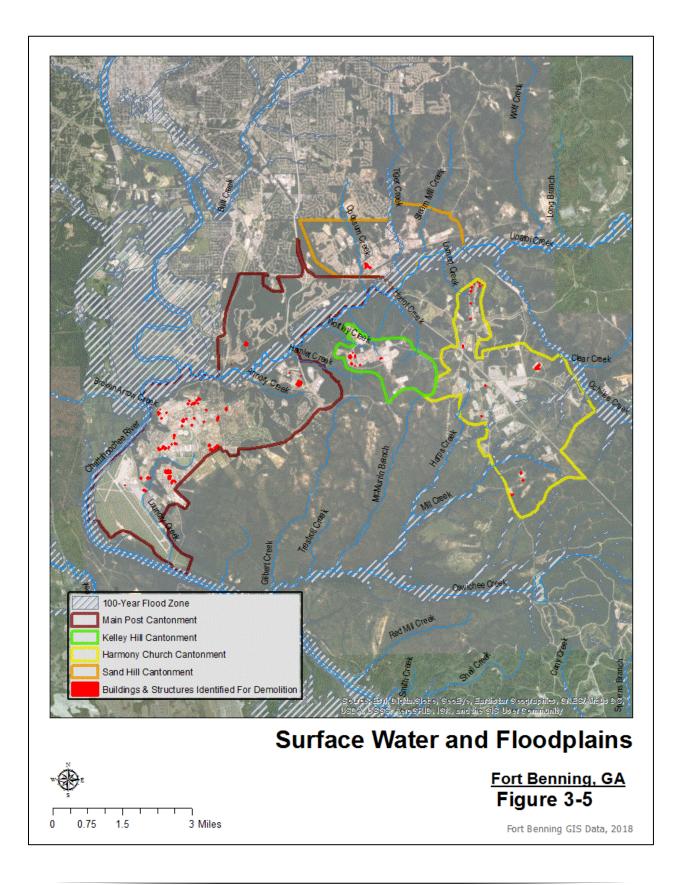
Surface water systems are typically defined in terms of watersheds. Watersheds are delineated into hydrologic units by the US Geological Survey using a nationwide system based on surface hydrologic features. Each hydrologic unit is identified by a unique hydrologic unit code (HUC).

3.11.1.1 Surface Water

The Chattahoochee River arises as a cold-water mountain stream in the Blue Ridge Province. Fort Benning is located within the Chattahoochee River basin (HUC 03130003), and the river flows adjacent and through approximately 15 miles of the Installation on its southwestern side, close to the cantonment areas. As illustrated in Figure 3-4, all surface waters within the ROI drain toward the Chattahoochee River, which includes 15 streams and their tributaries. Armory, Hamlet, Wortley, Daugherty, Castin, Heriot, Lumert, Opossum, Tiger, Steam Mill, and Ochillee Creek drain into Upatoi Creek before flowing into the Chattahoochee River. While McMurrin Branch, Mill, Harps, and Gilbert Creek drain into Oswichee Creek before flowing into the Chattahoochee River. Laundry Creek drains south directly into the Chattahoochee River.

3.11.1.2 Stormwater

Stormwater on the Installation drains via culverts, ditches, swales, and natural seepage and overland flow. Many of the soils at Fort Benning are characterized as susceptible to erosion, and many of the water quality issues for the streams in and around Fort Benning are related to high levels of sedimentation, particularly after storm events.



3.11.1.3 Wetlands and Surface Waters

Wetlands constitute approximately 17,000 acres of the Installation's 182,000 acres (Fort Benning 2015). Wetlands are considered transitional areas between aquatic and terrestrial environments where the recurring presence of water, at or near the soil surface, drives the natural system; which includes the soils that form and wildlife communities that use these areas. Jurisdictional wetlands, which the USACE regulates, are defined under the CWA as areas that are saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, etc. (EPA, 2018). Wetlands within the ROI are almost exclusively riparian and associated with the stream systems. Preliminary site planning information, (i.e., the National Wetlands Inventory, previously delineated wetlands) did not identify any known wetlands or streams within 50 feet of proposed demolition sites. The Proposed Action would have no effect upon wetlands or surface waters; therefore, such resources are not discussed further in Section 3.9.2.

3.11.1.4 Groundwater

Fort Benning is located within the Coastal Plain hydrogeologic province of GA and AL. The principal groundwater source for Fort Benning is the Cretaceous Aquifer System. The regional groundwater flow in the area is from north to south, and the aquifers in the Coastal Plain consist of porous sands and carbonates and include alternating units of sand, clay, sandstone, dolomite, and limestone that dip gently and thicken to the southeast. The Proposed Action would not affect groundwater; therefore, groundwater is not discussed further.

3.11.1.5 Floodplains

A floodplain is an area of land adjacent to a stream or river that experiences flooding during periods of high water flows, usually a result of rain events. EO 11988, Floodplain Management, instructs federal agencies to consider the risks, danger, and potential impacts of locating projects within floodplains, and requires agencies to avoid, to the extent possible, the long- and short-term adverse impacts associated with the modification of floodplains whenever there is a practicable alternative. The Federal Emergency Management Agency (FEMA) is the federal agency having lead responsibility for flood hazard assessment and mitigation. FEMA has adopted the 100-year floodplain as the base flood standard for areas subject to a one percent or greater chance of flooding in any given year.

The Chattahoochee River floodplain, and its associated black water and tupelo swamps, is located in the southwestern portion of the Installation, adjacent west of Fort Benning's Main Post Cantonment Area as illustrated in Figure 3-4. As well, Figure 3-4 illustrates the 100-year floodplain associated with Upatoi, Ochillee, Harps, Mill, and Oswichee Creek (Federal Emergency Management Agency [FEMA] 2017, Fort Benning Geographic Information Systems [GIS], 2018). The building and structures proposed for demolition and associated with this Proposed Action are located beyond the flood zones and would have no effect upon areas considered to have a one percent or greater annual chance of flooding. Therefore, such resources are not discussed further.

3.11.2 Environmental Consequences

A significant adverse impact would occur to Water Resources if implementation of the Proposed Action resulted in an unpermitted impacts to surface waters.

Surface water within Fort Benning could be adversely impacted from contamination from fuel/oil spills, pesticide residue, fired munitions residue, and untreated sewage bypass. These potential contamination sources are controlled and minimized by the implementation of Fort Benning Spill, Prevention, Control, and Countermeasure Plan, Fort Benning Installation Spill Contingency Plan, Storage Tank Management Plan, Stormwater Pollution Prevention Plan, and the NPDES permit requirements to prevent sewage bypasses. Nonpoint sources, more specifically sedimentation are the primary pollutant sources of concern for surface water at Fort Benning. Consequently, much of the Installation's water resource management is closely related to minimizing and repairing erosion caused primarily by ground disturbing activities.

3. 11.2.1 No Action Alternative

Under the No Action Alternative, demolition and disposal of buildings and other structures on the FRP list as directed by the Army would not occur. Therefore, the No Action Alternative would have no effect on Water Resources and no adverse impact would be anticipated.

3.11.2.2 Alternative 1: Full Demolition

Under Alternative 1, short-term, minor adverse effects to surface waters could occur during the demolition as a result of ground disturbances. No long-term effects to Water Resources would be anticipated as the sites would be re-vegetated, where possible, and stabilized upon completion of demolition activities. Potential impacts to Water Resources as a result of POL spills from vehicle and equipment failures would be precluded by compliance with applicable regulations to minimize the risks of minor spills occurring. In the event of an accidental POL spill, Fort Benning personnel will follow spill response procedures and an accident response team would be available immediately to minimize any adverse effects.

3.11.2.3 Alternative 2: Selective Demolition

The potential impacts to Water Resources resulting from the implementation of Alternative 2 would be the same as those described under Alternative 1.

3.11.3 Mitigation

Adherence to regulatory requirements by implementation of the Proposed Action would avoid or minimize adverse impacts to Water Resources. A GA NPDES Construction Permit would be required prior to construction that involves more than one acre of land disturbing activity. Furthermore, Fort Benning requires vegetative and structural BMPs for all construction associated land disturbances, and additionally an ESPCP for projects that disturb 0.1 acre or greater to ensure smaller land disturbances do not negatively impact Water Resources.

Adherence to federal and state requirements and NPDES permitting requirements to include preparation of an ESPCP detailing erosion and sedimentation control BMPs for implementation would minimize any potential effects to Water Resources. Consequently, no additional mitigation measures are warranted.

3.12 Environmental Impact Summary

A summation of the direct and indirect impacts to the VECs carried forward for analysis are presented in Table 3.2.

| VEC | No Action | Alternative 1: Full Demolition | Alternative 2: Selective Demolition |
|----------------------------------|---|--|--|
| Air Quality | Long-term, minor adverse impacts as a result of existing emission levels and use of existing emission sources. | Long-term, beneficial impacts due to the reduction of air emissions equipment/Title V Permit. Short-term, minor adverse impacts from fugitive dust emissions during demolition. | Same as Alternative 1. |
| Biological Resources | No impacts | Negligible effects as a result of potential soil disturbances, removal of vegetation and possible habitat, vehicle traffic, etc. | Same as Alternative 1. |
| Cultural Resources | No impacts | Long-term, minor adverse impacts resulting from altering the historic landscapes. | Short-term, minor adverse impacts resulting from temporally altering the historic viewsheds. |
| Hazardous Materials and Waste | No impacts | Short-term, minor adverse impacts from an increase in hazardous materials and disposal of waste. | Same as Alternative 1. |
| Land Use | No impacts | Negligible effects from changes in land utilization. | Same as Alternative 1. |
| Noise | No impacts | Negligible effects as a result temporary demolition activity. | Same as Alternative 1. |
| Soils | No impacts | Short-term, minor adverse impacts as a result of ground disturbances. | Same as Alternative 1. |
| Utilities | Long-term, minor adverse impacts as a result of energy usage by facilities on the FY19-23 FRP list. | Long-term, beneficial impacts from reductions to Fort Benning's total energy demand. | Same as Alternative 1. |
| Water Resources | No impacts | Short-term, minor adverse impacts as a result of ground disturbances or accidental spills. | Same as Alternative 1. |

Table 3.2: Summary of Direct and Indirect Environmental Consequences for Alternatives

4 CUMULATIVE IMPACTS

4.1 Introduction

In addition to identifying the direct and indirect environmental impacts of their actions, the CEQ's NEPA regulations require federal agencies to address cumulative impacts related to their proposals. A cumulative impact is defined in the CEQ Cumulative Impact regulations as: "the impact on the environment which results from the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (federal or non-federal) or person undertakes such other actions. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time (40 CFR §1508.7)." This section describes the process used to identify potential cumulative impacts related to the Proposed Action at Fort Benning and discusses those impacts for each of the resources addressed in Chapter 3.

4.1.1 Identifying Cumulative Impacts

Guidance for assessing cumulative impacts has been provided by CEQ in *Considering Cumulative Effects under the National Environmental Policy Act* (CEQ 1997b). The process involves identifying significant cumulative effects issues; establishing the relevant geographic and temporal extent (time frame) of the cumulative effects analysis; identifying other actions affecting the resources of concern; establishing the cause-and-effect relationship between the Proposed Action and the cumulative impacts; determining the magnitude and significance of the cumulative effects; and identifying ways in which the agency's proposal might be modified to avoid, minimize, or mitigate adverse, cumulative impacts.

CEQ regulations specify that cumulative impacts analyses encompass past, present, and reasonably foreseeable future actions. Past actions are generally included in the baseline described in the affected environment and No Action Alternative in Chapter 3; therefore, past actions that are part of the baseline are not included. Only in unique circumstances are past actions not included in the baseline and addressed in the cumulative impacts analysis. As appropriate and feasible, Chapter 3 notes past activities that may have contributed to the current affected environment and baseline conditions.

An ROI was defined for each VEC in Chapter 3 under its Affected Environment. The ROI or geographic extent of the cumulative impacts analysis generally coincides with the ROI of each VEC and is described in Section 4.3. In addition, significance thresholds defined for each resource in Chapter 3 also apply to the assessment of cumulative impacts.

4.1.2 Past, Present and Reasonably Foreseeable Actions

This section identifies past, present, and reasonably foreseeable future actions considered. The analysis considers present and reasonably foreseeable future actions as those actions that are currently under way, approved, and/or have identified funding. Actions beyond that become increasingly speculative and difficult to assess. The cumulative projects numbered below correspond with Figure 4-1 and illustrate their location on Fort Benning.

- 1) Army 2020 Force Structure Realignment (FY13 FY2020): In 2013, the Army prepared a Programmatic EA to analyze the potential environmental and socioeconomic impacts associated with a proposed action consisting of a reduction in active Army end-strength from 562,000 to 490,000. Since the 2013 Programmatic EA was completed, DoD fiscal guidance has continued to change, and the future end-strength of the Army must be reduced even further than the 490,000 considered in the 2013 Programmatic EA. This came about primarily because the second part of the 2011 Budget Control Act, commonly referred to as sequestration, came into effect. Army Force Structure Realignment decision for Fort Benning included the inactivation of the 3rd Armored Brigade Combat Team (a loss of approximately 3,400 Soldiers), and the activation of the 1-28th Infantry Brigade Task Force that consists of approximately 1,080 Soldiers. Although a task force is usually considered a temporary organization, the Infantry Brigade Task Force proposed for conversion at Fort Benning is actually a permanent part of Army force structure. In 2016, a Record of Environmental Consideration was completed in consideration of the environmental effects and consequences of the realignment specific to Fort Benning. Accordingly, no significant environmental impacts were anticipated to occur. Note that Army 2020 Force Structure Realignment is not identified in Figure 4-1 due to its post-wide implications.
- 2) Artillery Firing Points Expansion and Maintenance of the Open Field Training Environment (FY16–18): Improvements and long-term maintenance activities to existing training assets needed to support the missions of the Airborne and Ranger Training Brigade, 75th Rangers, and the Field Artillery units of the Infantry School and the 1-28th Infantry Battalion Task Force, as well as other tenant and/or visiting units' training requirements. These assets include Drop Zones, Helicopter Landing Zones/Pick-up Zones, and Firing Points for Mortars and Howitzer guns, and are generally referred to as "open field training environments". Fort Benning expects to complete an EA by summer of 2018.
- 3) Naval Operation Support Center (FY16–18): Construction on approximately six acres on Main Post, south of Custer Road. The facility will consist of an administration building and a parking lot for up to 140 Navy drill Reservists and support staff.
- 4) Benning Technology Park and Custer Road Improvements (FY15–18): The GA Department of Transportation is implementing road improvements project of US Route 27 (Victory Drive) and Custer Road in Muscogee County. Following completion, the project will improve the existing security checkpoint interchange system in the Sand Hill Cantonment Area by providing civilians access to a proposed commercial development off the Installation without having to pass through the Fort Benning security checkpoint. The commercial development, to be known as Benning Technology Park, borders Fort Benning directly west of the Patton Place military housing area. Benning Technology Park, a private/public joint venture between Columbus State University, Flournoy Development Company, and the Development Authority of Columbus, will include offices, retail services, and educational facilities.
- 5) Implementation of a 30-Megawatt (MW) Photovoltaic (PV) Solar Facility (FY15) and Additional 15MW Capacity (FY18): In 2014, Fort Benning prepared an EA for the construction, operation, and maintenance of a 30-MW PV solar system on approximately 250

acres of land on Fort Benning located at the Dove Field near the western boundary of Fort Benning within Russell County, AL. Final design of the PV system did not require use of the entire 250 acre parcel, and approximately 80 acres of the originally evaluated site are being considered for the construction, operation, and maintenance of an addition to the existing solar array to produce an supplementary 15-MW of renewable energy for the Installation to contribute to compliance with the Energy Policy Act of 2005.

- 6) **Fielding of the Enhanced Performance Round (FY15 and beyond):** A DoD initiative to improve munitions performance, as well as satisfy a component of the Army's "Green Ammunition" program to create environmentally friendly, small arms ammunition to reduce lead accumulation at training ranges. The current lead-core 5.56mm and 7.62mm ball ammunition will be replaced with a copper-core, which has fewer adverse environmental impacts and concurrently provides better shooting accuracy, consistency, and increased penetrating capability. Note that Fielding of the Enhanced Performance Round is not identified in Figure 4-1 due to its post-wide implications.
- 7) **Tactical Unmanned Aerial Vehicle Hanger (FY17):** To support the 75th Ranger Regiment's Tactical Unmanned Aerial Vehicle Platoon, this 10,340 square foot facility would consists of maintenance bays, classrooms, storage, and administrative areas. Other ancillary support facilities will include hazardous materials storage, a Tactical Unmanned Aerial Vehicle Hanger runway, and personnel parking. This facility is to be constructed alongside other support facilities currently used for operations at Lawson Army Airfield.
- 8) **Bridge 27 Replacement (FY15):** Approximately four acres of disturbance connecting the Sand Hill Cantonment Area to First Division Road, including demolition of the existing bridge.

Past, present and reasonably foreseeable actions that range beyond Fort Benning include:

• **Tri-State Water Wars (ongoing):** Legal challenge by the states of Florida and AL against GA and the USACE that contests the reallocation of water supply from the Chattahoochee River to support population growth in Atlanta, GA, and surrounding suburban areas. This lawsuit filed in 1990 argues that the USACE dam construction favors the interests of GA over environmental impacts to endangered aquatic species downstream due to decreased water levels and flow rates, as well as affecting freshwater input to the eastern Gulf of Mexico, which increases salinity levels that impact marine life.

4.2 Cumulative Impacts by Resource

Projects to be addressed in this cumulative impacts analysis correspond to resources that the alternatives have potential to affect. Biological Resources, Land Use, and Noise as analyzed in Chapter 3, would not be affected by the Proposed Action Alternatives. Therefore, these VECs are not discussed further in Chapter 4 as there were no anticipated adverse impacts and contributions to cumulative impacts would be considered unattainable.

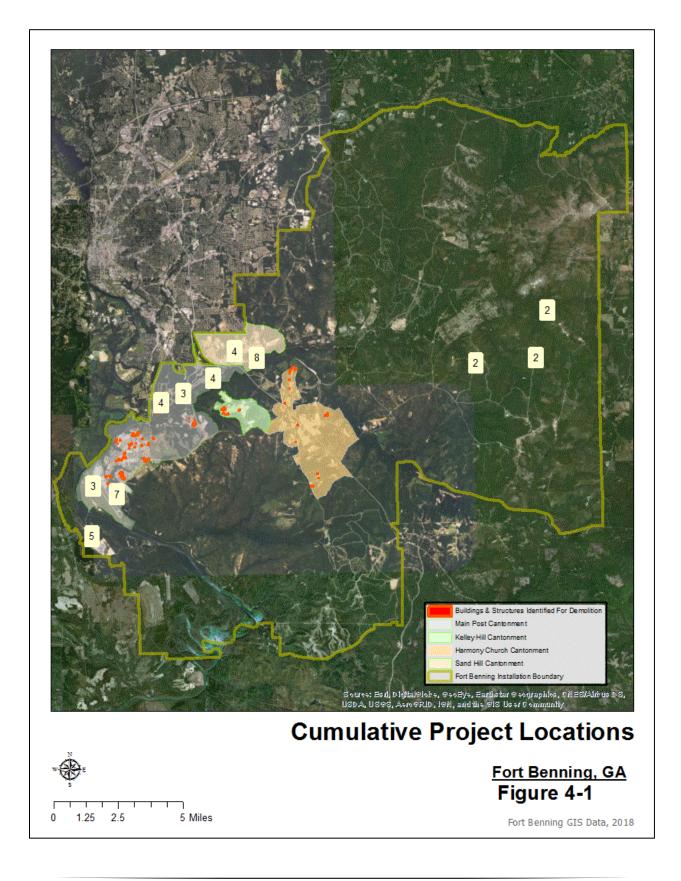


Table 3.2 provides a summary of direct and indirect environmental consequences for each Alternative as a result of the Proposed Action. As presented in the analysis below, the adverse impacts do not result in significant adverse cumulative effects when considering all other past, present, and reasonably foreseeable future construction and/or maintenance activities at Fort Benning.

4.2.1 Air Quality

Present and reasonably foreseeable future cumulative projects that could affect Air Quality include each of those listed in Section 4.1.2. The addition of considerable stationary source emissions would be unlikely under any Alternative and under the Action Alternatives long-term, beneficial impacts are expected due to reduced emissions. The generation of fugitive dust due to minor earth disturbances is the primary concern when considering construction and demolition cumulative impacts to Air Quality. Accordingly, an increase of fugitive dust resulting from minor earth disturbances would be confined to small areas of the project sites and temporary; occurring only during project activities. All applicable federal and state Air Quality protection requirements would be implemented to mitigate any generation of fugitive dust due to minor earth disturbances and no significant cumulative impacts to Air Quality would be anticipated.

4.2.2 Cultural Resources

Present and reasonably foreseeable actions that could adversely affect Cultural Resources include Custer Road Improvements and Tactical Unmanned Aerial Vehicle Hanger. The concern involves Fort Benning's historic districts and is a potential cumulative effect to the viewshed within the Main Post, and Lawson Army Airfield Historic Districts (Figures 3-1 and 4-1).

Under the Action Alternatives, potential demolition sites are located within the Main Post, and Lawson Army Airfield Historic Districts. The cumulative impacts, when considering all actions have the potential to affect the integrity of the historic districts; however, Fort Benning has been successful at implementing construction activities while keeping negative effects within the historic districts to a minimum (Fort Benning, 2011). The HPC would be followed, including coordination/consultation between Fort Benning, the Tribes, and the SHPO to ensure impacts to historic properties and districts are mitigated and no significant cumulative impacts to Cultural Resources occurs.

4.2.3 Hazardous Materials and Waste

Present and reasonably foreseeable future cumulative projects that could adversely affect Hazardous Materials and Waste include those listed in Section 4.1.2 that will occur within the boundary of Fort Benning. Minor increases in the use, handling, and storage of Hazardous Materials and Waste are associated with construction, renovation, and demolition activities. There would be short-term, minor adverse impacts resulting from demolition and disposal activities associated with the Action Alternatives. This temporary increase in Hazardous Materials and Waste would not lead to a cumulative increase in hazardous waste generation beyond the capacity of local or regional disposal facilities, even in combination with other projects.

All future operations and maintenance, and construction and renovation projects would follow all applicable regulatory requirements for the use, storage, and handling of hazardous material and waste. Therefore, when considering the past, present, and reasonably foreseeable projects listed, short-term, minor cumulative effects could be anticipated due to an increase of Hazardous Materials and Waste generated.

4.2.4 Soils

Cumulative projects that could adversely affect vegetation and soils include those listed in Section 4.1.2. These projects would affect Soils through disturbance, compaction, creation of impervious surfaces, and possible removal of impervious surfaces during the construction/demolition period.

Under the Action Alternatives, training and other construction activities across the Installation would continue to affect Soils. Each of the buildings and structures proposed for demolition and disposal are located in previously disturbed or highly developed areas and when combined with appropriate mitigation measures would result in negligible to short-term, minor cumulative impacts to Soils. Since the Alternatives and cumulative projects listed on Fort Benning lands would be required to follow to existing Fort Benning management practices as well as applicable federal, state and local laws and regulations, including NPDES requirements that mitigate adverse impacts to Soils, only short-term, minor cumulative impacts would be anticipated.

4.2.5 Utilities

Present and reasonably foreseeable future cumulative projects that could affect Utilities include the Army 2020 Force Structure Realignment, Naval Operation Support Center, Benning Technology Park and Custer Road Improvements, Implementation of a 30MW PV Solar Facility and Additional 15MW Capacity, and Tactical Unmanned Aerial Vehicle Hanger. Although the 30MW PV Solar Facility and Additional 15MW projects would generate electricity (beneficial impact), an increase in utility demand would occur as a result the projects mentioned.

Under the No Action Alternative, long-term, minor adverse impacts when considered with other projects mentioned would not result in significant cumulative impacts since privatized utility service capacities are anticipated to far handle increased demands (USACE, 2009). Furthermore, the Action Alternatives' long-term, beneficial impacts are expected reduced Fort Benning's total energy demands. Therefore the Action Alternatives would have no cumulative impacts on Utilities.

4.2.6 Water Resources

Cumulative projects that could affect Water Resources include all the Fort Benning projects that occur within or nearby the cantonment areas. This would exclude the Artillery Firing Points Expansion and Maintenance of the Open Field Training Environment project and Tri-State Water Wars. The remaining projects have the potential to result in adverse effects on Water Resources (including water quality).

The Action Alternatives and cumulative projects listed would contribute to soil erosion, runoff, and surface contamination from pollutants such as hazardous materials and/or waste. Adverse impacts to water are most likely to occur during rain events on active construction/demolition sites. Proactive mitigation measures either already in place or incorporated through construction design would ensure cumulative impacts would be short-term, minor and no significant cumulative impacts to Air Quality would be anticipated.

5 CONCLUSIONS

The Action Alternatives would comply with Army TRADOC's IFRP and Army directives instructing optimized facility management through footprint reduction efforts, minimize adverse environmental impacts, and facilitate the mission requirements of Fort Benning. The No Action Alternative would have no impacts to Biological Resources, Cultural Resources, Hazardous Materials and Waste, Land Use, Noise, Soils, and Water Resources. The No Action Alternative would result in long-term, minor adverse impacts to both Air Quality and Utilities as a result of continued use of existing emission sources and facilities on the FY19-23 FRP list.

VECs with negligible effects under the Action Alternatives includes Biological Resources, Land Use, and Noise. Long-term, beneficial impacts would occur to Air Quality and Utilities from implementation of the Action Alternatives due to reductions in emissions and energy demands. Air Quality would also have short-term, minor adverse impacts from fugitive dust, but only during demolition activities. Other short-term, minor adverse impacts resulting from demolition activities would occur to Hazardous Materials and Waste, Soils, and Water Resources under the Action Alternatives and under Alternative 2 to Cultural Resources. The removal of historic buildings under Alternative 1 is expected to result in long-term, minor adverse impacts to Cultural Resources.

As discussed in Section 4, these negligible effects to minor adverse impacts do not result in significant adverse cumulative effects when considering all other past, present, and reasonably foreseeable future activities. Adherence to Federal and State laws and regulations, as well as Installation management plans, and Army Regulations would minimize impacts of demolition and disposal activities to the VECs (i.e., Air Quality, Biological Resources, Cultural Resources, Utilities, Hazardous Materials and Waste, Land Use, Noise, Soils, and Water Resources).

Implementation of either Action Alternative would have no significant impact on the quality of human life or the natural environment. Alternative 1, however, is more desirable in comparison due to its proficiency to further comply with the US Army TRADOC's IFRP and more recent Army efforts to optimize facility management through reductions to buildings and structures. A FNSI is warranted for this Proposed Action and it does not require the preparation of an EIS.

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7 ACRONYMS AND ABBREVIATIONS

| AAP | Army Alternate Procedures |
|-------------------|--|
| ACUB | Army Compatible Use Buffer |
| ACM | Asbestos-containing Materials |
| ACUB | Army Compatible Use Buffer |
| ADP | Area Development Plan |
| AL | Alabama |
| AR | Army Regulation |
| ARC | Army Reconnaissance Course |
| Army | U.S. Department of the Army |
| ASTM | American Society for Testing and Materials |
| BMP | Best Management Practice |
| BRAC | Base Realignment and Closure |
| CAA | Clean Air Act |
| CEQ | Council on Environmental Quality |
| CFR | Code of Federal Regulations |
| СО | Carbon Monoxide |
| CO ₂ e | Carbon Dioxide Equivalent |
| CWA | Clean Water Act |
| DoD | Department of Defense |
| DODI | Department of Defense Instruction |
| DPW | Directorate of Public Works |
| EA | Environmental Assessment |

| EAP | Environmental Action Plan |
|-------|---|
| EIS | Environmental Impact Statement |
| EMD | Environmental Management Division |
| EO | Executive Order |
| EPA | U.S. Environmental Protection Agency |
| ESA | Endangered Species Act |
| FEMA | Federal Emergency Management Agency |
| FIFRA | Federal Insecticide, Fungicide, and Rodenticide Act |
| FNSI | Finding of No Significant Impact |
| FRP | Facility Reduction Program |
| FY | Fiscal Year |
| GA | Georgia |
| GHG | Greenhouse Gas |
| HABS | Historic American Building Survey |
| HPC | Historical Properties Component |
| HVAC | Heating, ventilation, and air conditioning |
| IAP | Installation Action Plan |
| ICRMP | Integrated Cultural Resources Management Plan |
| IFRP | Infrastructure Footprint Reduction Program |
| INRMP | Integrated Natural Resources Management Plan |
| LBP | Lead-based Paint |
| LUPZ | Land Use Planning Zone |
| MCoE | Maneuver Center of Excellence |
| | |

| MMBtu/Hr | Million British thermal units per hour |
|-----------------|--|
| MRF | Material Recycling Facility |
| MW | Megawatt |
| NAAQS | National Ambient Air Quality Standards |
| NAGPRA | Native American Graves and Protection and Repatriation Act |
| NEPA | National Environmental Policy Act |
| NHPA | National Historic Preservation Act |
| NO ₂ | Nitrogen Dioxide |
| NOI | Notice of Intent |
| NPDES | National Pollutant Discharge Elimination System |
| NRHP | National Register of Historic Places |
| O ₃ | Ozone |
| Pb | Lead |
| РСВ | polychlorinated biphenyl |
| PM2.5 | Particulate Matter with a Diameter Less Than or Equal to 2.5 Micrometers |
| PM10 | Particulate Matter with a Diameter Less Than or Equal to 10 Micrometers |
| POL | Petroleum, oil, and lubricants |
| PSD | Prevention of Significant Deterioration |
| PV | Photovoltaic |
| RCRA | Resource Conservation and Recovery Act |
| RCW | Red-cockaded Woodpecker |
| ROI | Region of Influence |
| SHPO | State Historic Preservation Office |
| | |

| SO ₂ | Sulfur Dioxide |
|-----------------|------------------------------------|
| SOP | Standard Operating Procedures |
| SWMU | Solid Waste Management Unit |
| TCE | Trichloroethylene |
| TRADOC | Army Training and Doctrine Command |
| TSCA | Toxic Substances Control Act |
| USC | US Code |
| UEA | Unique Ecological Area |
| US | United States |
| USACE | US Army Corps of Engineers |
| USAEC | US Army Environmental Command |
| USFWS | US Fish and Wildlife Service |
| VEC | Valued Environmental Component |

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Elected and Appointed Government Officials

Local and Regional Administrators, Federal Agencies, or Commissions with Regulatory Interest in Fort Benning

| U.S. Fish & Wildlife Service West Georgia Office P.O. Box 52560 Fort Benning, GA 31905 | GSWCC, Region 5 4310 Lexington Rd Dawson, GA 39842 | GA DNR, EPD Director's Office 2 Martin Luther King Jr. Dr SE, Suite 1456, East Tower Atlanta, GA 30334 |
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| GA DNR Commissioner's Office 2 Martin Luther King Jr. Dr, SE, Suite 1252, East Tower Atlanta, GA 30334 | ADEM Office of the Director P.O. Box 301463 Montgomery, AL 36130 | USDA NRCS State Office Water Resources 355 East Hancock Ave, Suite 13 Athens, GA 30601 |
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| The Nature Conservancy Chattahoochee Fall Line Office P.O. Box 52452 Columbus, GA 31905 | Defenders of Wildlife National HQ 1130 17 th St NW Washington, DC 20036 | Southern Environmental Law Ctr. Director 127 Peachtree St, Suite 605 Atlanta, GA 30303 |
| The Valley Partnership P.O. Box 1200 Columbus, GA 31902 | Chamber of Commerce Phenix City-Russell County 1107 Broad St Phenix City, AL 36867 | Georgia Wildlife Federation 11600 Hazelbrand Rd, NE Covington, GA 30014 |
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| Columbus Public Library 3000 Macon Rd Columbus, GA 31906 | Phenix City-Russell County Library 1501 17 th Ave Phenix City, AL 36867 | Family and Morale Welfare and Recreation Library 7611 Sightseeing Rd, Building 2784 Fort Benning, GA 31905 |
| Cusseta-Chattahoochee Public Library 262 Broad St Cusseta, GA 31805 | | |

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APPENDIX A

FORT BENNING FACILITIES REDUCTION PROGRAM DEMOLITION LIST

Fort Benning Facilities Reduction Program List

| Building No. | Year Constructed | HABS/HAER | Building Description | Square Feet | Location | Proposed Demolition FY |
|--------------|---------------------|-----------|----------------------|-------------|--------------|---------------------------|
| 65 | 1930 | REQUIRED | GEN PURP ADMIN | 3610 | Wold Ave | 2019 |
| 77 | 1934 | REQUIRED | HEAT PL BLDG | 998 | Gillespie St | 2019 |
| 92 | 1939 | REQUIRED | DET FIRE ST SPT | 853 | Vibbert Ave | 2019 |
| 100 | 1941 | NA | COLD STR INST | 32891 | Upton Ave | 2019 |
| 221 | 1934 | COMPLETED | VEH STOR INST | 12205 | Wold Ave | 2019 |
| 222 | 1934 | COMPLETED | VEH STOR INST | 7625 | Wold Ave | 2019 |
| 229 | 1923 | NA | PVT/ORG CLUB | 19793 | Ingersoll St | 2019 |
| 233 | 1923 | REQUIRED | STORAGE GP INST | 3840 | Upton Ave | 2019 |
| 235 | 1921 | NA | ADMIN GEN PURP | 4390 | Gillespie St | 2019 |
| 239 | 1923 | REQUIRED | FAM LIFE CTR | 2817 | Wold Ave | 2019 |
| 249 | 1940 | COMPLETED | VEH STG INST | 2750 | Bill St | 2019 |
| 267 | 1935 | COMPLETED | VETERINARY FACILITY | 1175 | 10th Div Ct | 2019 |
| 281 | 1991 | NA | STORAGE GP INST | 192 | Towne St | 2019 |
| 305 | 1929 | Draft | RECREATION CTR | 4083 | Ingersoll St | 2019 |
| 319 | 1941 | REQUIRED | STORAGE GP INST | 919 | Bradshaw Rd | 2019 |
| 328 | 1949 | REQUIRED | GEN PURP ADMIN | 7495 | Ingersoll St | 2019 |
| 330 | 1935 | REQUIRED | ENG/HOUSING MNT | 2000 | 10th Div Rd | 2019 |
| 357 | 1935 | NA | PWR PLT BLDG | 480 | Ingersoll St | 2019 |
| 381 | 1926 | REQUIRED | HEAT PL BLDG | 704 | Ingersoll St | 2019 |
| 491 | 1976 | NA | ENG/HOUSING MNT | 3720 | Anderson St | 2019 |
| 960 | 1957 | NA | CO HQ BLDG | 11110 | Michael St | 2019 |
| 961 | 1957 | NA | ENLIST UPH, WTU | 11110 | Michael St | 2019 |
| 966 | 1957 | NA | ENLIST UPH, WTU | 11110 | Dixie Rd | 2019 |
| 973 | 1953 | NA | UOQ MILITARY | 14240 | Lincoln St | 2019 |
| 976 | 1953 | NA | UOQ MILITARY | 13879 | Lincoln St | 2019 |
| 977 | 1992 | NA | REF/A-C BLDG | 784 | Lincoln St | 2019 |
| 1045 | 1958 | COMPLETED | DEPENDENT SCHOOL | SF | First Div Rd | 2019 |
| 1049 | 1966 | COMPLETED | MNT SHP, GEN PURP | 2198 | First Div Rd | 2019 |
| 1367 | 1967 | NA | PRINT PLANT BLDG | 5519 | Compton St | 2019 |
| 1369 | 1967 | NA | GEN INST BLDG | 5519 | Compton St | 2019 |

| Building No. | Year Constructed | HABS/HAER | Building Description | Square Feet | Location | Proposed Demolition FY |
|--------------|---------------------|-----------|----------------------|-------------|----------------|---------------------------|
| 1695 | 1974 | NA | DISPATCH BLDG | 2400 | Marchant St | 2019 |
| 1705 | 1967 | NA | MNT STORAGE DOL | 215 | 10th Div Ct | 2019 |
| 1720 | 1967 | NA | STR SHED GP INS | 2068 | 10th Div Ct | 2020 |
| 1721 | 1967 | NA | STR SHED GP INS | 1904 | 10th Div Ct | 2020 |
| 1722 | 2006 | NA | STR SHED GP INS | 1680 | Gillespie St | 2020 |
| 1725 | 1956 | NA | OIL STR BLD DOL | 246 | 10th Div Ct | 2020 |
| 1792 | 1942 | NA | STORAGE GP INST | 10200 | Upton Ave | 2019 |
| 1835 | 2004 | NA | STORAGE GP INST | 192 | Mitchell Ave | 2019 |
| 1836 | 1938 | REQUIRED | GEN PURP ADMIN | 2998 | Mitchell Ave | 2019 |
| 2291 | 1985 | NA | GAS CHAMBER | 1152 | Alekno St | 2019 |
| 2294 | 1967 | NA | ORG CLASSROOM | 5614 | Alekno St | 2019 |
| | | | | | Indianhead & | |
| 2296 | 1979 | NA | SEP TOIL/SHOWER | 468 | Alekno Rd | 2019 |
| 2394 | 2005 | NA | BN HQ BLDG | 8119 | Goltra Ct | 2019 |
| 2486 | 1964 | NA | AC MAINT HANGAR | 25817 | Jacelin St | 2019 |
| 2580 | 1963 | NA | ORG STR BLDG | 1943 | Indianhead Rd | 2019 |
| 2593 | 1941 | NA | ABN EQ/PARA REP | 13644 | Indianhead Rd | 2019 |
| 2665 | 1951 | NA | GEN PURP ADMIN | 2244 | Custer Rd | 2020 |
| 2666 | 1951 | NA | ORG STR BLDG | 2886 | Custer Rd | 2020 |
| 2667 | 1951 | NA | GEN PURP ADMIN | 8421 | Custer Rd | 2020 |
| 2668 | 1951 | NA | GEN PURP ADMIN | 3824 | Custer Rd | 2020 |
| 2669 | 1951 | NA | GEN PURP ADMIN | 5757 | Custer Rd | 2020 |
| 2670 | 1951 | NA | GEN PURP ADMIN | 5844 | Custer Rd | 2020 |
| 2680 | 1947 | NA | ORG STR BLDG | 302 | Benning Blvd | 2020 |
| 2746 | 1977 | NA | REF/A-C BLDG | 2660 | Benjamin St | 2019 |
| 2759 | 1954 | NA | BN HQ BLDG | 2578 | Sightseeing Rd | 2020 |
| 2767 | 1958 | NA | ORG CLASSROOM | 3555 | Riordon St | 2020 |
| 2768 | 1958 | NA | BN HQ BLDG | 3555 | Burr St | 2020 |
| 2769 | 1958 | NA | ORG CLASSROOM | 3555 | Burr St | 2020 |
| 2773 | 1954 | NA | DISPATCH BLDG | 192 | Lavoie Ave | 2019 |
| 2774 | 1954 | NA | FUEL/POL BLDG | 192 | Lavoie Ave | 2019 |
| 2775 | 1954 | NA | VEH MAINT SHOP | 5038 | Indianhead Rd | 2019 |

| Building No. | Year Constructed | HABS/HAER | Building Description | Square Feet | Location | Proposed Demolition FY |
|--------------|---------------------|-----------|----------------------|-------------|------------------|---------------------------|
| 2778 | 2005 | NA | COMP ITEM REP | 121 | Indianhead Rd | 2019 |
| 2779 | 1957 | NA | VEH MAINT SHOP | 5038 | Indianhead Rd | 2019 |
| 2780 | 1957 | NA | VEH MAINT SHOP | 5038 | Indianhead Rd | 2019 |
| 2781 | 1957 | NA | VEH MAINT SHOP | 5038 | Indianhead Rd | 2019 |
| 2782 | 1957 | NA | FLAM MAT STR IN | 120 | Indianhead Rd | 2019 |
| 2824 | 1957 | NA | ADMIN/SHOP DOL | 3555 | Sightseeing Rd | 2019 |
| 2825 | 1958 | NA | BN HQ BLDG | 3555 | Sightseeing Rd | 2019 |
| | | | | | Sightseeing Rd & | |
| 2830 | 1954 | NA | GEN PURP ADMIN | 2578 | 1st Inf BDE Lp | 2019 |
| 2831 | 1954 | NA | ENLISTED UPH | 40536 | 1st Inf BDE Lp | 2019 |
| 2835 | 1954 | NA | BN HQ BLDG TT | 2578 | Way Ave | 2019 |
| 2836 | 1954 | NA | ENLISTED UPH | 40536 | 1st Inf BDE Lp | 2019 |
| 2837 | 1954 | NA | TRANS UPH AST | 40536 | 1st Inf BDE Lp | 2019 |
| 2838 | 1954 | NA | TRANS UPH AST | 40536 | 1st Inf BDE Lp | 2019 |
| 2849 | 1954 | NA | ORG STR BLDG | 200 | Way Ave | 2019 |
| 2850 | 1952 | NA | ADMIN GEN PURP | 2419 | Sightseeing Rd | 2019 |
| 2901 | 1947 | NA | ORG STR BLDG | 11136 | Sightseeing Rd | 2019 |
| 2902 | 1947 | NA | ORG STR BLDG | 1650 | Sightseeing Rd | 2019 |
| 2903 | 1947 | NA | ADMIN GEN PURP | 2128 | Sightseeing Rd | 2019 |
| 3708 | 2005 | NA | STR SHED GP INS | 1845 | 75th Inf Reg St | 2021 |
| 3716 | 1941 | NA | REPAIR BAY, DOL | 20770 | 75th Inf Reg St | 2021 |
| 3733 | 1942 | NA | HEAT PLT BLDG | 660 | 75th Inf Reg St | 2021 |
| 3739 | 1976 | NA | MNT STORAGE DOL | 1552 | 75th Inf Reg St | 2021 |
| 3742 | 1941 | NA | MNT STORAGE DOL | 1748 | 75th Inf Reg St | 2021 |
| 3744 | 1941 | NA | MNT STORAGE DOL | 3166 | 187th Inf Reg St | 2021 |
| 3745 | 1941 | NA | VEH PHT/PREP DEL | 2740 | 11th Abn Div | 2021 |
| 3746 | 1941 | NA | ADMIN/SHOP DOL | 7083 | 75th Inf Reg St | 2019 |
| 4218 | 1998 | NA | EXCHANGE BRANCH | 485 | 8th Div Rd | 2017 |
| 4219 | 2005 | NA | ORG STR BLDG | 577 | 8th Div Rd | 2017 |
| 4883 | 1967 | NA | CO HQ BLDG | 2600 | Duke Ave | 2019 |
| 4960 | 1981 | NA | VEH MAINT SHOP | 3335 | Jamestown Rd | 2020 |
| 4965 | 1968 | NA | CO HQ BLDG | 7703 | Jamestown Rd | 2019 |

| Building No. | Year Constructed | HABS/HAER | Building Description | Square Feet | Location | Proposed Demolition FY |
|--------------|---------------------|-----------|----------------------|-------------|-----------------|---------------------------|
| 4977 | 1967 | NA | VEH MAINT SHOP | 192 | Crosbie Rd | 2019 |
| 4978 | 2004 | NA | HAZ MAT STR INS | 630 | Crosbie Rd | 2019 |
| 4979 | 1967 | NA | VEH MAINT SHOP | 400 | Crosbie Rd | 2019 |
| 5500 | 1988 | NA | VEH MAINT INST | 93559 | Bradley Dr | 2019 |
| 5879 | 1972 | NA | STR SHED GP INS | 7488 | Rykus Ave | 2019 |
| 5967 | 1943 | NA | IGLOO STR INST | 2421 | 1st Div Rd | 2019 |
| 5968 | 1943 | NA | IGLOO STR INST | 1813 | 1st Div Rd | 2019 |
| 5969 | 1943 | NA | IGLOO STR INST | 1813 | 1st Div Rd | 2019 |
| 5971 | 1943 | NA | IGLOO STR INST | 1813 | 1st Div Rd | 2019 |
| 5974 | 1945 | NA | IGLOO STR INST | 400 | 1st Div Rd | 2020 |
| 5975 | 1945 | NA | IGLOO STR INST | 400 | 1st Div Rd | 2020 |
| 5976 | 1945 | NA | IGLOO STR INST | 400 | 1st Div Rd | 2020 |
| 5977 | 1945 | NA | IGLOO STR INST | 400 | 1st Div Rd | 2020 |
| 5993 | 1967 | NA | STORAGE GP INST | 960 | 1st Div Rd- | 2019 |
| 8552 | 2008 | NA | RNG OPNS BLDG | 108 | Hourglass Rd | 2021 |
| 8593 | 1976 | NA | RANGE OPNS BLDG | 800 | Jamestown Rd | 2019 |
| 8718 | 1980 | NA | SEP TOIL/SHOWER | 192 | Steam Mill Rd | 2021 |
| | | | | | 2nd Armored Div | |
| 8730 | 1979 | NA | RANGE OPNS BLDG | 800 | Rd | 2021 |
| 8780 | 1965 | NA | RANGE OPNS BLDG | 1007 | Orion Rd | 2021 |
| 8782 | 1965 | NA | RANGE OPNS BLDG | 1007 | Orion Rd | 2021 |
| 8787 | 1969 | NA | RANGE OPNS BLDG | 1007 | Orion Rd | 2021 |
| 9003 | 1957 | NA | BN HQ BLDG | 2578 | Watkins Ave | 2019 |
| 9030 | 1957 | NA | DISPATCH BLDG | 192 | Marne Rd | 2019 |
| 9031 | 1957 | NA | FUEL/POL BLDG | 192 | Marne Rd | 2019 |
| 9032 | 1959 | NA | VEH MAINT SHOP | 5038 | Marne Rd | 2019 |
| 9033 | 1959 | NA | VEH MAINT SHOP | 5038 | Marne Rd | 2019 |
| 9034 | 1957 | NA | VEH MAINT SHOP | 5038 | Marne Rd | 2019 |
| 9035 | 1957 | NA | VEH MAINT SHOP | 5038 | Marne Rd | 2019 |
| 9037 | 1957 | NA | OIL STR BLDG | 120 | Marne Rd | 2019 |
| 9038 | 1959 | NA | OIL STR BLDG | 120 | Marne Rd | 2019 |
| 9042 | 1964 | NA | DISPATCH BLDG | 192 | Marne Rd | 2019 |

| Building No. | Year Constructed | HABS/HAER | Building Description | Square Feet | Location | Proposed Demolition FY |
|--------------|---------------------|-----------|-------------------------|-------------|----------------|---------------------------|
| 9064 | 1975 | NA | AUTO SKILL CTR | 16556 | Marne Rd | 2020 |
| 9105 | 1976 | NA | ADMIN/SHOP CONT | 3691 | Ivy Rd | 2019 |
| 9200 | 1939 | NA | MED CTR/HOSP | 393077 | Marne Rd | 2019 |
| 9201 | 1958 | NA | REF/A-C BLDG | 1721 | Ireland Rd | 2019 |
| 9202 | 1958 | NA | HEAT PLT BLDG | 6590 | Ireland Rd | 2019 |
| 9208 | 2004 | NA | ADMIN GEN PURP | 2442 | Marne Rd | 2019 |
| 9211 | 2005 | NA | ADMIN GEN PURP | 8856 | Bass Rd | 2019 |
| 9223 | 1967 | NA | FLAM MAT STR IN | 336 | Bass Rd | 2020 |
| M6362 | 2010 | NA | STR SHED GP INS | 1000 | Spangler Plaza | 2020 |
| M6644 | 2007 | NA | MISC SHED | 113 | Spangler Plaza | 2020 |
| M6647 | 1976 | NA | STR SHED GP INS | 2000 | 10th Div Rd | 2019 |
| M6705 | 1977 | NA | COOLING TOWER | 867 | Benjamin St | 2019 |
| M7085 | 2008 | NA | OVERHEAD GAS PUMP | 1015 | 1st Div Rd | 2019 |
| M9313 | 1957 | NA | GREASE RACK | NA | Marne Rd | 2019 |
| M9314 | 1957 | NA | GREASE RACK | NA | Marne Rd | 2019 |
| M9741 | 2010 | NA | UNDG STG TANK WASTE POL | 2500 | Marne Rd | 2020 |
| M9742 | 2010 | NA | COVERED STG AREA | 1050 | Marne Rd | 2020 |
| M9749 | 2014 | NA | WASH PLAT ORG | NA | Buena Vista Rd | 2020 |
| P8044 | c.1993 | NA | BATTLE LAB | 800 | 1st Div Rd | 2019 |
| M6172 | 1967 | NA | CONFIDENCE CSE | NA | Way Ave | 2019 |
| PUMPS | c.1993 | NA | GAS PUMPS | NA | Lovoie Ave | 2019 |
| | | | | | 8th Div & | |
| SIREN | 1978 | NA | SIREN | NA | Jamestown Rd | 2019 |

APPENDIX B

FORT BENNING FACILITIES REDUCTION PROGRAM ECONOMIC ANALYSIS

Date Generated: 12 June 2018 Time Generated: 16.38.21 Version: ECONPACK 4.0.32

Building 65 Disposal Economic Analysis

Executive Summary Report

| Project Title | Facilities Reduction Program | | | |
|--------------------|---|--|--|--|
| Type of Analysis | :Mission Requirement - Full | | | |
| Discount Rate | :2.5% | | | |
| Period of Analysis | :20 years | | | |
| Start Year | :2018 | | | |
| Base Year | :2018 | | | |
| Dollar Analysis | :Current Dollars | | | |
| Project Objective | :To determine the most economical course of action for Building 65 | | | |
| | that meets the EXORD requirement to reduce excess square footage. | | | |

Background:

Building 65 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 3,610*10 = \$36,100. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for something in the Category Code Group 214. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 3,610*55 = \$198,550. However, there currently is an excess of space in most of these category codes and converting into this category would violate the intent of the Exord. This is a viable alternative This is a viable alternative.

Other DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*3,610 = \$198,550. Due to the location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable. This is a viable alternative. Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*3,610 = \$1191/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost.

This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

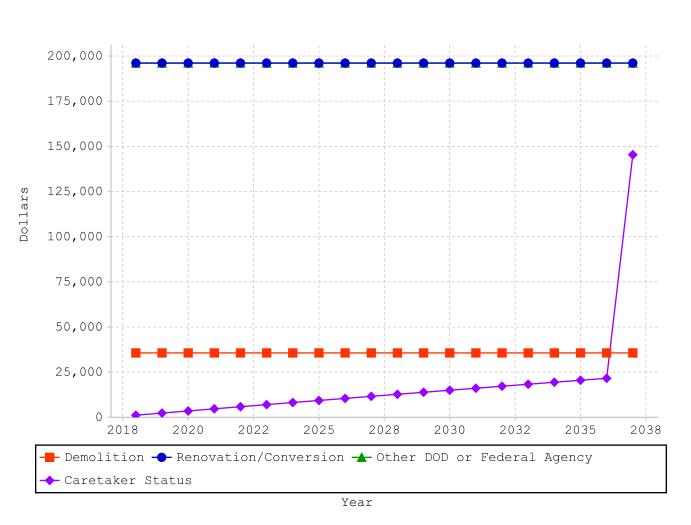
Economic Indicators:

| Alternative | NPV | |
|-----------------------------|---------------------|--|
| Demolition | \$ 35,657 | |
| Renovation/Conversion | \$ 196 , 114 | |
| Other DOD or Federal Agency | \$ 196 , 114 | |
| Caretaker Status | \$ 145,367 | |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 65 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | :Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|-------------------|------------------------------------|
| 2018 | \$36,100 | \$36,100 | 0.988 | \$35 , 657 | \$35 , 657 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$35 , 657 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$35,657 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$35,657 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$35 , 657 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$35,657 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$35 , 657 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$35,657 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$35 , 657 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$35,657 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$35 , 657 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$35,657 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$35 , 657 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$35,657 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$35 , 657 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$35,657 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$35 , 657 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$35,657 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$35 , 657 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$35 , 657 |
| %NPV | 100.00% | | | | |
| | \$35 , 657 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Discount Data | - 0 E 9 | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$198 , 550 | \$198 , 550 | 0.988 | \$196,114 | \$196,114 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$196,114 |
| 2020 | \$ O | \$0 | 0.94 | \$0 | \$196,114 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$196,114 |
| 2022 | \$ O | \$0 | 0.895 | \$0 | \$196,114 |
| 2023 | \$O | \$0 | 0.873 | \$0 | \$196,114 |
| 2024 | \$ O | \$0 | 0.852 | \$0 | \$196,114 |
| 2025 | \$O | \$0 | 0.831 | \$0 | \$196,114 |
| 2026 | \$ O | \$0 | 0.811 | \$0 | \$196,114 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$196,114 |
| 2028 | \$ O | \$0 | 0.772 | \$0 | \$196,114 |
| 2029 | \$O | \$0 | 0.753 | \$0 | \$196,114 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$196,114 |
| 2031 | \$O | \$0 | 0.717 | \$0 | \$196,114 |
| 2032 | \$ O | \$0 | 0.699 | \$0 | \$196,114 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$196,114 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$196,114 |
| 2035 | \$O | \$0 | 0.649 | \$0 | \$196,114 |
| 2036 | \$ O | \$0 | 0.633 | \$0 | \$196,114 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$196,114 |
| %NPV | 100.00% | | | | |
| | \$196,114 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| Diagount Data. | 2 E º. | | | | |

Alternative: Other DOD or Federal Agency

| Year | Other DOD or Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$198,550 | \$198 , 550 | 0.988 | \$196,114 | \$196,114 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$196,114 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$196,114 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$196,114 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$196,114 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$196,114 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$196,114 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$196,114 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$196,114 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$196,114 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$196,114 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$196,114 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$196,114 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$196,114 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$196,114 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$196,114 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$196,114 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$196,114 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$196,114 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$196,114 |
| %NPV | 100.00% | | | | |
| | \$196,114 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Diagount Data | • 0 E % | | | | |

Alternative: Caretaker Status

| Year | Caretaker F Status | Renovation/Con version | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|-----------------------|---------------------------|----------------------------|--|--------------------|
| 2018 | \$1,203 | \$0 | \$1,203 | 0.988 | \$1,188 |
| 2019 | \$1,227 | \$0 | \$1,227 | 0.964 | \$1,182 |
| 2020 | \$1 , 251 | \$0 | \$1,251 | 0.94 | \$1,177 |
| 2021 | \$1,276 | \$0 | \$1,276 | 0.917 | \$1,171 |
| 2022 | \$1,302 | \$0 | \$1,302 | 0.895 | \$1,165 |
| 2023 | \$1,328 | \$0 | \$1,328 | 0.873 | \$1,159 |
| 2024 | \$1 , 355 | \$0 | \$1 , 355 | 0.852 | \$1,154 |
| 2025 | \$1,382 | \$0 | \$1,382 | 0.831 | \$1,148 |
| 2026 | \$1,409 | \$0 | \$1,409 | 0.811 | \$1,143 |
| 2027 | \$1,438 | \$0 | \$1,438 | 0.791 | \$1,137 |
| 2028 | \$1,466 | \$0 | \$1,466 | 0.772 | \$1,131 |
| 2029 | \$1,496 | \$0 | \$1,496 | 0.753 | \$1,126 |
| 2030 | \$1,526 | \$0 | \$1,526 | 0.734 | \$1,120 |
| 2031 | \$1,556 | \$0 | \$1,556 | 0.717 | \$1,115 |
| 2032 | \$1,587 | \$0 | \$1,587 | 0.699 | \$1,109 |
| 2033 | \$1,619 | \$0 | \$1,619 | 0.682 | \$1,104 |
| 2034 | \$1,651 | \$0 | \$1,651 | 0.665 | \$1,099 |
| 2035 | \$1,684 | \$0 | \$1,684 | 0.649 | \$1,093 |
| 2036 | \$1,718 | \$0 | \$1,718 | 0.633 | \$1,088 |
| 2037 | \$1,752 | \$198 , 550 | \$200,302 | 0.618 | \$123 , 757 |
| %NPV | 15.61% | 84.39% | | | |
| | \$22,692 | \$122,675 | | | |
| Discounting Convention | М-О-У | М-О-У | | | |
| Inflation Schedule | 2017 General | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$1,188 | |
| 2019 | \$2,370 | |
| 2020 | \$3,547 | |
| 2021 | \$4,718 | |
| 2022 | \$5,883 | |
| 2023 | \$7,042 | |
| 2024 | \$8,196 | |
| 2025 | \$9,344 | |
| 2026 | \$10,487 | |
| 2027 | \$11,623 | |
| 2028 | \$12,755 | |
| 2029 | \$13,881 | |
| 2030 | \$15,001 | |
| 2031 | \$16,116 | |
| 2032 | \$17,226 | |
| 2033 | \$18,330 | |
| 2034 | \$19,428 | |
| 2035 | \$20 , 522 | |
| 2036 | \$21,610 | |
| 2037 | \$145 , 367 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*3610= \$36,100

- 2. Renovation/Conversion
 - a. Renovation/ Conversion

To be made practical, this building would require total renovation to include repairing

or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*3,610 = \$198,550

- 3. Other DOD or Federal Agency
 - a. Other DOD or Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*3,610 = \$198,550.

Due to the relatively small size of this building (3,610 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

4. Caretaker Status

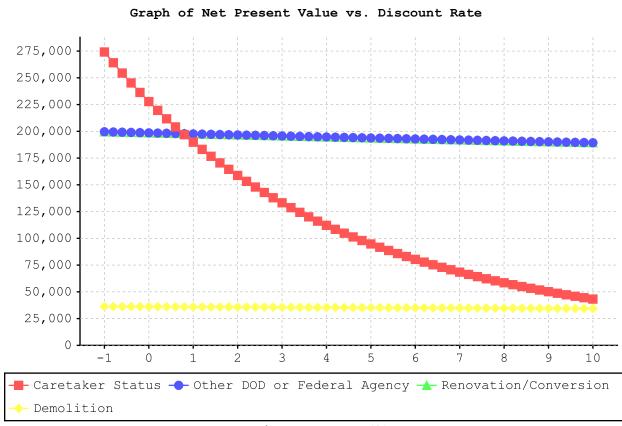
a. Caretaker Status

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation/Conversion

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred

at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 0.7 %

Discount Rate (%)

Dollars

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Table of Net Present Values for each Discount Rate

| Discount Rate = | -1.0% | Discount Rate = | 0.6% |
|--|---|---|---|
| Demolition | \$ 36,282 | Demolition | \$ 35,992 |
| Other DOD or Federal Agency | \$ 199,550 | Other DOD or Federal Agency | \$ 197,957 |
| Renovation/Conversion | \$ 199,550 | Renovation/Conversion | \$ 197,957 |
| Caretaker Status | \$ 274,121 | Caretaker Status | \$ 204,126 |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Demolities | ¢ 26 245 | Demolities | |
| Demolition | \$ 36,245 | Demolition | \$ 35,956 |
| Other DOD or Federal Agency Renovation/Conversion | \$ 199,349 \$ 199,349 | Caretaker Status | \$ 196,852 \$ 197,761 |
| Caretaker Status | \$ 264,088 | Other DOD or Federal Agency Renovation/Conversion | \$ 197,761 |
| Caletaker Status | ₽ 204 , 000 | Kenovacion/conversion | \$ 197,101 |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Demolition | \$ 36,209 | Demolition | \$ 35,921 |
| Other DOD or Federal Agency | \$ 199,148 | Caretaker Status | \$ 189,861 |
| Renovation/Conversion | \$ 199 , 148 | Other DOD or Federal Agency | \$ 197 , 565 |
| Caretaker Status | \$ 254,453 | Renovation/Conversion | \$ 197,565 |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Demolition | \$ 36,172 | Demolition | \$ 35,885 |
| Other DOD or Federal Agency | \$ 198,948 | Caretaker Status | \$ 183,142 |
| Renovation/Conversion | \$ 198,948 | Other DOD or Federal Agency | \$ 197,369 |
| Caretaker Status | \$ 245,200 | Renovation/Conversion | \$ 197,369 |
| | | | |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Discount Rate = | | Discount Rate = | |
| | -0.2% \$ 36,136 \$ 198,749 | | 1.4% \$ 35,850 \$ 176,684 |
| Demolition | \$ 36,136 | Demolition | \$ 35,850 |
| Demolition Other DOD or Federal Agency | \$ 36,136 \$ 198,749 | Demolition Caretaker Status | \$ 35,850 \$ 176,684 |
| Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 \$ 227,776 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 \$ 196,980 \$ 196,980 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 \$ 227,776 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 \$ 196,980 \$ 196,980 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 \$ 227,776 0.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 \$ 196,980 \$ 196,980 \$ 196,980 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 \$ 227,776 0.2% \$ 36,064 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 \$ 196,980 \$ 196,980 \$ 196,980 1.8% \$ 35,779 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 \$ 227,776 0.2% \$ 36,064 \$ 198,352 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 \$ 196,980 \$ 196,980 1.8% \$ 35,779 \$ 164,507 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 \$ 227,776 0.2% \$ 36,064 \$ 198,352 \$ 198,352 \$ 219,575 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 \$ 196,980 \$ 196,980 1.8% \$ 35,779 \$ 164,507 \$ 196,787 \$ 196,787 \$ 196,787 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 \$ 227,776 0.2% \$ 36,064 \$ 198,352 \$ 198,352 \$ 219,575 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 \$ 196,980 \$ 196,980 1.8% \$ 35,779 \$ 164,507 \$ 196,787 \$ 196,787 \$ 196,787 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 \$ 227,776 0.2% \$ 36,064 \$ 198,352 \$ 198,352 \$ 198,352 \$ 219,575 0.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 \$ 196,980 \$ 196,980 1.8% \$ 35,779 \$ 164,507 \$ 196,787 \$ 196,787 \$ 196,787 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 \$ 227,776 0.2% \$ 36,064 \$ 198,352 \$ 198,352 \$ 198,352 \$ 219,575 0.4% \$ 36,028 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 \$ 196,980 \$ 196,980 1.8% \$ 35,779 \$ 164,507 \$ 196,787 \$ 196,787 \$ 196,787 \$ 196,787 \$ 196,787 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 36,136 \$ 198,749 \$ 198,749 \$ 236,313 -0.0% \$ 36,100 \$ 198,550 \$ 198,550 \$ 227,776 0.2% \$ 36,064 \$ 198,352 \$ 198,352 \$ 219,575 0.4% \$ 36,028 \$ 198,154 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,850 \$ 176,684 \$ 197,175 \$ 197,175 1.6% \$ 35,815 \$ 170,475 \$ 196,980 \$ 196,980 1.8% \$ 35,779 \$ 164,507 \$ 196,787 \$ 196,787 \$ 196,787 \$ 196,787 \$ 196,787 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Table of Net Present Values for each Discount Rate

| Discount Rate = | 2.2% | Discount Rate = | 3.8% |
|---|---|---|--|
| Demolition | \$ 35,709 | Demolition | \$ 35,433 |
| Caretaker Status | \$ 153,250 | Caretaker Status | \$ 116,044 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 194,882 |
| Renovation/Conversion | \$ 196 , 401 | Renovation/Conversion | \$ 194,882 |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Demolition | \$ 35,674 | Demolition | \$ 35,399 |
| Caretaker Status | \$ 147,943 | Caretaker Status | \$ 112,149 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 196 , 209 | Renovation/Conversion | \$ 194,694 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Demolition | \$ 35,640 | Demolition | \$ 35 , 365 |
| Caretaker Status | \$ 142,840 | Caretaker Status | \$ 108,401 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 194 , 507 |
| Renovation/Conversion | \$ 196,018 | Renovation/Conversion | \$ 194 , 507 |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Demolition | \$ 35,605 | Demolition | \$ 35,331 |
| Caretaker Status | \$ 137,931 | Caretaker Status | \$ 104 , 793 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 195,827 | Renovation/Conversion | \$ 194,321 |
| | | | |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| Discount Rate = | \$ 35,570 | Discount Rate = | \$ 35,297 |
| Demolition Caretaker Status | \$ 35,570 \$ 133,209 | Demolition Caretaker Status | \$ 35,297 \$ 101,319 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,570 \$ 133,209 \$ 195,637 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,297 \$ 101,319 \$ 194,135 |
| Demolition Caretaker Status | \$ 35,570 \$ 133,209 | Demolition Caretaker Status | \$ 35,297 \$ 101,319 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 \$ 194,135 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 \$ 193,950 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 \$ 195,447 \$ 195,447 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 \$ 193,950 \$ 193,950 \$ 193,950 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 \$ 195,447 \$ 195,447 3.4% \$ 35,502 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 \$ 193,950 \$ 193,950 \$ 193,950 \$ 193,950 \$ 193,950 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 \$ 195,447 3.4% \$ 35,502 \$ 124,296 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 \$ 193,950 \$ 193,950 \$ 193,950 \$ 193,950 \$ 193,950 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 \$ 195,447 3.4% \$ 35,502 \$ 124,296 \$ 195,258 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 \$ 193,950 \$ 193,950 5.0% \$ 35,230 \$ 94,755 \$ 193,765 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 \$ 195,447 3.4% \$ 35,502 \$ 124,296 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 \$ 193,950 \$ 193,950 \$ 193,950 \$ 193,950 \$ 193,950 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 \$ 195,447 3.4% \$ 35,502 \$ 124,296 \$ 195,258 \$ 195,258 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 \$ 193,950 \$ 193,950 5.0% \$ 35,230 \$ 4,755 \$ 193,765 \$ 193,765 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 \$ 195,447 3.4% \$ 35,502 \$ 124,296 \$ 195,258 \$ 195,258 \$ 195,258 \$ 195,258 \$ 195,258 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 \$ 193,950 \$ 193,950 5.0% \$ 35,230 \$ 94,755 \$ 193,765 \$ 19 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 \$ 195,447 3.4% \$ 35,502 \$ 124,296 \$ 195,258 \$ 195,258 \$ 195,258 \$ 195,258 \$ 195,258 \$ 195,258 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 \$ 193,950 \$ 193,950 5.0% \$ 35,230 \$ 94,755 \$ 193,765 \$ 193,655 \$ 193,655 \$ 193,655\\ \$ 19 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,570 \$ 133,209 \$ 195,637 \$ 195,637 3.2% \$ 35,536 \$ 128,667 \$ 195,447 \$ 195,447 3.4% \$ 35,502 \$ 124,296 \$ 195,258 \$ 195,258 \$ 195,258 \$ 195,258 \$ 195,258 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,297 \$ 101,319 \$ 194,135 \$ 194,135 4.8% \$ 35,264 \$ 97,975 \$ 193,950 \$ 193,950 5.0% \$ 35,230 \$ 94,755 \$ 193,765 \$ 19 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Table of Net Present Values for each Discount Rate

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|---|--|---|--|
| Demolition | \$ 35,163 | Demolition | \$ 34,899 |
| Caretaker Status | \$ 88,669 | Caretaker Status | \$ 68,404 |
| Other DOD or Federal Agency | \$ 193,397 | Other DOD or Federal Agency | \$ 191,946 |
| Renovation/Conversion | \$ 193,397 | Renovation/Conversion | \$ 191,946 |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Demolition | \$ 35 , 130 | Demolition | \$ 34 , 867 |
| Caretaker Status | \$ 85,793 | Caretaker Status | \$ 66,267 |
| Other DOD or Federal Agency | \$ 193,214 | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 193,214 | Renovation/Conversion | \$ 191,766 |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Demolition | \$ 35,097 | Demolition | \$ 34,834 |
| Caretaker Status | \$ 83,023 | Caretaker Status | \$ 64 , 207 |
| Other DOD or Federal Agency | \$ 193,031 | Other DOD or Federal Agency | \$ 191,588 |
| Renovation/Conversion | \$ 193,031 | Renovation/Conversion | \$ 191,588 |
| Discount Rate = | 6.0% | Discount Rate = | 7.6% |
| Demolition | \$ 35,063 | Demolition | \$ 34,802 |
| Caretaker Status | \$ 80,355 | Caretaker Status | \$ 62,222 |
| Other DOD or Federal Agency | \$ 192,849 | Other DOD or Federal Agency | \$ 191,410 |
| Renovation/Conversion | \$ 192,849 | Renovation/Conversion | \$ 191,410 |
| Discount Data - | | | 7 0 0 |
| Discount Rate = | 6.2% | Discount Rate = | 1.8% |
| Discount Rate = | \$ 35,030 | Discount Rate = | 7.8% \$ 34,769 |
| Demolition Caretaker Status | \$ 35,030 \$ 77,784 | Demolition Caretaker Status | \$ 34,769 \$ 60,308 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,030 \$ 77,784 \$ 192,667 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 34,769 \$ 60,308 \$ 191,232 |
| Demolition Caretaker Status | \$ 35,030 \$ 77,784 | Demolition Caretaker Status | \$ 34,769 \$ 60,308 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 \$ 191,055 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 \$ 192,486 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 \$ 191,055 \$ 191,055 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 \$ 192,486 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 \$ 191,055 \$ 191,055 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 \$ 192,920 \$ 192,920 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 \$ 191,055 \$ 191,055 \$ 191,055 \$ 34,705 \$ 56,682 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 \$ 192,486 \$ 192,486 6.6% \$ 34,965 \$ 72,920 \$ 192,305 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 \$ 191,055 \$ 191,055 8.2% \$ 34,705 \$ 56,682 \$ 190,878 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 \$ 192,920 \$ 192,920 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 \$ 191,055 \$ 191,055 \$ 191,055 \$ 34,705 \$ 56,682 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 \$ 192,486 \$ 192,486 6.6% \$ 34,965 \$ 72,920 \$ 192,305 \$ 192,305 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 \$ 191,055 \$ 191,055 \$ 191,055 8.2% \$ 34,705 \$ 56,682 \$ 190,878 \$ 190,878 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 \$ 192,486 \$ 192,486 6.6% \$ 34,965 \$ 72,920 \$ 192,305 \$ 192,305 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 \$ 191,055 \$ 191,055 \$ 191,055 8.2% \$ 34,705 \$ 56,682 \$ 190,878 \$ 190,878 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 \$ 192,486 \$ 192,486 \$ 192,486 \$ 192,486 \$ 192,305 \$ 192,305 \$ 192,305 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 \$ 191,055 \$ 191,055 \$ 191,055 8.2% \$ 34,705 \$ 56,682 \$ 190,878 \$ 190,878 \$ 190,878 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,030 \$ 77,784 \$ 192,667 \$ 192,667 6.4% \$ 34,997 \$ 75,307 \$ 192,486 \$ 192,486 \$ 192,486 6.6% \$ 34,965 \$ 72,920 \$ 192,305 \$ 192,305 \$ 192,305 \$ 192,305 \$ 192,305 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 34,769 \$ 60,308 \$ 191,232 \$ 191,232 8.0% \$ 34,737 \$ 58,462 \$ 191,055 \$ 191,055 \$ 191,055 8.2% \$ 34,705 \$ 56,682 \$ 190,878 \$ 190,878 \$ 190,878 \$ 190,878 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Table of Net Present Values for each Discount Rate

Discount Rate = 8.6%

| Discount Rate = | 8.6% |
|---|---|
| | A 24 641 |
| Demolition | \$ 34,641 |
| Caretaker Status | \$ 53 , 309 |
| Other DOD or Federal Agency | \$ 190,526 |
| Renovation/Conversion | \$ 190,526 |
| Kenovación, conversión | ¢ 190 , 320 |
| | |
| Discount Rate = | 8.8% |
| | |
| Demolition | \$ 34,609 |
| Caretaker Status | \$ 51 , 712 |
| Other DOD or Federal Agency | \$ 190 , 351 |
| Renovation/Conversion | \$ 190,351 |
| | , |
| Discust Date | |
| Discount Rate = | 9.0% |
| Demolition | \$ 34,578 |
| | |
| Caretaker Status | \$ 50,171 |
| Other DOD or Federal Agency | \$ 190 , 176 |
| Renovation/Conversion | \$ 190 , 176 |
| | |
| Discount Rate = | 0.28 |
| Discount Nate - | 9.20 |
| Demolition | \$ 34,546 |
| Caretaker Status | \$ 48,684 |
| | |
| Other DOD or Federal Agency | \$ 190,002 |
| Renovation/Conversion | \$ 190,002 |
| | |
| Discount Rate = | 9.4% |
| | |
| Demolition | \$ 34,514 |
| Caretaker Status | \$ 47,250 |
| Other DOD or Federal Agency | \$ 189,828 |
| Renovation/Conversion | \$ 189,828 |
| Kenovacion/conversion | ₽ 109 , 020 |
| | |
| Discount Rate = | 9.68 |
| Demolition | \$ 34,483 |
| | |
| Caretaker Status | \$ 45,865 |
| Other DOD or Federal Agency | \$ 189,655 |
| Renovation/Conversion | |
| | \$ 189,655 |
| | \$ 189,655 |
| Discount Rate = | |
| Discount Rate = | 9.8% |
| | |
| Discount Rate = | 9.8% |
| Discount Rate = Demolition Caretaker Status | 9.8% \$ 34,451 \$ 44,530 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.8% \$ 34,451 \$ 44,530 \$ 189,482 |
| Discount Rate = Demolition Caretaker Status | 9.8% \$ 34,451 \$ 44,530 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 9.8% \$ 34,451 \$ 44,530 \$ 189,482 \$ 189,482 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.8% \$ 34,451 \$ 44,530 \$ 189,482 \$ 189,482 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 9.8% \$ 34,451 \$ 44,530 \$ 189,482 \$ 189,482 10.0% |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 9.8% \$ 34,451 \$ 44,530 \$ 189,482 \$ 189,482 10.0% \$ 34,420 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 9.8% \$ 34,451 \$ 44,530 \$ 189,482 \$ 189,482 10.0% |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 9.8% \$ 34,451 \$ 44,530 \$ 189,482 \$ 189,482 10.0% \$ 34,420 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.8% \$ 34,451 \$ 44,530 \$ 189,482 \$ 189,482 10.0% \$ 34,420 \$ 43,240 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.8% \$ 34,451 \$ 44,530 \$ 189,482 \$ 189,482 10.0% \$ 34,420 \$ 43,240 \$ 189,310 |

Date Generated: 13 June 2018 Time Generated: 11.04.49 Version: ECONPACK 4.0.32

Building 77 Disposal Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|--|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 239 that meets the EXORD requirement to reduce excess square |
| | footage. |

Background:

Building 77 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 998*10=\$9,980. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 44224, Organizational Storage. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 998*55= \$54,890. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative This is a viable alternative.

Other DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*998 = \$54,890. Due to the small size of this building (998 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable This is a viable alternative. Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*998 = \$329/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

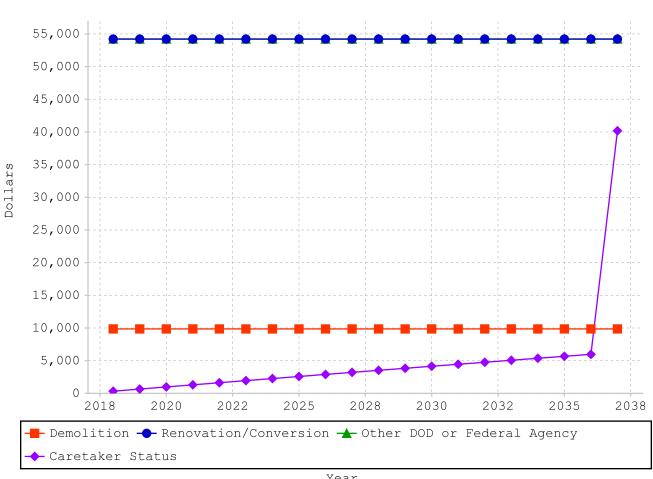
Economic Indicators:

| Alternative | NPV |
|-----------------------------|-------------------|
| Demolition | \$ 9 , 858 |
| Renovation/Conversion | \$ 54,216 |
| Other DOD or Federal Agency | \$ 54,216 |
| Caretaker Status | \$ 40,182 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 77 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | : Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

Year

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$9,980 | \$9,980 | 0.988 | \$9,858 | \$9,858 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$9,858 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$9 , 858 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$9,858 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$9,858 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$9 , 858 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$9,858 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$9 , 858 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$9,858 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$9,858 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$9,858 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$9 , 858 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$9 , 858 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$9 , 858 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$9 , 858 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$9,858 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$9,858 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$9 , 858 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$9,858 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$9,858 |
| %NPV | 100.00% | | | | |
| | \$9 , 858 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | 0 50 | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$54 , 890 | \$54 , 890 | 0.988 | \$54,216 | \$54,216 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$54,216 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$54,216 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$54,216 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$54,216 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$54,216 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$54,216 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$54,216 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$54,216 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$54,216 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$54,216 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$54,216 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$54,216 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$54,216 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$54,216 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$54,216 |
| 2034 | \$0 | \$ O | 0.665 | \$0 | \$54,216 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$54,216 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$54,216 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$54,216 |
| %NPV | 100.00% | | | | |
| | \$54 , 216 | | | | |
| Discounting Convention | М-О-Х | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Diagount Bata | • 2 5% | | | | |

Alternative: Other DOD or Federal Agency

| Year | Other DOD or Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|-------------------|------------------------------------|
| 2018 | \$54 , 890 | \$54,890 | 0.988 | \$54 , 216 | \$54,216 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$54,216 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$54,216 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$54,216 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$54,216 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$54,216 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$54,216 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$54,216 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$54,216 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$54,216 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$54,216 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$54,216 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$54,216 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$54,216 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$54,216 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$54,216 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$54,216 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$54,216 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$54,216 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$54,216 |
| %NPV | 100.00% | | | | |
| | \$54 , 216 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| | 0 50 | | | | |

Alternative: Caretaker Status

| Year | Caretaker F Status Maintenance | Renovation/Con version | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|--------------------------------------|---------------------------|----------------------------|--|------------------|
| 2018 | \$332 | \$0 | \$332 | 0.988 | \$328 |
| 2019 | \$339 | \$0 | \$339 | 0.964 | \$327 |
| 2020 | \$346 | \$0 | \$346 | 0.94 | \$325 |
| 2021 | \$353 | \$0 | \$353 | 0.917 | \$323 |
| 2022 | \$360 | \$0 | \$360 | 0.895 | \$322 |
| 2023 | \$367 | \$0 | \$367 | 0.873 | \$320 |
| 2024 | \$374 | \$0 | \$374 | 0.852 | \$319 |
| 2025 | \$382 | \$0 | \$382 | 0.831 | \$317 |
| 2026 | \$389 | \$0 | \$389 | 0.811 | \$316 |
| 2027 | \$397 | \$0 | \$397 | 0.791 | \$314 |
| 2028 | \$405 | \$0 | \$405 | 0.772 | \$313 |
| 2029 | \$413 | \$0 | \$413 | 0.753 | \$311 |
| 2030 | \$421 | \$0 | \$421 | 0.734 | \$309 |
| 2031 | \$430 | \$0 | \$430 | 0.717 | \$308 |
| 2032 | \$438 | \$0 | \$438 | 0.699 | \$306 |
| 2033 | \$447 | \$0 | \$447 | 0.682 | \$305 |
| 2034 | \$456 | \$0 | \$456 | 0.665 | \$303 |
| 2035 | \$465 | \$0 | \$465 | 0.649 | \$302 |
| 2036 | \$475 | \$0 | \$475 | 0.633 | \$301 |
| 2037 | \$484 | \$54 , 890 | \$55 , 374 | 0.618 | \$34,213 |
| %NPV | 15.60% | 84.40% | | | |
| | \$6,268 | \$33,914 | | | |
| Discounting Convention | М-О-У | М-О-У | | | |
| Inflation Schedule | 2017 General | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$328 | |
| 2019 | \$655 | |
| 2020 | \$980 | |
| 2021 | \$1,303 | |
| 2022 | \$1,625 | |
| 2023 | \$1,945 | |
| 2024 | \$2,264 | |
| 2025 | \$2,581 | |
| 2026 | \$2,897 | |
| 2027 | \$3,211 | |
| 2028 | \$3,523 | |
| 2029 | \$3,834 | |
| 2030 | \$4,144 | |
| 2031 | \$4,452 | |
| 2032 | \$4,758 | |
| 2033 | \$5 , 063 | |
| 2034 | \$5 , 367 | |
| 2035 | \$5,669 | |
| 2036 | \$5,969 | |
| 2037 | \$40,182 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*2817= \$28,170

- 2. Renovation/Conversion
 - a. Renovation/ Conversion

To be made practical, this building would require total renovation to include repairing

or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*998 = \$54,890.

3. Other DOD or Federal Agency

a. Other DOD or Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*998 = \$54,80.

Due to the small size of this building (998 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

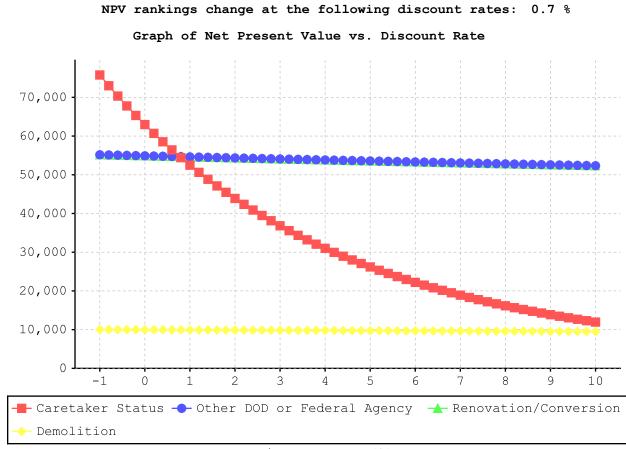
4. Caretaker Status

a. Caretaker Status Maintenance

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation/Conversion

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



Dollars

Discount Rate Sensitivity Analysis

Discount Rate (%)

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = -1 | .0% | Discount Rate = | 0.6% |
|---|---|---|---|
| Demolition | \$ 10 , 030 | Demolition | \$ 9 , 950 |
| Other DOD or Federal Agency | \$ 10,030 \$ 55,167 | Other DOD or Federal Agency | \$ 9,930 \$ 54,726 |
| Renovation/Conversion | \$ 55,167 | Renovation/Conversion | \$ 54,726 |
| Caretaker Status | \$ 75,775 | Caretaker Status | \$ 56,426 |
| | 4 10,110 | | + 00,120 |
| Discount Rate = -0 | .8% | Discount Rate = | 0.8% |
| Demolition | \$ 10,020 | Demolition | \$ 9 , 940 |
| Other DOD or Federal Agency | \$ 55,111 | Caretaker Status | \$ 54 , 415 |
| Renovation/Conversion | \$ 55 , 111 | Other DOD or Federal Agency | \$ 54 , 672 |
| Caretaker Status | \$ 73,001 | Renovation/Conversion | \$ 54,672 |
| Discount Rate = -0 | .6% | Discount Rate = | 1.0% |
| Demolition | \$ 10,010 | Demolition | \$ 9 , 930 |
| Other DOD or Federal Agency | \$ 55,055 | Caretaker Status | \$ 52,482 |
| Renovation/Conversion | \$ 55 , 055 | Other DOD or Federal Agency | \$ 54 , 618 |
| Caretaker Status | \$ 70,338 | Renovation/Conversion | \$ 54,618 |
| Discount Rate = -0 | .4% | Discount Rate = | 1.2% |
| Demolition | ¢ 10 000 | Demolition | Ċ 0 001 |
| Demolition Other DOD or Federal Agency | \$ 10,000 \$ 55,000 | Demolition Caretaker Status | \$ 9,921 \$ 50,625 |
| Renovation/Conversion | \$ 55,000 | Other DOD or Federal Agency | \$ 54,564 |
| Caretaker Status | \$ 67,780 | Renovation/Conversion | \$ 54,564 |
| calcoance coucac | 4 0,7,00 | 101101000000000000000000000000000000000 | 4 01/001 |
| | | | |
| Discount Rate = -0 | .28 | Discount Rate = | 1.4% |
| Demolition | \$ 9,990 | Discount Rate = | \$ 9,911 |
| Demolition Other DOD or Federal Agency | \$ 9,990 \$ 54,945 | Demolition Caretaker Status | \$ 9,911 \$ 48,839 |
| Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 9,990 \$ 54,945 \$ 54,945 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 9,911 \$ 48,839 \$ 54,510 |
| Demolition Other DOD or Federal Agency | \$ 9,990 \$ 54,945 | Demolition Caretaker Status | \$ 9,911 \$ 48,839 |
| Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 \$ 54,890 \$ 62,963 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 \$ 54,456 \$ 54,456 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 \$ 54,890 \$ 62,963 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 \$ 54,456 \$ 54,456 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 \$ 54,890 \$ 62,963 .2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 \$ 54,456 \$ 54,456 \$ 54,456 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 Demolition | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 \$ 62,963 .2% \$ 9,970 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 \$ 54,456 \$ 54,456 \$ 54,456 1.8% \$ 9,891 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 Demolition Other DOD or Federal Agency | \$ 9,990 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 \$ 62,963 .2% \$ 9,970 \$ 54,835 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 \$ 54,456 \$ 54,456 \$ 54,456 1.8% \$ 9,891 \$ 45,473 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 \$ 62,963 .2% \$ 9,970 \$ 54,835 \$ 54,835 \$ 54,835 \$ 54,835 \$ 54,835 \$ 60,696 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 \$ 54,456 \$ 54,456 1.8% \$ 9,891 \$ 45,473 \$ 54,403 \$ 54,403 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 \$ 62,963 .2% \$ 9,970 \$ 54,835 \$ 54,835 \$ 54,835 \$ 54,835 \$ 54,835 \$ 60,696 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 \$ 54,456 \$ 54,456 1.8% \$ 9,891 \$ 45,473 \$ 54,403 \$ 54,403 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 | \$ 9,990 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 \$ 62,963 .2% \$ 9,970 \$ 54,835 \$ 54,835 \$ 54,835 \$ 54,835 \$ 54,835 \$ 54,835 \$ 54,835 \$ 60,696 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 \$ 54,456 \$ 54,456 1.8% \$ 9,891 \$ 45,473 \$ 54,403 \$ 54,403 \$ 54,403 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 Demolition | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 \$ 62,963 .2% \$ 9,970 \$ 54,835 \$ 60,696 .4% \$ 9,960 \$ 54,781 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 \$ 54,456 \$ 54,456 1.8% \$ 9,891 \$ 45,473 \$ 54,403 \$ 54,403 \$ 54,403 \$ 54,403 \$ 54,403 \$ 54,403 \$ 54,802 2.0% |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = -0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = 0 Demolition Other DOD or Federal Agency | \$ 9,990 \$ 54,945 \$ 54,945 \$ 65,323 .0% \$ 9,980 \$ 54,890 \$ 54,890 \$ 62,963 .2% \$ 9,970 \$ 54,835 \$ 60,696 .4% \$ 9,960 \$ 54,781 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 9,911 \$ 48,839 \$ 54,510 \$ 54,510 1.6% \$ 9,901 \$ 47,123 \$ 54,456 \$ 54,456 1.8% \$ 9,891 \$ 45,473 \$ 54,403 \$ 54,403 \$ 54,403 \$ 54,403 \$ 54,403 \$ 54,403 \$ 54,403 \$ 54,887 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 2.2% | | Discount Rate = | 3.8% | |
|---|-------|---|---|------|---|
| Demolition | | \$ 9,872 | Demolition | | \$ 9,796 |
| Caretaker Status | | \$ 9,072 \$ 42,362 | Caretaker Status | | \$ 9,798 \$ 32,077 |
| Other DOD or Federal Agency | | | Other DOD or Federal Agency | | \$ 53,876 |
| Renovation/Conversion | | | Renovation/Conversion | | \$ 53,876 |
| | | | | | |
| Discount Rate = | 2.4% | | Discount Rate = | 4.0% | |
| Demolition | | \$ 9,862 | Demolition | | \$ 9 , 786 |
| Caretaker Status | | \$ 40,895 | Caretaker Status | | \$ 31,000 |
| Other DOD or Federal Agency | | \$ 54,243 | Other DOD or Federal Agency | | \$ 53,824 |
| Renovation/Conversion | | \$ 54,243 | Renovation/Conversion | | \$ 53,824 |
| Discount Rate = | 2.6% | | Discount Rate = | 4.2% | |
| Demolition | | \$ 9 , 853 | Demolition | | \$ 9 , 777 |
| Caretaker Status | | \$ 39,484 | Caretaker Status | | \$ 29,964 |
| Other DOD or Federal Agency | | \$ 54,190 | Other DOD or Federal Agency | | \$ 53,772 |
| Renovation/Conversion | | \$ 54,190 | Renovation/Conversion | | \$ 53,772 |
| Discount Rate = | 2.8% | | Discount Rate = | 4.4% | |
| | | | | | |
| Demolition | | \$ 9,843 | Demolition | | \$ 9,767 |
| Caretaker Status | | \$ 38,127 | Caretaker Status | | \$ 28,966 |
| Other DOD or Federal Agency Renovation/Conversion | | \$ 54,137 | Other DOD or Federal Agency Renovation/Conversion | | \$ 53,721 |
| Renovation/Conversion | | \$ 54 , 137 | Renovation/Conversion | | \$ 53 , 721 |
| Discount Rate = | 3.0% | | Discount Rate = | 4.6% | |
| Demolition | | + | | | \$ 9 , 758 |
| | | \$ 9,834 | Demolition | | |
| Caretaker Status | | \$ 36,822 | Demolition Caretaker Status | | \$ 28,006 |
| Caretaker Status Other DOD or Federal Agency | | \$ 36,822 \$ 54,085 | Caretaker Status Other DOD or Federal Agency | | \$ 28,006 \$ 53,669 |
| Caretaker Status | | \$ 36,822 | Caretaker Status | | \$ 28,006 |
| Caretaker Status Other DOD or Federal Agency | 3.2% | \$ 36,822 \$ 54,085 | Caretaker Status Other DOD or Federal Agency | | \$ 28,006 \$ 53,669 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 3.2 % | \$ 36,822 \$ 54,085 \$ 54,085 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion | | \$ 28,006 \$ 53,669 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 9,824 \$ 35,566 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 9,824 \$ 35,566 \$ 54,032 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 \$ 53,618 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 9,824 \$ 35,566 \$ 54,032 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 9,824 \$ 35,566 \$ 54,032 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 \$ 53,618 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 9,824 \$ 35,566 \$ 54,032 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 \$ 53,618 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 35,566 \$ 54,032 \$ 54,032 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 \$ 53,618 \$ 53,618 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 35,566 \$ 54,032 \$ 54,032 \$ 54,032 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 \$ 53,618 \$ 53,618 \$ 53,618 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 35,566 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 \$ 53,618 \$ 53,618 \$ 53,618 \$ 9,739 \$ 9,739 \$ 26,192 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 3.4% | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 35,566 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 \$ 53,618 \$ 53,618 \$ 53,618 \$ 9,739 \$ 26,192 \$ 53,567 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 3.4% | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 35,566 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 \$ 53,618 \$ 53,618 \$ 53,618 \$ 9,739 \$ 26,192 \$ 53,567 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 3.4% | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 35,566 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 53,980 \$ 53,980 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 53,669 \$ 27,082 \$ 53,618 \$ 53,618 \$ 53,618 \$ 9,739 \$ 26,192 \$ 53,567 \$ 53,567 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 3.4% | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 35,566 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 53,980 \$ 53,980 \$ 53,980 \$ 53,980 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 \$ 53,618 \$ 53,618 \$ 53,618 \$ 9,739 \$ 26,192 \$ 53,567 \$ 53,567 \$ 53,567 \$ 9,730 \$ 25,335 \$ 53,516 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 3.4% | \$ 36,822 \$ 54,085 \$ 54,085 \$ 54,085 \$ 35,566 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 54,032 \$ 53,980 \$ 53,980 \$ 53,980 \$ 53,980 \$ 53,980 \$ 53,980 \$ 53,980 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 4.8% | \$ 28,006 \$ 53,669 \$ 53,669 \$ 9,749 \$ 27,082 \$ 53,618 \$ 53,618 \$ 53,618 \$ 53,618 \$ 53,618 \$ 53,567 \$ 53,567 \$ 53,567 \$ 53,567 \$ 53,567 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 5.4% | | Discount Rate = | 7.0% | |
|-----------------------------|------|-----------------------|-----------------------------|------|-----------------------|
| Demolition | | \$ 9 , 721 | Demolition | | \$ 9,648 |
| Caretaker Status | | \$ 24,509 | Caretaker Status | | \$ 18,907 |
| Other DOD or Federal Agency | | | Other DOD or Federal Agency | | \$ 53,064 |
| Renovation/Conversion | | \$ 53,465 | Renovation/Conversion | | \$ 53,064 |
| | | , | | | ,, |
| Discount Rate = | 5.6% | | Discount Rate = | 7.2% | |
| Demolition | | \$ 9 , 712 | Demolition | | \$ 9,639 |
| Caretaker Status | | \$ 23,714 | Caretaker Status | | \$ 18,317 |
| Other DOD or Federal Agency | | \$ 53 , 415 | Other DOD or Federal Agency | | \$ 53,015 |
| Renovation/Conversion | | \$ 53,415 | Renovation/Conversion | | \$ 53,015 |
| Discount Rate = | 5.8% | | Discount Rate = | 7.4% | |
| Demolition | | \$ 9 , 703 | Demolition | | \$ 9,630 |
| Caretaker Status | | \$ 22,948 | Caretaker Status | | \$ 17,747 |
| Other DOD or Federal Agency | | \$ 53,364 | Other DOD or Federal Agency | | \$ 52,965 |
| Renovation/Conversion | | \$ 53,364 | Renovation/Conversion | | \$ 52 , 965 |
| Discount Rate = | 6.0% | | Discount Rate = | 7.6% | |
| Demolition | | \$ 9,693 | Demolition | | \$ 9,621 |
| Caretaker Status | | \$ 9,093 \$ 22,211 | Caretaker Status | | \$ 9,021 \$ 17,198 |
| Other DOD or Federal Agency | | \$ 53,314 | Other DOD or Federal Agency | | \$ 52,916 |
| Renovation/Conversion | | \$ 53,314 | Renovation/Conversion | | \$ 52,916 |
| | | , | | | ,, |
| Discount Rate = | 6.2% | | Discount Rate = | 7.8% | |
| Demolition | | \$ 9 , 684 | Demolition | | \$ 9 , 612 |
| Caretaker Status | | \$ 21,500 | Caretaker Status | | \$ 16,669 |
| Other DOD or Federal Agency | | \$ 53,264 | Other DOD or Federal Agency | | \$ 52,867 |
| Renovation/Conversion | | \$ 53,264 | Renovation/Conversion | | \$ 52,867 |
| Discount Rate = | 6.4% | | Discount Rate = | 8.0% | |
| Demolition | | \$ 9 , 675 | Demolition | | \$ 9 , 603 |
| Caretaker Status | | \$ 20,815 | Caretaker Status | | \$ 16,159 |
| Other DOD or Federal Agency | | \$ 53,214 | Other DOD or Federal Agency | | \$ 52,818 |
| Renovation/Conversion | | \$ 53,214 | Renovation/Conversion | | \$ 52,818 |
| Discount Rate = | 6.6% | | Discount Rate = | 8.2% | |
| Demolition | | \$ 9,666 | Demolition | | \$ 9,594 |
| Caretaker Status | | \$ 20,156 | Caretaker Status | | \$ 15,667 |
| Other DOD or Federal Agency | | \$ 53 , 164 | Other DOD or Federal Agency | | \$ 52 , 769 |
| Renovation/Conversion | | \$ 53 , 164 | Renovation/Conversion | | \$ 52 , 769 |
| Discount Rate = | 6.8% | | Discount Rate = | 8.4% | |
| Demolition | | \$ 9 , 657 | Demolition | | \$ 9,586 |
| Caretaker Status | | \$ 19,520 | Caretaker Status | | \$ 15,192 |
| Other DOD or Federal Agency | | \$ 53,114 | Other DOD or Federal Agency | | \$ 52 , 720 |
| Renovation/Conversion | | \$ 53,114 | Renovation/Conversion | | \$ 52,720 |
| | | | | | |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Table of Net Present Values for each Discount Rate

Discount Rate = 8.6%

| Discount Rate = 8.6% | |
|---|--|
| Demolition | \$ 9 , 577 |
| | |
| Caretaker Status | \$ 14,735 |
| Other DOD or Federal Agency | \$ 52,672 |
| Renovation/Conversion | \$ 52 , 672 |
| | |
| Discount Rate = 8.8% | |
| | |
| Demolition | \$ 9,568 |
| Caretaker Status | \$ 14,293 |
| Other DOD or Federal Agency | \$ 52 , 623 |
| Renovation/Conversion | \$ 52 , 623 |
| | |
| Discount Rate = 9.0% | |
| | |
| Demolition | \$ 9 , 559 |
| Caretaker Status | \$ 13,867 |
| Other DOD or Federal Agency | \$ 52,575 |
| Renovation/Conversion | \$ 52,575 |
| | , |
| Discount Rate = 9.2% | |
| | |
| Demolition | \$ 9,550 |
| Caretaker Status | \$ 13 , 456 |
| Other DOD or Federal Agency | \$ 52,527 |
| Renovation/Conversion | \$ 52,527 |
| | Y 52 / 527 |
| Discount Rate = 9.4% | |
| Discount Rate = 9.4% | |
| Demolition | \$ 9,542 |
| Caretaker Status | \$ 13,060 |
| | |
| Other DOD or Federal Agency | |
| Other DOD or Federal Agency | \$ 52,479 |
| Other DOD or Federal Agency Renovation/Conversion | |
| Renovation/Conversion | \$ 52,479 \$ 52,479 |
| | \$ 52,479 \$ 52,479 |
| Renovation/Conversion | \$ 52,479 \$ 52,479 |
| Renovation/Conversion Discount Rate = 9.6% Demolition | \$ 52,479 \$ 52,479 \$ 9,533 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 \$ 9,524 \$ 12,308 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 \$ 12,308 \$ 12,308 \$ 52,383 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 \$ 9,524 \$ 12,308 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 \$ 12,308 \$ 12,308 \$ 52,383 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 \$ 12,308 \$ 12,308 \$ 52,383 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 10.0% | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 \$ 52,431 \$ 52,383 \$ 52,383 \$ 52,383 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 10.0% Demolition | \$ 52,479 \$ 52,479 \$ 9,533 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 \$ 52,431 \$ 52,383 \$ 52,383 \$ 52,383 \$ 52,383 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 10.0% Demolition Caretaker Status | \$ 52,479 \$ 52,479 \$ 52,479 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 \$ 52,431 \$ 52,383 \$ 52,383 \$ 52,383 \$ 52,383 \$ 52,383 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 10.0% Demolition Caretaker Status Other DOD or Federal Agency | \$ 52,479 \$ 52,479 \$ 52,479 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 \$ 52,431 \$ 52,383 \$ 52,383 \$ 52,383 \$ 52,383 \$ 52,383 \$ 52,383 |
| Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 10.0% Demolition Caretaker Status | \$ 52,479 \$ 52,479 \$ 52,479 \$ 12,677 \$ 52,431 \$ 52,431 \$ 52,431 \$ 52,431 \$ 52,383 \$ 52,383 \$ 52,383 \$ 52,383 \$ 52,383 |

Date Generated: 12 June 2018 Time Generated: 16.39.08 Version: ECONPACK 4.0.32

Building 92 Demolition Economic Analysis

Executive Summary Report

| Project Title | :Fort Benning Facilities Reduction Program |
|--------------------|--|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 92 that meets the EXORD requirement to reduce excess square footage. |

Background:

Building 92 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Status Quo (Current Operations) - This option retains Building 92 as a Detached Fire Station Support Building (CC70311). This facility is currently unoccupied and no longer needed for this purpose because the adjoining fire station was closed when the new Dixie Rd fire station was opened in 2005. Therefore, maintaining this facility in its current category code is not a viable alternative. This alternative is nonviable.

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order NUMBER 164-15 to dispose of excess facilities. Demolition cost is estimated to be 10/sf - 853*10=8,530. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 61050, General Administration Building. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 853*55 = \$46,915. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative. This is a viable alternative.

Other DOD or Federal Agency Facilities - This alternative offers the building

to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*853 = \$46,915. Due to the small size of this building (853 sf) and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable. This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

- 1. This building cannot be used in its current state due to its condition.
- 2. Renovation and/or conversion is necessary for the building to be reutilized.

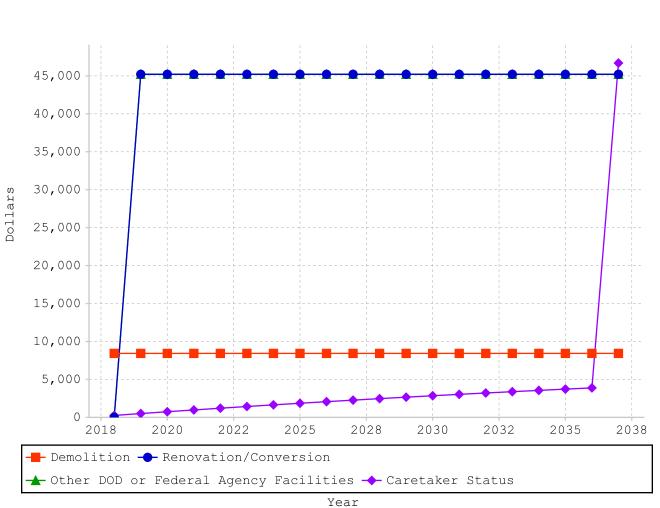
Economic Indicators:

| Alternative | NPV |
|--|-----------|
| Demolition | \$ 8,425 |
| Renovation/Conversion | \$ 45,209 |
| Other DOD or Federal Agency Facilities | \$ 45,209 |
| Caretaker Status | \$ 46,689 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative is demolition. Fort Benning does not have a practical use for this facility as is, or in a renovated condition.

Action Officer : Dean Miller Phone Number : 706-545-3229 Email Address : sherman.d.miller.civ@mail.mil Organization : Master Planning Division, DPW



Economic Analysis Graph

Net Present Value

3

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$8,530 | \$8,530 | 0.988 | \$8,425 | \$8,425 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$8,425 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$8,425 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$8,425 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$8,425 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$8,425 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$8,425 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$8,425 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$8,425 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$8,425 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$8,425 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$8,425 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$8,425 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$8,425 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$8,425 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$8,425 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$8,425 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$8,425 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$8,425 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$8,425 |
| %NPV | 100.00% | | | | |
| | \$8,425 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | | | | | |

Alternative: Renovation/Conversion

| Year | Renovation | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|--------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$0 | \$0 | 0.988 | \$0 | \$0 |
| 2019 | \$46 , 915 | \$46,915 | 0.964 | \$45,209 | \$45,209 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$45,209 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$45,209 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$45,209 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$45,209 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$45,209 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$45,209 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$45,209 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$45,209 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$45,209 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$45,209 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$45,209 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$45,209 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$45,209 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$45,209 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$45,209 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$45,209 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$45,209 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$45,209 |
| %NPV | 100.00% | | | | |
| | \$45,209 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| D' | 0 50 | | | | |

Alternative: Other DOD or Federal Agency Facilities

| Year | Renovation | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|--------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$0 | \$0 | 0.988 | \$0 | \$0 |
| 2019 | \$46,915 | \$46,915 | 0.964 | \$45,209 | \$45,209 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$45,209 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$45,209 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$45,209 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$45,209 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$45 , 209 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$45,209 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$45,209 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$45,209 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$45,209 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$45,209 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$45 , 209 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$45,209 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$45,209 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$45,209 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$45,209 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$45,209 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$45,209 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$45,209 |
| %NPV | 100.00% | | | | |
| | \$45 , 209 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| Diagount Data. | 0 E °- | | | | |

Alternative: Caretaker Status

| Year | Caretaker Status | Renovation | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|---------------------|------------------------|----------------------------|--|------------------|
| 2018 | \$256 | \$0 | \$256 | 0.988 | \$253 |
| 2019 | \$256 | \$0 | \$256 | 0.964 | \$247 |
| 2020 | \$256 | \$0 | \$256 | 0.94 | \$241 |
| 2021 | \$256 | \$0 | \$256 | 0.917 | \$235 |
| 2022 | \$256 | \$0 | \$256 | 0.895 | \$229 |
| 2023 | \$256 | \$0 | \$256 | 0.873 | \$223 |
| 2024 | \$256 | \$0 | \$256 | 0.852 | \$218 |
| 2025 | \$256 | \$0 | \$256 | 0.831 | \$213 |
| 2026 | \$256 | \$0 | \$256 | 0.811 | \$208 |
| 2027 | \$256 | \$0 | \$256 | 0.791 | \$202 |
| 2028 | \$256 | \$0 | \$256 | 0.772 | \$198 |
| 2029 | \$256 | \$0 | \$256 | 0.753 | \$193 |
| 2030 | \$256 | \$0 | \$256 | 0.734 | \$188 |
| 2031 | \$256 | \$0 | \$256 | 0.717 | \$183 |
| 2032 | \$256 | \$0 | \$256 | 0.699 | \$179 |
| 2033 | \$256 | \$0 | \$256 | 0.682 | \$175 |
| 2034 | \$256 | \$0 | \$256 | 0.665 | \$170 |
| 2035 | \$256 | \$0 | \$256 | 0.649 | \$166 |
| 2036 | \$256 | \$0 | \$256 | 0.633 | \$162 |
| 2037 | \$256 | \$69,026 | \$69 , 282 | 0.618 | \$42,806 |
| %NPV | 8.65% | 91.35% | | | |
| | \$4,040 | \$42,648 | | | |
| Discounting Convention | М-О-Ү | М-О-Х | | | |
| Inflation Schedule | No Inflation | 2017 General | | | |
| Category / Residual Schedule | Recurring Costs | Non-Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$253 | |
| 2019 | \$500 | |
| 2020 | \$740 | |
| 2021 | \$975 | |
| 2022 | \$1,204 | |
| 2023 | \$1,428 | |
| 2024 | \$1,646 | |
| 2025 | \$1,858 | |
| 2026 | \$2,066 | |
| 2027 | \$2,268 | |
| 2028 | \$2,466 | |
| 2029 | \$2,659 | |
| 2030 | \$2,847 | |
| 2031 | \$3,030 | |
| 2032 | \$3,209 | |
| 2033 | \$3,384 | |
| 2034 | \$3 , 554 | |
| 2035 | \$3,720 | |
| 2036 | \$3,882 | |
| 2037 | \$46,689 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*853 = \$8,530

- 2. Renovation/Conversion
 - a. Renovation

To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 55*853 = \$46,915

3. Other DOD or Federal Agency Facilities

a. Renovation

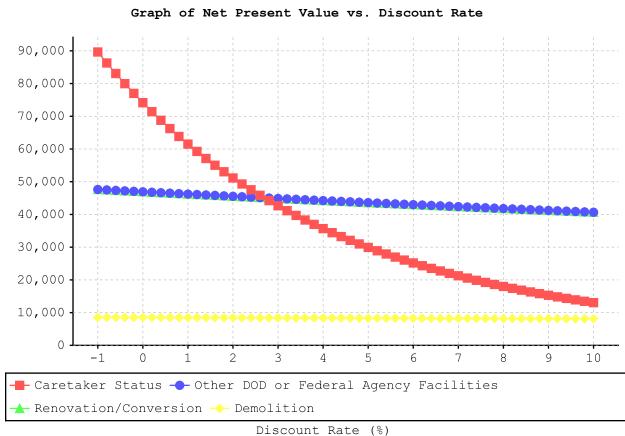
Similar to renovation for use by the Army, to be made practical for use by another government agency, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 55*853 = \$46,915.

- 4. Caretaker Status
 - a. Caretaker Status

The current cost of maintaining a facility in a caretaker status is \$0.33/sf.

b. Renovation

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 2.6 %

Dollars

NPV rankings change at the following discount rates: 2.6 $\ensuremath{\$}$

| Discount Rate = | _1 0 % | | Discount Rate = | 0 6 % | |
|--|--------|---|---|-------|--|
| | -1.0% | | | 0.0% | |
| Demolition | | \$ 8,573 | Demolition | | \$ 8,505 |
| Other DOD or Federal Agency Renovation/Conversion | | \$ 47,628 \$ 47,628 | Other DOD or Federal Agency Renovation/Conversion | | \$ 46,496 \$ 46,496 |
| Caretaker Status | | \$ 89,642 | Caretaker Status | | \$ 66,252 |
| Calculater Deacus | | φ 0 9, 012 | | | ¢ 00 , 202 |
| Discount Rate = | -0.8% | | Discount Rate = | 0.8% | |
| Demolition | | \$ 8,564 | Demolition | | \$ 8,496 |
| Other DOD or Federal Agency | | \$ 47,484 | Other DOD or Federal Agency | | \$ 46,358 |
| Renovation/Conversion | | \$ 47,484 | Renovation/Conversion | | \$ 46,358 |
| Caretaker Status | | \$ 86,285 | Caretaker Status | | \$ 63,826 |
| Discount Rate = | -0.6% | | Discount Rate = | 1.0% | |
| Demolition | | \$ 8,556 | Demolition | | \$ 8,488 |
| Other DOD or Federal Agency | | \$ 47,340 | Other DOD or Federal Agency | | \$ 46,220 |
| Renovation/Conversion | | \$ 47,340 | Renovation/Conversion | | \$ 46,220 |
| Caretaker Status | | \$ 83,062 | Caretaker Status | | \$ 61,495 |
| Discount Rate = | -0.4% | | Discount Rate = | 1.2% | |
| Demolition | | \$ 8,547 | Demolition | | \$ 8 , 479 |
| Other DOD or Federal Agency | | \$ 47 , 198 | Other DOD or Federal Agency | | \$ 46,083 |
| Renovation/Conversion | | \$ 47 , 198 | Renovation/Conversion | | \$ 46,083 |
| Caretaker Status | | \$ 79 , 968 | Caretaker Status | | \$ 59 , 256 |
| Discount Rate = | -0.2% | | Discount Rate = | 1.4% | |
| | | | | | |
| Demolition | | \$ 8,539 | Demolition | | \$ 8,471 |
| Demolition Other DOD or Federal Agency | | \$ 8,539 \$ 47,056 | Demolition Other DOD or Federal Agency | | \$ 45 , 947 |
| Other DOD or Federal Agency Renovation/Conversion | | \$ 47,056 \$ 47,056 | Other DOD or Federal Agency Renovation/Conversion | | \$ 45,947 \$ 45,947 |
| Other DOD or Federal Agency | | \$ 47,056 | Other DOD or Federal Agency | | \$ 45 , 947 |
| Other DOD or Federal Agency Renovation/Conversion | -0.0% | \$ 47,056 \$ 47,056 | Other DOD or Federal Agency Renovation/Conversion | 1.6% | \$ 45,947 \$ 45,947 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | -0.0% | \$ 47,056 \$ 47,056 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status | 1.6% | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | -0.0% | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | 1.6% | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | -0.0% | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | 1.6% | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 \$ 45,811 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | -0.0% | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | 1.6% | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 \$ 45,811 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 \$ 74,146 \$ 8,521 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 \$ 45,811 \$ 55,038 \$ 8,454 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 \$ 74,146 \$ 8,521 \$ 46,775 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 \$ 45,811 \$ 55,038 \$ 8,454 \$ 45,676 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 \$ 74,146 \$ 8,521 \$ 46,775 \$ 46,775 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 \$ 45,811 \$ 55,038 \$ 8,454 \$ 45,676 \$ 45,676 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 \$ 74,146 \$ 8,521 \$ 46,775 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 \$ 45,811 \$ 55,038 \$ 8,454 \$ 45,676 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | 0.2% | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 \$ 74,146 \$ 8,521 \$ 46,775 \$ 46,775 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | 1.8% | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 \$ 45,811 \$ 55,038 \$ 8,454 \$ 45,676 \$ 45,676 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | 0.2% | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 \$ 74,146 \$ 8,521 \$ 46,775 \$ 46,775 \$ 46,775 \$ 71,408 \$ 8,513 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | 1.8% | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 \$ 45,811 \$ 55,038 \$ 8,454 \$ 45,676 \$ 45,676 \$ 53,052 \$ 8,446 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | 0.2% | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 \$ 74,146 \$ 8,521 \$ 46,775 \$ 46,775 \$ 46,775 \$ 71,408 \$ 8,513 \$ 46,635 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | 1.8% | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 \$ 45,811 \$ 55,038 \$ 8,454 \$ 45,676 \$ 45,676 \$ 53,052 \$ 8,446 \$ 45,542 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | 0.2% | \$ 47,056 \$ 47,056 \$ 76,998 \$ 8,530 \$ 46,915 \$ 46,915 \$ 74,146 \$ 8,521 \$ 46,775 \$ 46,775 \$ 46,775 \$ 71,408 \$ 8,513 | Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | 1.8% | \$ 45,947 \$ 45,947 \$ 57,105 \$ 8,463 \$ 45,811 \$ 45,811 \$ 55,038 \$ 8,454 \$ 45,676 \$ 45,676 \$ 53,052 \$ 8,446 |

NPV rankings change at the following discount rates: 2.6 $\ensuremath{\$}$

| Discount Rate = | 2.2% | | Discount Rate = | 3.8% | |
|--|------|---|--|------|------------------------|
| Demolition | | \$ 8,438 | Demolition | | \$ 8 , 372 |
| Other DOD or Federal Agency | | \$ 45,408 | Caretaker Status | | \$ 36,964 |
| Renovation/Conversion | | \$ 45,408 | Other DOD or Federal Agency | | \$ 44,362 |
| Caretaker Status | | \$ 49,308 | Renovation/Conversion | | \$ 44,362 |
| | | , | | | , , |
| Discount Rate = | 2.4% | | Discount Rate = | 4.0% | |
| Demolition | | \$ 8,429 | Demolition | | \$ 8,364 |
| Other DOD or Federal Agency | | \$ 45 , 275 | Caretaker Status | | \$ 35 , 675 |
| Renovation/Conversion | | \$ 45,275 | Other DOD or Federal Agency | | \$ 44,235 |
| Caretaker Status | | \$ 47,544 | Renovation/Conversion | | \$ 44,235 |
| Discount Rate = | 2.6% | | Discount Rate = | 4.2% | |
| Demolition | | \$ 8,421 | Demolition | | \$ 8,356 |
| Other DOD or Federal Agency | | \$ 45,143 | Caretaker Status | | \$ 34,435 |
| Renovation/Conversion | | \$ 45,143 | Other DOD or Federal Agency | | \$ 44,107 |
| Caretaker Status | | \$ 45,849 | Renovation/Conversion | | \$ 44,107 |
| Discount Rate = | 2.8% | | Discount Rate = | 4.4% | |
| | | ÷ • • • • • • | | | * • • • • • |
| Demolition | | \$ 8,413 | Demolition | | \$ 8,348 |
| Caretaker Status | | \$ 44,220 | Caretaker Status | | \$ 33,242 |
| Other DOD or Federal Agency Renovation/Conversion | | \$ 45,011 \$ 45,011 | Other DOD or Federal Agency Renovation/Conversion | | \$ 43,981 \$ 43,981 |
| Renovation/Conversion | | γ 4 3, 011 | Renovation/Conversion | | γ 43 , 90⊥ |
| Discount Rate = | 3.0% | | Discount Rate = | 4.6% | |
| Demolition | | \$ 8,405 | Demolition | | \$ 8,340 |
| Caretaker Status | | \$ 42,653 | Caretaker Status | | \$ 32,094 |
| Other DOD or Federal Agency | | \$ 44,880 | Other DOD or Federal Agency | | \$ 43,855 |
| Renovation/Conversion | | \$ 44,880 | Renovation/Conversion | | \$ 43,855 |
| Discount Rate = | 3.2% | | Discount Rate = | 4.8% | |
| Demolition | | \$ 8 , 397 | Demolition | | \$ 8,332 |
| Caretaker Status | | \$ 41,146 | Caretaker Status | | \$ 30,990 |
| Other DOD or Federal Agency | | \$ 44,750 | Other DOD or Federal Agency | | \$ 43 , 729 |
| Renovation/Conversion | | \$ 44,750 | Renovation/Conversion | | \$ 43,729 |
| Discount Rate = | 3.4% | | Discount Rate = | 5.0% | |
| Demolition | | \$ 8,389 | Demolition | | \$ 8,324 |
| Caretaker Status | | \$ 39,697 | Caretaker Status | | \$ 29 , 927 |
| Other DOD or Federal Agency | | \$ 44,620 | Other DOD or Federal Agency | | \$ 43,604 |
| Renovation/Conversion | | \$ 44,620 | Renovation/Conversion | | \$ 43,604 |
| Discount Rate = | 3.6% | | Discount Rate = | 5.2% | |
| Demolition | | \$ 8,380 | Demolition | | \$ 8,317 |
| Caretaker Status | | \$ 38,304 | Caretaker Status | | \$ 28,904 |
| Other DOD or Federal Agency | | \$ 44,491 | Other DOD or Federal Agency | | \$ 43,480 |
| Renovation/Conversion | | \$ 44,491 | Renovation/Conversion | | \$ 43,480 |

NPV rankings change at the following discount rates: 2.6 $\ensuremath{\$}$

| Discount Rate = | 5.4% | | Discount Rate = | 7.0% | |
|---|------|---|---|------|--|
| Demolition | | \$ 8,309 | Demolition | | \$ 8,246 |
| Caretaker Status | | \$ 27,920 | Caretaker Status | | \$ 21,257 |
| Other DOD or Federal Agency | | \$ 43,356 | Other DOD or Federal Agency | | \$ 42,387 |
| Renovation/Conversion | | \$ 43,356 | Renovation/Conversion | | \$ 42,387 |
| Discount Rate = | 5.6% | | Discount Rate = | 7.2% | |
| | | ÷ 0 001 | | | ÷ 0 000 |
| Demolition | | \$ 8,301 | Demolition | | \$ 8,239 |
| Caretaker Status | | \$ 26,972 | Caretaker Status | | \$ 20,557 |
| Other DOD or Federal Agency Renovation/Conversion | | \$ 43,233 \$ 43,233 | Other DOD or Federal Agency Renovation/Conversion | | \$ 42,269 \$ 42,269 |
| Renovation/conversion | | ₽ 43 , 233 | Renovation/conversion | | ₽ 42 , 209 |
| Discount Rate = | 5.8% | | Discount Rate = | 7.4% | |
| Demolition | | \$ 8,293 | Demolition | | \$ 8,231 |
| Caretaker Status | | \$ 26,060 | Caretaker Status | | \$ 19,882 |
| Other DOD or Federal Agency | | \$ 43,111 | Other DOD or Federal Agency | | \$ 42,151 |
| Renovation/Conversion | | \$ 43,111 | Renovation/Conversion | | \$ 42,151 |
| Discount Rate = | 6.0% | | Discount Rate = | 7.6% | |
| Demolition | | \$ 8,285 | Demolition | | \$ 8,223 |
| Caretaker Status | | \$ 25,182 | Caretaker Status | | \$ 19,232 |
| Other DOD or Federal Agency | | \$ 42,989 | Other DOD or Federal Agency | | \$ 42,033 |
| Renovation/Conversion | | \$ 42,989 | Renovation/Conversion | | \$ 42,033 |
| | | | | | |
| Discount Rate = | 6.2% | | Discount Rate = | 7.8% | |
| Discount Rate = | 6.2% | \$ 8,277 | | 7.8% | \$ 8,216 |
| | 6.2% | \$ 8,277 \$ 24,337 | Discount Rate = Demolition Caretaker Status | 7.8% | \$ 8,216 \$ 18,606 |
| Demolition Caretaker Status | 6.2% | \$ 8,277 \$ 24,337 \$ 42,867 | Demolition Caretaker Status | 7.8% | \$ 8,216 \$ 18,606 \$ 41,916 |
| Demolition | 6.2% | \$ 24,337 | Demolition | 7.8% | \$ 18,606 |
| Demolition Caretaker Status Other DOD or Federal Agency | | \$ 24,337 \$ 42,867 | Demolition Caretaker Status Other DOD or Federal Agency | | \$ 18,606 \$ 41,916 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | | \$ 24,337 \$ 42,867 \$ 42,867 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | | \$ 18,606 \$ 41,916 \$ 41,916 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | | \$ 24,337 \$ 42,867 \$ 42,867 \$ 42,867 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | | \$ 18,606 \$ 41,916 \$ 41,916 \$ 8,208 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 42,867 \$ 8,269 \$ 23,523 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 8.0% | \$ 18,606 \$ 41,916 \$ 41,916 \$ 41,916 \$ 8,208 \$ 18,003 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 42,867 \$ 23,523 \$ 42,746 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 8.0% | \$ 18,606 \$ 41,916 \$ 41,916 \$ 41,916 \$ 8,208 \$ 18,003 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 42,867 \$ 23,523 \$ 42,746 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 8.0% | \$ 18,606 \$ 41,916 \$ 41,916 \$ 8,208 \$ 18,003 \$ 41,800 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 8,269 \$ 23,523 \$ 42,746 \$ 42,746 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 8.0% | \$ 18,606 \$ 41,916 \$ 41,916 \$ 8,208 \$ 18,003 \$ 41,800 \$ 41,800 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 8,269 \$ 23,523 \$ 42,746 \$ 42,746 \$ 42,746 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 8.0% | \$ 18,606 \$ 41,916 \$ 41,916 \$ 8,208 \$ 18,003 \$ 41,800 \$ 41,800 \$ 8,200 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 8,269 \$ 23,523 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 8.0% | \$ 18,606 \$ 41,916 \$ 41,916 \$ 8,208 \$ 18,003 \$ 41,800 \$ 41,800 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 42,867 \$ 23,523 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 22,739 \$ 42,626 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 8.0% | \$ 18,606 \$ 41,916 \$ 41,916 \$ 8,208 \$ 18,003 \$ 41,800 \$ 41,800 \$ 41,800 \$ 1,800 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 42,867 \$ 23,523 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 22,739 \$ 42,626 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 8.0% | \$ 18,606 \$ 41,916 \$ 41,916 \$ 8,208 \$ 18,003 \$ 41,800 \$ 41,800 \$ 17,421 \$ 41,684 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 42,867 \$ 23,523 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 8.0% | <pre>\$ 18,606 \$ 41,916 \$ 41,916 \$ 41,916 \$ 18,003 \$ 41,800 \$ 41,800 \$ 41,800 \$ 17,421 \$ 41,684 \$ 41,684</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 42,867 \$ 23,523 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,626 \$ 42,626 \$ 42,626 \$ 8,254 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 8.0% | <pre>\$ 18,606 \$ 41,916 \$ 41,916 \$ 41,916 \$ 18,003 \$ 41,800 \$ 41,800 \$ 41,800 \$ 17,421 \$ 41,684 \$ 41,684 \$ 41,684</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 42,867 \$ 23,523 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,626 \$ 42,626 \$ 42,626 \$ 42,626 \$ 42,626 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 8.0% | <pre>\$ 18,606 \$ 41,916 \$ 41,916 \$ 41,916 \$ 18,003 \$ 41,800 \$ 41,800 \$ 41,800 \$ 17,421 \$ 41,684 \$ 41,684</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 6.4% | \$ 24,337 \$ 42,867 \$ 42,867 \$ 42,867 \$ 23,523 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,746 \$ 42,626 \$ 42,626 \$ 42,626 \$ 42,626 \$ 42,626 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 8.0% | <pre>\$ 18,606 \$ 41,916 \$ 41,916 \$ 41,916 \$ 18,003 \$ 41,800 \$ 41,800 \$ 41,800 \$ 17,421 \$ 41,684 \$ 41,684 \$ 41,684 \$ 41,684</pre> |

NPV rankings change at the following discount rates: 2.6 $\ensuremath{\$}$

Table of Net Present Values for each Discount Rate

Discount Rate = 8.6%

| Demolition | ¢ 0 105 |
|---|--|
| | \$ 8,185 |
| Caretaker Status | \$ 16,321 |
| Other DOD or Federal Agency | \$ 41,454 |
| Renovation/Conversion | \$ 41,454 |
| | |
| Discount Rate = 8.8% | |
| | |
| Demolition | \$ 8 , 178 |
| Caretaker Status | \$ 15,800 |
| Other DOD or Federal Agency | \$ 41,340 |
| Renovation/Conversion | \$ 41,340 |
| Renovacion/conversion | ş 41 , 340 |
| Discount Rate = 9.0% | |
| | ÷ 0 1 = 0 |
| Demolition | \$ 8,170 |
| Caretaker Status | \$ 15 , 299 |
| Other DOD or Federal Agency | \$ 41,226 |
| Renovation/Conversion | \$ 41,226 |
| | |
| Discount Rate = 9.2% | |
| Demolition | \$ 8 , 163 |
| Caretaker Status | \$ 14,815 |
| | |
| Other DOD or Federal Agency | \$ 41,113 |
| Renovation/Conversion | \$ 41,113 |
| | |
| Discount Rate = 9.4% | |
| Demolition | Ċ 0 1 E E |
| Demolition | \$ 8 , 155 |
| | * * * * * * |
| Caretaker Status | \$ 14,348 |
| Caretaker Status Other DOD or Federal Agency | \$ 14,348 \$ 41,000 |
| | |
| Other DOD or Federal Agency | \$ 41,000 |
| Other DOD or Federal Agency | \$ 41,000 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% | \$ 41,000 \$ 41,000 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition | \$ 41,000 \$ 41,000 \$ 8,148 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 \$ 40,888 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 \$ 40,888 \$ 40,888 \$ 8,140 \$ 13,465 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 \$ 40,888 \$ 40,888 \$ 13,465 \$ 40,776 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 \$ 40,888 \$ 40,888 \$ 8,140 \$ 13,465 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 \$ 40,888 \$ 40,888 \$ 13,465 \$ 40,776 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 10.0% | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 \$ 40,888 \$ 40,888 \$ 40,888 \$ 40,776 \$ 40,776 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 10.0% Demolition | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 \$ 40,888 \$ 40,888 \$ 40,888 \$ 40,776 \$ 40,776 \$ 40,776 \$ 40,776 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 10.0% Demolition Caretaker Status | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 \$ 40,888 \$ 40,888 \$ 40,888 \$ 40,776 \$ 40,776 \$ 40,776 \$ 40,776 \$ 40,776 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 10.0% Demolition | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 \$ 40,888 \$ 40,888 \$ 40,888 \$ 40,776 \$ 40,776 \$ 40,776 \$ 40,776 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.6% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 9.8% Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 10.0% Demolition Caretaker Status | \$ 41,000 \$ 41,000 \$ 8,148 \$ 13,899 \$ 40,888 \$ 40,888 \$ 40,888 \$ 40,888 \$ 40,776 \$ 40,776 \$ 40,776 \$ 40,776 \$ 40,776 |

Date Generated: 12 June 2018 Time Generated: 12.45.55 Version: ECONPACK 4.0.32

Building 221 Disposal Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|---|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | Building 221 |
| | that meets the EXORD requirement to reduce excess square footage. |

Background:

Building 221 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 12,205*10 = \$122,050. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building would be to another vehicle maintenance or storage type category code. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 12,205*55 = \$671,275. However, there currently is an excess of space in all of these category codes and converting into them would violate the intent of the Exord. This is a viable alternative. This is a viable alternative.

Other DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*12,205 = \$671,275. Due to the relatively small size of this building (12,205 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable. This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*12,205 = \$4028/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

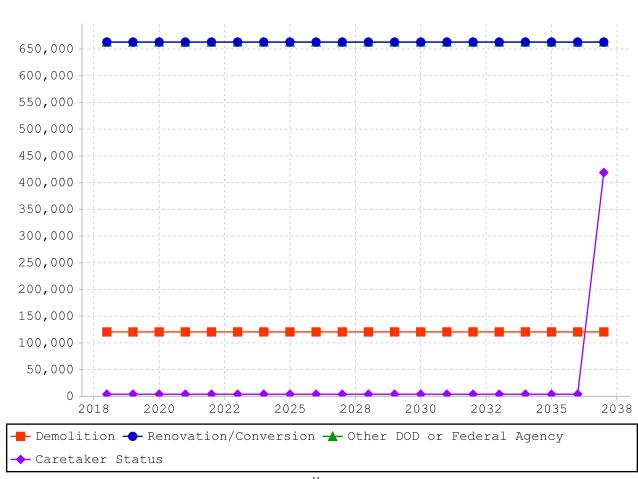
Economic Indicators:

| Alternative | NPV |
|-----------------------------|------------|
| Demolition | \$ 120,552 |
| Renovation/Conversion | \$ 663,038 |
| Other DOD or Federal Agency | \$ 663,038 |
| Caretaker Status | \$ 418,767 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 221 is the most economical alternative for the Army.

Action Officer : Dean MillerPhone Number: 706-545-3229Email Address: sherman.d.miller.civ@mail.milOrganization: Master Planning Division, DPW



Economic Analysis Graph

Net Present Value

Year

Dollars

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|--------------------|------------------------------------|
| 2018 | \$122,050 | \$122,050 | 0.988 | \$120 , 552 | \$120,552 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$120,552 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$120,552 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$120,552 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$120,552 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$120,552 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$120 , 552 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$120,552 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$120 , 552 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$120,552 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$120 , 552 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$120,552 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$120 , 552 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$120,552 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$120 , 552 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$120,552 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$120 , 552 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$120,552 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$120 , 552 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$120 , 552 |
| %NPV | 100.00% | | | | |
| | \$120 , 552 | | | | |
| Discounting Convention | М-О-Х | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | 0 50 | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$671 , 275 | \$671 , 275 | 0.988 | \$663,038 | \$663 , 038 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$663 , 038 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$663 , 038 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$663 , 038 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$663 , 038 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$663 , 038 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$663 , 038 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$663 , 038 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$663 , 038 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$663,038 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$663 , 038 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$663 , 038 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$663 , 038 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$663 , 038 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$663 , 038 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$663 , 038 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$663 , 038 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$663 , 038 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$663 , 038 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$663 , 038 |
| %NPV | 100.00% | | | | |
| | \$663 , 038 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| Diagount Data. | 0 E º. | | | | |

Alternative: Other DOD or Federal Agency

| Year | Other DOD or Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$671 , 275 | \$671,275 | 0.988 | \$663,038 | \$663,038 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$663,038 |
| 2020 | \$O | \$O | 0.94 | \$0 | \$663 , 038 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$663 , 038 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$663,038 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$663 , 038 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$663 , 038 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$663 , 038 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$663 , 038 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$663 , 038 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$663,038 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$663 , 038 |
| 2030 | \$O | \$O | 0.734 | \$0 | \$663 , 038 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$663 , 038 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$663 , 038 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$663 , 038 |
| 2034 | \$O | \$O | 0.665 | \$0 | \$663 , 038 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$663 , 038 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$663 , 038 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$663,038 |
| %NPV | 100.00% | | | | |
| | \$663 , 038 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| D'sseet Dates | 0 50 | | | | |

Alternative: Caretaker Status

| Year | Caretakeer Status Maintenance | Renovation/Con struction | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|-------------------------------------|-----------------------------|----------------------------|--|------------------|
| 2018 | \$4,068 | \$0 | \$4,068 | 0.988 | \$4,018 |
| 2019 | \$0 | \$0 | \$0 | 0.964 | \$0 |
| 2020 | \$O | \$0 | \$0 | 0.94 | \$0 |
| 2021 | \$0 | \$0 | \$0 | 0.917 | \$0 |
| 2022 | \$O | \$0 | \$0 | 0.895 | \$0 |
| 2023 | \$0 | \$0 | \$0 | 0.873 | \$0 |
| 2024 | \$0 | \$0 | \$0 | 0.852 | \$0 |
| 2025 | \$0 | \$0 | \$0 | 0.831 | \$0 |
| 2026 | \$0 | \$0 | \$0 | 0.811 | \$0 |
| 2027 | \$0 | \$0 | \$0 | 0.791 | \$0 |
| 2028 | \$0 | \$0 | \$0 | 0.772 | \$0 |
| 2029 | \$0 | \$0 | \$0 | 0.753 | \$0 |
| 2030 | \$0 | \$0 | \$0 | 0.734 | \$0 |
| 2031 | \$0 | \$0 | \$0 | 0.717 | \$0 |
| 2032 | \$0 | \$0 | \$0 | 0.699 | \$0 |
| 2033 | \$0 | \$0 | \$0 | 0.682 | \$0 |
| 2034 | \$0 | \$0 | \$0 | 0.665 | \$0 |
| 2035 | \$0 | \$0 | \$0 | 0.649 | \$0 |
| 2036 | \$0 | \$0 | \$0 | 0.633 | \$0 |
| 2037 | \$0 | \$671 , 275 | \$671 , 275 | 0.618 | \$414,749 |
| %NPV | 0.96% | 99.04% | | | |
| | \$4,018 | \$414,749 | | | |
| Discounting Convention | М-О-Х | М-О-Ү | | | |
| Inflation Schedule | 2017 General | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Non-Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$4,018 | |
| 2019 | \$4,018 | |
| 2020 | \$4,018 | |
| 2021 | \$4,018 | |
| 2022 | \$4,018 | |
| 2023 | \$4,018 | |
| 2024 | \$4,018 | |
| 2025 | \$4,018 | |
| 2026 | \$4,018 | |
| 2027 | \$4,018 | |
| 2028 | \$4,018 | |
| 2029 | \$4,018 | |
| 2030 | \$4,018 | |
| 2031 | \$4,018 | |
| 2032 | \$4,018 | |
| 2033 | \$4,018 | |
| 2034 | \$4,018 | |
| 2035 | \$4,018 | |
| 2036 | \$4,018 | |
| 2037 | \$418,767 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition
 Estimated demolition cost is \$10/sf.
 \$10*12,205 = \$122,050
- 2. Renovation/Conversion
 - a. Renovation/ Conversion

To be made practical, this building would require total renovation to include repairing

or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*12,205 = \$671,275.

- 3. Other DOD or Federal Agency
 - a. Other DOD or Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*12,205 = \$671,275.

Due to the relatively small size of this building (12,205 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

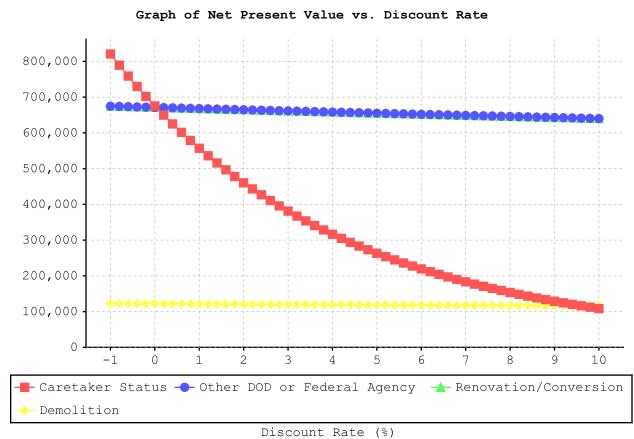
- 4. Caretaker Status
 - a. Caretakeer Status Maintenance

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation/Construction

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred

at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 9.5, 0.0 $\ensuremath{\$}$

Dollars



NPV rankings change at the following discount rates: 9.5, 0.0 %

| Discount Rate = | -1 0% | Discount Rate = | 0.6% |
|---|---|---|--|
| | | | |
| Demolition | \$ 122,665 | Demolition | \$ 121,685 |
| Other DOD or Federal Agency Renovation/Conversion | \$ 674,657 \$ 674,657 | Caretaker Status Other DOD or Federal Agency | \$ 601,421 \$ 669,270 |
| Caretaker Status | \$ 820,698 | Renovation/Conversion | \$ 669,270 \$ 669,270 |
| Caletakel Status | ₽ 020,090 | Kenovación/conversión | \$ 009,270 |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Demolition | \$ 122,541 | Demolition | \$ 121,565 |
| Other DOD or Federal Agency | \$ 673 , 976 | Caretaker Status | \$ 578 , 724 |
| Renovation/Conversion | \$ 673 , 976 | Other DOD or Federal Agency | \$ 668,606 |
| Caretaker Status | \$ 789,181 | Renovation/Conversion | \$ 668,606 |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Demolition | \$ 122,418 | Demolition | \$ 121,444 |
| Other DOD or Federal Agency | \$ 673,298 | Caretaker Status | \$ 556,931 |
| Renovation/Conversion | \$ 673,298 | Other DOD or Federal Agency | \$ 667,944 |
| Caretaker Status | \$ 758,940 | Renovation/Conversion | \$ 667,944 |
| | | | |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Demolition | \$ 122 , 295 | Demolition | \$ 121,324 |
| Other DOD or Federal Agency | | Caretaker Status | \$ 536,006 |
| Renovation/Conversion | \$ 672,622 | Other DOD or Federal Agency | \$ 667,283 |
| Caretaker Status | \$ 729 , 920 | Renovation/Conversion | \$ 667 , 283 |
| | | | |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Discount Rate = | -0.2% \$ 122,172 | Discount Rate = | 1.4% \$ 121,205 |
| | | | |
| Demolition | \$ 122,172 | Demolition | \$ 121,205 |
| Demolition Other DOD or Federal Agency | \$ 122,172 \$ 671,947 | Demolition Caretaker Status | \$ 121,205 \$ 515,911 |
| Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 1.6% |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 \$ 675,343 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 \$ 665,968 \$ 665,968 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 \$ 671,275 \$ 675,343 0.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 \$ 665,968 \$ 665,968 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 \$ 671,275 \$ 675,343 0.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 \$ 665,968 \$ 665,968 \$ 665,968 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 \$ 671,275 \$ 675,343 0.2% \$ 121,928 \$ 649,688 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 \$ 665,968 \$ 665,968 \$ 665,968 \$ 1.8% \$ 120,966 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Caretaker Status | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 \$ 671,275 \$ 675,343 0.2% \$ 121,928 \$ 649,688 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 \$ 665,968 \$ 665,968 \$ 665,968 1.8% \$ 120,966 \$ 478,076 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 \$ 671,275 \$ 675,343 0.2% \$ 121,928 \$ 649,688 \$ 670,605 \$ 670,605 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | <pre>\$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 \$ 665,968 \$ 665,968 1.8% \$ 120,966 \$ 478,076 \$ 665,314 \$ 665,314</pre> |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 \$ 671,275 \$ 675,343 0.2% \$ 121,928 \$ 649,688 \$ 670,605 \$ 670,605 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 \$ 665,968 \$ 665,968 1.8% \$ 120,966 \$ 478,076 \$ 665,314 \$ 665,314</pre> |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 \$ 671,275 \$ 675,343 0.2% \$ 121,928 \$ 649,688 \$ 649,688 \$ 670,605 \$ 670,605 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 \$ 665,968 \$ 665,968 \$ 665,968 \$ 665,968 \$ 120,966 \$ 478,076 \$ 665,314 \$ 665,314</pre> |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 \$ 671,275 \$ 671,275 \$ 675,343 0.2% \$ 121,928 \$ 649,688 \$ 670,605 \$ 670,605 \$ 670,605 \$ 670,605 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 \$ 665,968 \$ 665,968 \$ 665,968 1.8% \$ 120,966 \$ 478,076 \$ 665,314 \$ 665,314 \$ 665,314</pre> |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 122,172 \$ 671,947 \$ 671,947 \$ 702,071 -0.0% \$ 122,050 \$ 671,275 \$ 671,275 \$ 671,275 \$ 671,275 \$ 675,343 0.2% \$ 121,928 \$ 649,688 \$ 670,605 \$ 669,936 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 121,205 \$ 515,911 \$ 666,625 \$ 666,625 \$ 666,625 1.6% \$ 121,085 \$ 496,612 \$ 665,968 \$ 665,968 \$ 665,968 1.8% \$ 120,966 \$ 478,076 \$ 665,314 \$ 665,314 \$ 665,314 \$ 665,314</pre> |

NPV rankings change at the following discount rates: 9.5, 0.0 %

| Discount Rate = | 2.2% | Discount Rate = | 3.8% |
|---|--|---|--|
| Demolition | \$ 120,729 | Demolition | \$ 119,795 |
| Caretaker Status | \$ 443,169 | Caretaker Status | \$ 328,371 |
| Other DOD or Federal Agency | \$ 664,011 | Other DOD or Federal Agency | \$ 658,873 |
| Renovation/Conversion | \$ 664,011 | Renovation/Conversion | \$ 658,873 |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Demolition | \$ 120,611 | Demolition | \$ 119,680 |
| Caretaker Status | \$ 426,739 | Caretaker Status | \$ 316,417 |
| Other DOD or Federal Agency | \$ 663,362 | Other DOD or Federal Agency | \$ 658,239 |
| Renovation/Conversion | \$ 663,362 | Renovation/Conversion | \$ 658,239 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Demolition | \$ 120,494 | Demolition | \$ 119,565 |
| Caretaker Status | \$ 410,953 | Caretaker Status | \$ 304,925 |
| Other DOD or Federal Agency | \$ 662,715 | Other DOD or Federal Agency | \$ 657 , 607 |
| Renovation/Conversion | \$ 662,715 | Renovation/Conversion | \$ 657 , 607 |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Demolition | \$ 120,376 | Demolition | \$ 119,450 |
| Caretaker Status | \$ 395,786 | Caretaker Status | \$ 293 , 876 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 656 , 977 |
| Renovation/Conversion | \$ 662 , 070 | Renovation/Conversion | \$ 656 , 977 |
| | | | |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| Discount Rate = | \$ 120,259 | Discount Rate = | \$ 119 , 336 |
| Demolition Caretaker Status | \$ 120,259 \$ 381,211 | Demolition Caretaker Status | \$ 119,336 \$ 283,253 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 120,259 \$ 381,211 \$ 661,427 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 119,336 \$ 283,253 \$ 656,349 |
| Demolition Caretaker Status | \$ 120,259 \$ 381,211 | Demolition Caretaker Status | \$ 119,336 \$ 283,253 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 4.8% \$ 119,222 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 4.8% \$ 119,222 \$ 273,038 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 4.8% \$ 119,222 \$ 273,038 \$ 655,722 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 4.8% \$ 119,222 \$ 273,038 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 \$ 660,786 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 4.8% \$ 119,222 \$ 273,038 \$ 655,722 \$ 655,722 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 \$ 660,786 \$ 660,786 \$ 3.4% \$ 120,027 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 4.8% \$ 119,222 \$ 273,038 \$ 655,722 \$ 655,722 \$ 655,722 \$ 5.0% \$ 119,109 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 \$ 660,786 \$ 660,786 \$ 660,786 \$ 120,027 \$ 353,744 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 \$ 656,349 4.8% \$ 119,222 \$ 273,038 \$ 655,722 \$ 655,722 \$ 655,722 \$ 655,722 \$ 655,722 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 \$ 660,786 \$ 660,786 3.4% \$ 120,027 \$ 353,744 \$ 660,146 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | <pre>\$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 \$ 656,349 \$ 119,222 \$ 273,038 \$ 655,722 \$ 655,722 \$ 655,722 \$ 5.0% \$ 119,109 \$ 263,214 \$ 655,097</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 \$ 660,786 \$ 660,786 \$ 660,786 \$ 120,027 \$ 353,744 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 \$ 656,349 4.8% \$ 119,222 \$ 273,038 \$ 655,722 \$ 655,722 \$ 655,722 \$ 655,722 \$ 655,722 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | <pre>\$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 \$ 660,786 3.4% \$ 120,027 \$ 353,744 \$ 660,146 \$ 660,146</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | <pre>\$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 \$ 656,349 4.8% \$ 119,222 \$ 273,038 \$ 655,722 \$ 655,722 5.0% \$ 119,109 \$ 263,214 \$ 655,097 \$ 655,097</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 \$ 660,786 \$ 660,786 3.4% \$ 120,027 \$ 353,744 \$ 660,146 \$ 660,146 \$ 660,146</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 \$ 656,349 4.8% \$ 119,222 \$ 273,038 \$ 655,722 \$ 655,722 5.0% \$ 119,109 \$ 263,214 \$ 655,097 \$ 655,097</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 \$ 660,786 \$ 660,786 \$ 660,786 \$ 660,146 \$ 660,146 \$ 660,146 \$ 660,146 \$ 660,146 \$ 660,146</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 \$ 656,349 \$ 119,222 \$ 273,038 \$ 655,722 \$ 655,722 \$ 655,722 \$.0% \$ 119,109 \$ 263,214 \$ 655,097 \$ 655,097 \$ 655,097 \$ 655,097 \$ 655,097</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 120,259 \$ 381,211 \$ 661,427 \$ 661,427 3.2% \$ 120,143 \$ 367,205 \$ 660,786 \$ 660,786 \$ 660,786 3.4% \$ 120,027 \$ 353,744 \$ 660,146 \$ 660,146 \$ 660,146</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 119,336 \$ 283,253 \$ 656,349 \$ 656,349 \$ 656,349 \$ 119,222 \$ 273,038 \$ 655,722 \$ 655,722 \$ 655,722 \$ 5.0% \$ 119,109 \$ 263,214 \$ 655,097 \$ 655,097 \$ 655,097 \$ 655,097</pre> |

NPV rankings change at the following discount rates: 9.5, 0.0 %

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|---|---|---|--|
| Demolition | \$ 118,882 | Demolition | \$ 117,990 |
| Caretaker Status | \$ 244,680 | Caretaker Status | \$ 183,372 |
| Other DOD or Federal Agency | \$ 653,853 | Other DOD or Federal Agency | \$ 648,946 |
| Renovation/Conversion | \$ 653,853 | Renovation/Conversion | \$ 648,946 |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Demolition | \$ 118 , 770 | Demolition | \$ 117 , 880 |
| Caretaker Status | \$ 235,941 | Caretaker Status | \$ 176,951 |
| Other DOD or Federal Agency | \$ 653,234 | Other DOD or Federal Agency | \$ 648,340 |
| Renovation/Conversion | \$ 653,234 | Renovation/Conversion | \$ 648,340 |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Demolition | \$ 118,657 | Demolition | \$ 117 , 770 |
| Caretaker Status | \$ 227 , 533 | Caretaker Status | \$ 170,772 |
| Other DOD or Federal Agency | \$ 652,616 | Other DOD or Federal Agency | \$ 647,736 |
| Renovation/Conversion | \$ 652,616 | Renovation/Conversion | \$ 647,736 |
| Discount Rate = | 6.0% | Discount Rate = | 7.6% |
| Demolition | \$ 118,545 | Demolition | \$ 117,661 |
| Caretaker Status | \$ 219,446 | Caretaker Status | \$ 164,824 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 647,134 |
| Renovation/Conversion | \$ 652,000 | Renovation/Conversion | \$ 647,134 |
| | | | |
| Discount Rate = | 6.2% | Discount Rate = | 7.8% |
| Demolition | \$ 118,434 | Demolition | \$ 117 , 552 |
| Demolition Caretaker Status | \$ 118,434 \$ 211,665 | Demolition Caretaker Status | \$ 117,552 \$ 159,098 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 118,434 \$ 211,665 \$ 651,386 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 117,552 \$ 159,098 \$ 646,534 |
| Demolition Caretaker Status | \$ 118,434 \$ 211,665 | Demolition Caretaker Status | \$ 117,552 \$ 159,098 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 6.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 8.0% |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 6.4% \$ 118,322 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 8.0% \$ 117,443 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 6.4% \$ 118,322 \$ 204,178 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 8.0% \$ 117,443 \$ 153,585 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 6.4% \$ 118,322 \$ 204,178 \$ 650,773 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 8.0% \$ 117,443 \$ 153,585 \$ 645,935 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 6.4% \$ 118,322 \$ 204,178 \$ 650,773 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 8.0% \$ 117,443 \$ 153,585 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 6.4% \$ 118,322 \$ 204,178 \$ 650,773 \$ 650,773</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 8.0% \$ 117,443 \$ 153,585 \$ 645,935 \$ 645,935 \$ 645,935 \$ 8.2%</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | <pre>\$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 6.4% \$ 118,322 \$ 204,178 \$ 650,773 \$ 650,773 \$ 650,773</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | <pre>\$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 8.0% \$ 117,443 \$ 153,585 \$ 645,935 \$ 645,935 \$ 645,935 \$ 8.2% \$ 117,334</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | <pre>\$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 \$ 651,386 \$ 651,386 \$ 118,322 \$ 204,178 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,773</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | <pre>\$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 \$ 646,534 \$ 117,443 \$ 153,585 \$ 645,935 \$ 645,935 \$ 645,935 \$ 645,935 \$ 8.2%</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | <pre>\$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 6.4% \$ 118,322 \$ 204,178 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,773</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | <pre>\$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 \$ 646,534 \$ 117,443 \$ 153,585 \$ 645,935 \$ 645,935 \$ 645,935 \$ 8.2% \$ 117,334 \$ 148,278 \$ 645,337</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | <pre>\$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 \$ 651,386 \$ 651,386 \$ 118,322 \$ 204,178 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,773</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | <pre>\$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 \$ 646,534 \$ 117,443 \$ 153,585 \$ 645,935 \$ 645,935 \$ 645,935 \$ 645,935 \$ 8.2%</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 \$ 651,386 \$ 651,386 \$ 118,322 \$ 204,178 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,162 \$ 650,162 \$ 650,162</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 \$ 646,534 \$ 117,443 \$ 153,585 \$ 645,935 \$ 645,935 \$ 645,935 \$ 8.2% \$ 117,334 \$ 148,278 \$ 645,337 \$ 645,337 \$ 645,337</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 \$ 651,386 \$ 651,386 \$ 118,322 \$ 204,178 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,162 \$ 650,162 \$ 650,162 \$ 650,162 \$ 650,162 \$ 118,201</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 \$ 646,534 \$ 117,443 \$ 153,585 \$ 645,935 \$ 645,935 \$ 645,935 \$ 8.2% \$ 117,334 \$ 148,278 \$ 645,337 \$ 645,337 \$ 645,337 \$ 645,337</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 \$ 651,386 \$ 651,386 \$ 118,322 \$ 204,178 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,162 \$ 650,162 \$ 650,162 \$ 650,162 \$ 650,162 \$ 118,211 \$ 196,975 \$ 650,162 \$ 118,211 \$ 190,043</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 \$ 646,534 \$ 117,443 \$ 153,585 \$ 645,935 \$ 645,935 \$ 645,935 \$ 645,935 \$ 645,337 \$ 645,337 \$ 645,337 \$ 645,337 \$ 645,337</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 118,434 \$ 211,665 \$ 651,386 \$ 651,386 \$ 651,386 \$ 651,386 \$ 118,322 \$ 204,178 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,773 \$ 650,162 \$ 650,162</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 117,552 \$ 159,098 \$ 646,534 \$ 646,534 \$ 646,534 \$ 117,443 \$ 153,585 \$ 645,935 \$ 645,935 \$ 645,935 \$ 8.2% \$ 117,334 \$ 148,278 \$ 645,337 \$ 645,337 \$ 645,337 \$ 645,337</pre> |

NPV rankings change at the following discount rates: 9.5, 0.0 $\ensuremath{\$}$

Table of Net Present Values for each Discount Rate

Discount Rate = 8.6% Demolition \$ 117,118 \$ 138,248 Caretaker Status Other DOD or Federal Agency \$ 644,148 Renovation/Conversion \$ 644,148 Discount Rate = 8.8% Demolition \$ 117,010 Caretaker Status \$ 133,510 Other DOD or Federal Agency \$ 643,556 Renovation/Conversion \$ 643,556 Discount Rate = 9.0% Demolition \$ 116,903 Caretaker Status \$ 128,947 Other DOD or Federal Agency \$ 642,965 Renovation/Conversion \$ 642,965 Discount Rate = 9.2% Demolition \$ 116,796 Caretaker Status \$ 124,552 Other DOD or Federal Agency \$ 642,376 Renovation/Conversion \$ 642,376 Discount Rate = 9.4% Demolition \$ 116,689 \$ 120,319 Caretaker Status Other DOD or Federal Agency \$ 641,788 \$ 641,788 Renovation/Conversion Discount Rate = 9.6% Caretaker Status \$ 116,241 \$ 116,582 Demolition Other DOD or Federal Agency \$ 641,202 Renovation/Conversion \$ 641,202 Discount Rate = 9.8% Caretaker Status \$ 112,314 Demolition \$ 116,476 Other DOD or Federal Agency \$ 640,618 Renovation/Conversion \$ 640,618 Discount Rate = 10.0% Caretaker Status \$ 108,530 \$ 116,370 Demolition \$ 640,036 Other DOD or Federal Agency Renovation/Conversion \$ 640,036

Date Generated: 12 June 2018 Time Generated: 12.47.17 Version: ECONPACK 4.0.32

Building 222 Disposal Economic Analysis

Executive Summary Report

| Project Title | :Faciities |
|--------------------|--|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 222 that meets the EXORD requirement to reduce excess square |
| | footage. |

Background:

Building 222 has been identified as a facility for disposal per HQDA EXORD 164-15.1

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 7,625*10 = \$76,250. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 44224, Organizational Storage. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 7,625*55 = \$419,375. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative. This is a viable alternative.

Other DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*7,625 = \$419,375. Due to the location within the TMP motor pool, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable. This is a viable alternative. Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*7,625 = \$2,516/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost.

This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

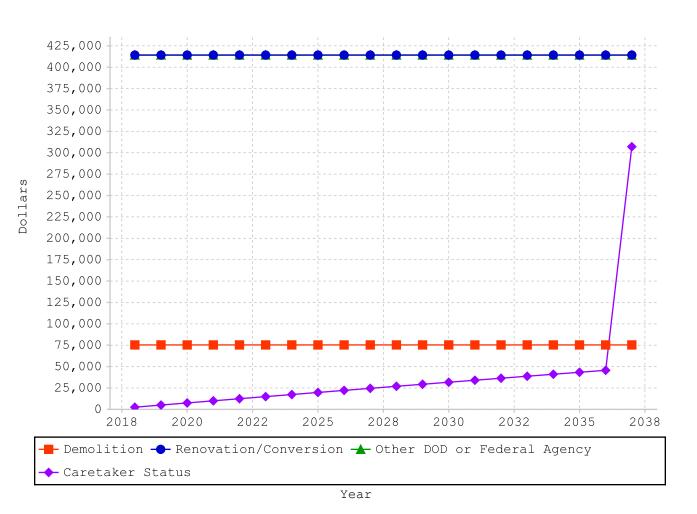
Economic Indicators:

| Alternative | NPV | | |
|-----------------------------|--------------------|--|--|
| Demolition | \$ 75 , 314 | | |
| Renovation/Conversion | \$ 414,229 | | |
| Other DOD or Federal Agency | \$ 414,229 | | |
| Caretaker Status | \$ 307,049 | | |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 222 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | :Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

3

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$76,250 | \$76 , 250 | 0.988 | \$75,314 | \$75,314 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$75 , 314 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$75 , 314 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$75,314 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$75,314 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$75,314 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$75,314 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$75,314 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$75,314 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$75,314 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$75,314 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$75,314 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$75,314 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$75,314 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$75,314 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$75,314 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$75,314 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$75,314 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$75,314 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$75,314 |
| %NPV | 100.00% | | | | |
| | \$75 , 314 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| D'arrest Data | | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$419 , 375 | \$419 , 375 | 0.988 | \$414,229 | \$414,229 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$414,229 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$414,229 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$414,229 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$414,229 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$414,229 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$414,229 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$414,229 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$414,229 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$414,229 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$414,229 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$414,229 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$414,229 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$414,229 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$414,229 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$414,229 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$414,229 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$414,229 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$414,229 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$414,229 |
| %NPV | 100.00% | | | | |
| | \$414,229 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Category / Residual | Costs | | | | |

Alternative: Other DOD or Federal Agency

| Year | Other DOD or Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$419 , 375 | \$419,375 | 0.988 | \$414,229 | \$414,229 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$414,229 |
| 2020 | \$ O | \$0 | 0.94 | \$0 | \$414,229 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$414,229 |
| 2022 | \$ O | \$O | 0.895 | \$0 | \$414,229 |
| 2023 | \$O | \$0 | 0.873 | \$0 | \$414,229 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$414,229 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$414,229 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$414,229 |
| 2027 | \$O | \$0 | 0.791 | \$0 | \$414,229 |
| 2028 | \$ O | \$0 | 0.772 | \$0 | \$414,229 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$414,229 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$414,229 |
| 2031 | \$O | \$0 | 0.717 | \$0 | \$414,229 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$414,229 |
| 2033 | \$O | \$0 | 0.682 | \$0 | \$414,229 |
| 2034 | \$ O | \$0 | 0.665 | \$0 | \$414,229 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$414,229 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$414,229 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$414,229 |
| %NPV | 100.00% | | | | |
| | \$414,229 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Discount Data | - 0 E ° | | | | |

Alternative: Caretaker Status

| Year | Caretaker Status Maintenance | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|------------------------------------|---------------------------|----------------------------|--|------------------|
| 2018 | \$2,541 | \$0 | \$2,541 | 0.988 | \$2,510 |
| 2019 | \$2,592 | \$0 | \$2,592 | 0.964 | \$2,498 |
| 2020 | \$2,644 | \$0 | \$2,644 | 0.94 | \$2,485 |
| 2021 | \$2,697 | \$0 | \$2,697 | 0.917 | \$2,473 |
| 2022 | \$2 , 750 | \$0 | \$2 , 750 | 0.895 | \$2,461 |
| 2023 | \$2,806 | \$0 | \$2,806 | 0.873 | \$2,449 |
| 2024 | \$2,862 | \$0 | \$2,862 | 0.852 | \$2,437 |
| 2025 | \$2,919 | \$0 | \$2,919 | 0.831 | \$2,425 |
| 2026 | \$2 , 977 | \$0 | \$2 , 977 | 0.811 | \$2,414 |
| 2027 | \$3,037 | \$0 | \$3,037 | 0.791 | \$2,402 |
| 2028 | \$3,098 | \$0 | \$3,098 | 0.772 | \$2,390 |
| 2029 | \$3,159 | \$0 | \$3,159 | 0.753 | \$2,378 |
| 2030 | \$3,223 | \$0 | \$3,223 | 0.734 | \$2,367 |
| 2031 | \$3,287 | \$0 | \$3,287 | 0.717 | \$2 , 355 |
| 2032 | \$3,353 | \$0 | \$3,353 | 0.699 | \$2,344 |
| 2033 | \$3,420 | \$0 | \$3,420 | 0.682 | \$2,332 |
| 2034 | \$3,488 | \$0 | \$3,488 | 0.665 | \$2,321 |
| 2035 | \$3,558 | \$0 | \$3,558 | 0.649 | \$2,310 |
| 2036 | \$3,629 | \$0 | \$3,629 | 0.633 | \$2,298 |
| 2037 | \$3,702 | \$419 , 375 | \$423,077 | 0.618 | \$261,399 |
| %NPV | 15.61% | 84.39% | | | |
| | \$47,938 | \$259 , 112 | | | |
| Discounting Convention | М-О-У | М-О-Ү | | | |
| Inflation Schedule | 2017 General | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$2,510 | |
| 2019 | \$5,007 | |
| 2020 | \$7,493 | |
| 2021 | \$9,966 | |
| 2022 | \$12,427 | |
| 2023 | \$14,877 | |
| 2024 | \$17,314 | |
| 2025 | \$19,739 | |
| 2026 | \$22,153 | |
| 2027 | \$24,555 | |
| 2028 | \$26,945 | |
| 2029 | \$29,323 | |
| 2030 | \$31,690 | |
| 2031 | \$34,045 | |
| 2032 | \$36,389 | |
| 2033 | \$38,721 | |
| 2034 | \$41,042 | |
| 2035 | \$43,352 | |
| 2036 | \$45,650 | |
| 2037 | \$307,049 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*7,625 = \$76,250

- 2. Renovation/Conversion
 - a. Renovation/ Conversion

To be made practical, this building would require total renovation to include repairing

or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*7,625 = \$419,375

3. Other DOD or Federal Agency

a. Other DOD or Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*7,625 = \$419,375.

Due to the location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

4. Caretaker Status

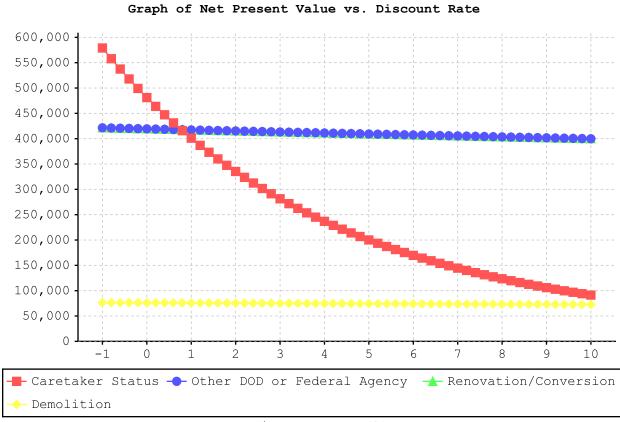
a. Caretaker Status Maintenance

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation/ Conversion

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred

at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Discount Rate (%)

Dollars

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | -1.0% | Discount Rate = | 0.6% |
|--|---|---|---|
| Demolition | \$ 76,634 | Demolition | \$ 76,022 |
| Other DOD or Federal Agency | \$ 421,488 | Other DOD or Federal Agency | \$ 418,123 |
| Renovation/Conversion | \$ 421,488 | Renovation/Conversion | \$ 418,123 |
| Caretaker Status | \$ 579,006 | Caretaker Status | \$ 431,162 |
| | | | |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Demolition | \$ 76 , 557 | Demolition | \$ 75 , 947 |
| Other DOD or Federal Agency | \$ 421,063 | Caretaker Status | \$ 415,797 |
| Renovation/Conversion | \$ 421,063 | Other DOD or Federal Agency | \$ 417,707 |
| Caretaker Status | \$ 557,814 | Renovation/Conversion | \$ 417,707 |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Demolition | \$ 76,480 | Demolition | \$ 75,872 |
| Other DOD or Federal Agency | \$ 420,639 | Caretaker Status | \$ 401,030 |
| Renovation/Conversion | \$ 420,639 | Other DOD or Federal Agency | \$ 417,294 |
| Caretaker Status | \$ 537,463 | Renovation/Conversion | \$ 417,294 |
| | | | |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Demolition | \$ 76,403 | Demolition | \$75 , 797 |
| Other DOD or Federal Agency | \$ 420,216 | Caretaker Status | \$ 386,838 |
| Renovation/Conversion | \$ 420,216 | Other DOD or Federal Agency | \$ 416,881 |
| Caretaker Status | \$ 517,918 | Renovation/Conversion | \$ 416,881 |
| | | | |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Discount Rate = | -0.2% \$ 76,326 | Discount Rate = | 1.4% \$ 75,722 |
| | | | |
| Demolition | \$ 76 , 326 | Demolition | \$ 75 , 722 |
| Demolition Other DOD or Federal Agency | \$ 76,326 \$ 419,795 | Demolition Caretaker Status | \$ 75,722 \$ 373,197 |
| Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 \$ 416,470 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,375 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,375 \$ 481,115 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 \$ 416,060 \$ 416,060 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,375 \$ 481,115 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 \$ 416,060 \$ 416,060 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,375 \$ 419,375 \$ 481,115 0.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 \$ 416,060 \$ 416,060 \$ 416,060 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,375 \$ 419,375 \$ 481,115 0.2% \$ 76,174 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 \$ 416,060 \$ 416,060 \$ 416,060 \$ 416,060 \$ 416,060 \$ 416,060 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,375 \$ 419,375 \$ 481,115 0.2% \$ 76,174 \$ 418,956 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 \$ 416,060 \$ 416,060 1.8% \$ 75,573 \$ 347,477 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,795 \$ 419,795 \$ 419,795 \$ 40,250 \$ 76,250 \$ 419,795 \$ 40,250 \$ 76,250 \$ 419,795 \$ 419,795 \$ 40,250 \$ 76,250 \$ 419,375 \$ 481,115 0.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 \$ 416,060 \$ 416,060 1.8% \$ 75,573 \$ 347,477 \$ 415,651 \$ 415,651 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,375 \$ 419,375 \$ 481,115 0.2% \$ 76,174 \$ 418,956 \$ 418,956 \$ 463,794 0.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 \$ 416,060 \$ 416,060 1.8% \$ 75,573 \$ 347,477 \$ 415,651 \$ 415,651 \$ 415,651 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,795 \$ 419,795 \$ 419,795 \$ 40,250 \$ 76,250 \$ 419,795 \$ 40,250 \$ 76,250 \$ 419,795 \$ 419,795 \$ 40,250 \$ 76,250 \$ 419,375 \$ 481,115 0.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 \$ 416,060 \$ 416,060 1.8% \$ 75,573 \$ 347,477 \$ 415,651 \$ 415,651 \$ 415,651 \$ 415,651 \$ 415,651 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 76,326 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,375 \$ 419,375 \$ 419,375 \$ 419,375 \$ 419,375 \$ 418,956 \$ 481,115 0.2% \$ 76,174 \$ 418,956 \$ 463,794 0.4% \$ 76,098 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 \$ 416,060 \$ 416,060 1.8% \$ 75,573 \$ 347,477 \$ 415,651 \$ 415,651 \$ 415,651 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 76,326 \$ 419,795 \$ 419,795 \$ 499,147 -0.0% \$ 76,250 \$ 419,375 \$ 419,375 \$ 419,375 \$ 419,375 \$ 419,375 \$ 419,375 \$ 418,956 \$ 481,115 0.2% \$ 76,174 \$ 418,956 \$ 463,794 0.4% \$ 76,098 \$ 418,539 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 75,722 \$ 373,197 \$ 416,470 \$ 416,470 1.6% \$ 75,647 \$ 360,084 \$ 416,060 \$ 416,060 1.8% \$ 75,573 \$ 347,477 \$ 415,651 \$ 415,651 \$ 415,651 \$ 415,651 \$ 415,651 \$ 415,651 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 2.2% | Discount Rate = | 3.8% |
|---|--|---|--|
| Demolition | \$ 75,425 | Demolition | \$ 74,841 |
| Caretaker Status | \$ 323,700 | Caretaker Status | \$ 245,113 |
| Other DOD or Federal Agency | \$ 414,837 | Other DOD or Federal Agency | \$ 411,627 |
| Renovation/Conversion | \$ 414,837 | Renovation/Conversion | \$ 411,627 |
| | · · · · · | | · · · · |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Demolition | \$ 75 , 351 | Demolition | \$ 74,769 |
| Caretaker Status | \$ 312,492 | Caretaker Status | \$ 236,887 |
| Other DOD or Federal Agency | \$ 414,431 | Other DOD or Federal Agency | \$ 411,231 |
| Renovation/Conversion | \$ 414,431 | Renovation/Conversion | \$ 411,231 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Demolition | \$ 75 , 278 | Demolition | \$ 74,697 |
| Caretaker Status | \$ 301,712 | Caretaker Status | \$ 228,969 |
| Other DOD or Federal Agency | \$ 414,027 | Other DOD or Federal Agency | \$ 410,836 |
| Renovation/Conversion | \$ 414,027 | Renovation/Conversion | \$ 410,836 |
| | | | |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Demolition | \$ 75,204 | Demolition | \$ 74,626 |
| Caretaker Status | \$ 291,344 | Caretaker Status | \$ 221 , 348 |
| Other DOD or Federal Agency | \$ 413,624 | Other DOD or Federal Agency | \$ 410,442 |
| Renovation/Conversion | \$ 413,624 | Renovation/Conversion | \$ 410,442 |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| Demolition | \$ 75 , 131 | Demolition | \$ 74 , 555 |
| Caretaker Status | | | \$ 214,011 |
| ourceaner beacab | \$ 281 , 370 | Caretaker Status | Ş ZI4,UII |
| Other DOD or Federal Agency | \$ 281,370 \$ 413,222 | Caretaker Status Other DOD or Federal Agency | \$ 410,050 |
| | | | |
| Other DOD or Federal Agency | \$ 413,222 \$ 413,222 | Other DOD or Federal Agency | \$ 410,050 \$ 410,050 |
| Other DOD or Federal Agency Renovation/Conversion | \$ 413,222 \$ 413,222 | Other DOD or Federal Agency Renovation/Conversion | \$ 410,050 \$ 410,050 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 413,222 \$ 413,222 3.2% | Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 410,050 \$ 410,050 4.8% |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 \$ 412,822 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 \$ 409,658 \$ 409,658 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 \$ 412,822 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 \$ 409,658 \$ 409,658 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 \$ 412,822 \$ 412,822 3.4% | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 \$ 409,658 \$ 409,658 \$ 409,658 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 \$ 412,822 3.4% \$ 74,986 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 \$ 409,658 \$ 409,658 \$ 5.0% \$ 74,412 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 \$ 412,822 3.4% \$ 74,986 \$ 262,543 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 \$ 409,658 \$ 409,658 \$ 409,658 5.0% \$ 74,412 \$ 200,147 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 \$ 412,822 3.4% \$ 74,986 \$ 262,543 \$ 412,422 \$ 412,422 \$ 412,422 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 \$ 409,658 \$ 409,658 5.0% \$ 74,412 \$ 200,147 \$ 409,268 \$ 409,268 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 \$ 412,822 3.4% \$ 74,986 \$ 262,543 \$ 412,422 \$ 412,422 \$ 412,422 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 \$ 409,658 \$ 409,658 5.0% \$ 74,412 \$ 200,147 \$ 409,268 \$ 409,268 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 \$ 412,822 3.4% \$ 74,986 \$ 262,543 \$ 412,422 \$ 412,422 \$ 412,422 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 \$ 409,658 \$ 409,658 5.0% \$ 74,412 \$ 200,147 \$ 409,268 \$ 409,268 \$ 409,268 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 \$ 412,822 3.4% \$ 74,986 \$ 262,543 \$ 412,422 \$ 412,422 \$ 412,422 \$ 412,422 \$ 412,422 \$ 412,422 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 \$ 409,658 \$ 409,658 \$ 409,658 5.0% \$ 74,412 \$ 200,147 \$ 409,268 \$ 409,268 \$ 409,268 \$ 5.2% \$ 74,342 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 413,222 \$ 413,222 3.2% \$ 75,059 \$ 271,775 \$ 412,822 \$ 412,822 3.4% \$ 74,986 \$ 262,543 \$ 412,422 \$ 412,422 \$ 412,422 \$ 412,422 \$ 412,422 \$ 412,422 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 410,050 \$ 410,050 4.8% \$ 74,483 \$ 206,948 \$ 409,658 \$ 409,658 5.0% \$ 74,412 \$ 200,147 \$ 409,268 \$ 409,268 \$ 409,268 \$ 409,268 \$ 5.2% \$ 74,342 \$ 193,598 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|---|---|---|--|
| Demolition | \$ 74 , 271 | Demolition | \$ 73 , 714 |
| Caretaker Status | \$ 187,291 | Caretaker Status | \$ 144,486 |
| Other DOD or Federal Agency | \$ 408,491 | Other DOD or Federal Agency | \$ 405,425 |
| Renovation/Conversion | \$ 408,491 | Renovation/Conversion | \$ 405,425 |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Demolition | \$ 74,201 | Demolition | \$ 73 , 645 |
| Caretaker Status | \$ 181,217 | Caretaker Status | \$ 139,973 |
| Other DOD or Federal Agency | \$ 408,104 | Other DOD or Federal Agency | \$ 405,047 |
| Renovation/Conversion | \$ 408,104 | Renovation/Conversion | \$ 405,047 |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Demolition | \$ 74,131 | Demolition | \$ 73 , 576 |
| Caretaker Status | \$ 175 , 366 | Caretaker Status | \$ 135,623 |
| Other DOD or Federal Agency | \$ 407,718 | Other DOD or Federal Agency | \$ 404,669 |
| Renovation/Conversion | \$ 407,718 | Renovation/Conversion | \$ 404,669 |
| Discount Rate = | 6.0% | Discount Rate = | 7.6% |
| Demolition | \$ 74,061 | Demolition | \$ 73 , 508 |
| Caretaker Status | \$ 169,729 | Caretaker Status | \$ 131,429 |
| Other DOD or Federal Agency | \$ 407,333 | Other DOD or Federal Agency | \$ 404,293 |
| Renovation/Conversion | \$ 407,333 | Renovation/Conversion | \$ 404,293 |
| Discount Rate = | 6.2% | Discount Rate = | 7.8% |
| Demolition | \$ 73 , 991 | Demolition | \$ 73 , 440 |
| | J /J, 991 | | |
| Caretaker Status | \$ 164,300 | Caretaker Status | \$ 127,386 |
| Other DOD or Federal Agency | \$ 164,300 \$ 406,949 | Caretaker Status Other DOD or Federal Agency | \$ 127,386 \$ 403,918 |
| | \$ 164,300 | Caretaker Status | \$ 127,386 |
| Other DOD or Federal Agency | \$ 164,300 \$ 406,949 \$ 406,949 | Caretaker Status Other DOD or Federal Agency | \$ 127,386 \$ 403,918 \$ 403,918 |
| Other DOD or Federal Agency Renovation/Conversion | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 \$ 403,544 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 \$ 406,567 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 \$ 403,544 \$ 403,544 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 \$ 406,567 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 \$ 403,544 \$ 403,544 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 \$ 406,567 \$ 406,567 6.6% \$ 73,852 \$ 154,027 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 \$ 403,544 \$ 403,544 8.2% \$ 73,304 \$ 119,727 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 \$ 406,567 \$ 406,567 6.6% \$ 73,852 \$ 154,027 \$ 406,185 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 \$ 403,544 \$ 403,544 8.2% \$ 73,304 \$ 119,727 \$ 403,171 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 \$ 406,567 \$ 406,567 6.6% \$ 73,852 \$ 154,027 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 \$ 403,544 \$ 403,544 8.2% \$ 73,304 \$ 119,727 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | <pre>\$ 164,300 \$ 406,949 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 \$ 406,567 \$ 406,567 \$ 406,567 \$ 406,185 \$ 406,185 \$ 406,185</pre> | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 \$ 403,544 \$ 403,544 8.2% \$ 73,304 \$ 119,727 \$ 403,171 \$ 403,171 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 164,300 \$ 406,949 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 \$ 406,567 \$ 406,567 \$ 406,567 \$ 406,185 \$ 406,185 \$ 406,185</pre> | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 \$ 403,544 \$ 403,544 8.2% \$ 73,304 \$ 119,727 \$ 403,171 \$ 403,171 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 \$ 406,567 \$ 406,567 \$ 406,567 \$ 406,185 \$ 154,027 \$ 406,185 \$ 406,185 \$ 406,185 \$ 406,185 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 \$ 403,544 \$ 403,544 8.2% \$ 73,304 \$ 119,727 \$ 403,171 \$ 403,171 \$ 403,171 \$ 403,171 \$ 403,171 \$ 403,171 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 164,300 \$ 406,949 \$ 406,949 6.4% \$ 73,921 \$ 159,068 \$ 406,567 \$ 406,567 \$ 406,567 \$ 406,567 \$ 406,185 \$ 154,027 \$ 406,185 \$ 406,185 \$ 406,185 \$ 406,185 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 127,386 \$ 403,918 \$ 403,918 8.0% \$ 73,372 \$ 123,487 \$ 403,544 \$ 403,544 8.2% \$ 73,304 \$ 119,727 \$ 403,171 \$ 403,171 \$ 403,171 \$ 403,171 |

ount rates: 0.7 %

es for each Discount Rate

| NPV rankings change at the following | ng d | discou |
|---|-------------------|--------------------------|
| Table of Net Prese | ent | Value |
| Discount Rate = 8.6% | | |
| Caretaker Status \$ Other DOD or Federal Agency \$ | , 112, 402, | 169 603 427 427 |
| Discount Rate = 8.8% | | |
| Caretaker Status \$ Other DOD or Federal Agency \$ | 109, 402, | 101 229 057 057 |
| Discount Rate = 9.0% | | |
| Caretaker Status \$ Other DOD or Federal Agency \$ | 105, 401, | 034 975 688 688 |
| Discount Rate = 9.2% | | |
| Caretaker Status \$ Other DOD or Federal Agency \$ | 102, 401, | 967 834 320 320 |
| Discount Rate = 9.4% | | |
| Caretaker Status \$ Other DOD or Federal Agency \$ | 99, 400, | 901 805 953 953 |
| Discount Rate = 9.6% | | |
| Caretaker Status \$ Other DOD or Federal Agency \$ | 400, | 834 881 587 587 |
| Discount Rate = 9.8% | | |
| Caretaker Status \$ Other DOD or Federal Agency \$ | 94, 400, | 768 059 222 222 |
| Discount Rate = 10.0% | | |
| Caretaker Status \$ Other DOD or Federal Agency \$ | ,91 ,399 | 702 335 858 858 |
| | | |

Date Generated: 12 June 2018 Time Generated: 12.48.09 Version: ECONPACK 4.0.32

Building 233 Disposal Economic Analysis

Executive Summary Report

| Project Title | :Fort Benning Facilities Reduction Program | | | |
|--------------------|---|--|--|--|
| Type of Analysis | :Mission Requirement - Full | | | |
| Discount Rate | :2.5% | | | |
| Period of Analysis | :20 years | | | |
| Start Year | :2018 | | | |
| Base Year | :2018 | | | |
| Dollar Analysis | :Current Dollars | | | |
| Project Objective | :To determine the most economical course of action for Building 233 that meets the EXORD requirement to reduce excess square footage. | | | |

Background:

Building 233 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 3,840*10 = \$38,400. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 44224, Organizational Storage. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 3,840*55 = \$211,200. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative. This is a viable alternative.

Other DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*3,840 = \$211,200. Due to the relatively small size of this building (3,840 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable. This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current

condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

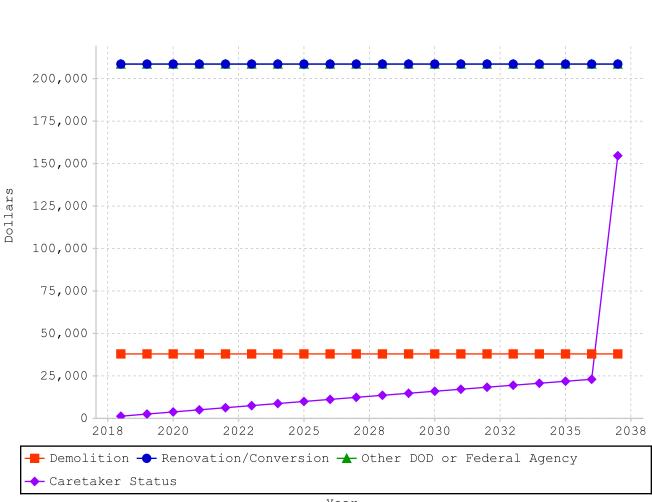
Economic Indicators:

| Alternative | NPV |
|-----------------------------|--------------------|
| Demolition | \$ 37 , 929 |
| Renovation/Conversion | \$ 208,608 |
| Other DOD or Federal Agency | \$ 208,608 |
| Caretaker Status | \$ 154,631 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 233 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | : Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

Year

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$38,400 | \$38,400 | 0.988 | \$37,929 | \$37,929 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$37 , 929 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$37,929 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$37,929 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$37,929 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$37,929 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$37 , 929 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$37,929 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$37,929 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$37,929 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$37,929 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$37 , 929 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$37 , 929 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$37,929 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$37 , 929 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$37,929 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$37,929 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$37,929 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$37 , 929 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$37,929 |
| %NPV | 100.00% | | | | |
| | \$37,929 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$211,200 | \$211,200 | 0.988 | \$208,608 | \$208,608 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$208,608 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$208,608 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$208,608 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$208,608 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$208,608 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$208,608 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$208,608 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$208,608 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$208,608 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$208,608 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$208,608 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$208,608 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$208,608 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$208,608 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$208,608 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$208,608 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$208,608 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$208,608 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$208,608 |
| %NPV | 100.00% | | | | |
| | \$208,608 | | | | |
| Discounting Convention | М-О-Х | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Residual | Costs | | | | |

Alternative: Other DOD or Federal Agency

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$211,200 | \$211,200 | 0.988 | \$208,608 | \$208,608 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$208,608 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$208 , 608 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$208,608 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$208 , 608 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$208,608 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$208,608 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$208,608 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$208,608 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$208,608 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$208 , 608 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$208,608 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$208,608 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$208,608 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$208,608 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$208,608 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$208 , 608 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$208,608 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$208,608 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$208,608 |
| %NPV | 100.00% | | | | |
| | \$208,608 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Diagount Data | • 0 E % | | | | |

Alternative: Caretaker Status

| Year | Caretaker Status | Renovation | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|---------------------|--------------------|----------------------------|--|------------------|
| 2018 | \$1,280 | \$0 | \$1 , 280 | 0.988 | \$1,264 |
| 2019 | \$1,305 | \$0 | \$1,305 | 0.964 | \$1,258 |
| 2020 | \$1 , 331 | \$0 | \$1 , 331 | 0.94 | \$1,252 |
| 2021 | \$1,358 | \$0 | \$1,358 | 0.917 | \$1,245 |
| 2022 | \$1 , 385 | \$0 | \$1 , 385 | 0.895 | \$1,239 |
| 2023 | \$1,413 | \$0 | \$1,413 | 0.873 | \$1,233 |
| 2024 | \$1,441 | \$0 | \$1,441 | 0.852 | \$1,227 |
| 2025 | \$1,470 | \$0 | \$1,470 | 0.831 | \$1,221 |
| 2026 | \$1,499 | \$0 | \$1,499 | 0.811 | \$1,215 |
| 2027 | \$1,529 | \$0 | \$1,529 | 0.791 | \$1,209 |
| 2028 | \$1,560 | \$0 | \$1,560 | 0.772 | \$1,204 |
| 2029 | \$1,591 | \$0 | \$1,591 | 0.753 | \$1,198 |
| 2030 | \$1,623 | \$0 | \$1,623 | 0.734 | \$1,192 |
| 2031 | \$1,655 | \$0 | \$1 , 655 | 0.717 | \$1,186 |
| 2032 | \$1,688 | \$0 | \$1,688 | 0.699 | \$1,180 |
| 2033 | \$1,722 | \$0 | \$1,722 | 0.682 | \$1,175 |
| 2034 | \$1,757 | \$0 | \$1 , 757 | 0.665 | \$1,169 |
| 2035 | \$1,792 | \$0 | \$1,792 | 0.649 | \$1,163 |
| 2036 | \$1,828 | \$0 | \$1,828 | 0.633 | \$1 , 157 |
| 2037 | \$1,864 | \$211,200 | \$213,064 | 0.618 | \$131,642 |
| %NPV | 15.61% | 84.39% | | | |
| | \$24,140 | \$130,490 | | | |
| Discounting Convention | М-О-У | М-О-У | | | |
| Inflation Schedule | 2017 General | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$1,264 | |
| 2019 | \$2,522 | |
| 2020 | \$3,773 | |
| 2021 | \$5,019 | |
| 2022 | \$6,258 | |
| 2023 | \$7,492 | |
| 2024 | \$8,719 | |
| 2025 | \$9,940 | |
| 2026 | \$11 , 156 | |
| 2027 | \$12,365 | |
| 2028 | \$13 , 569 | |
| 2029 | \$14,767 | |
| 2030 | \$15 , 958 | |
| 2031 | \$17,144 | |
| 2032 | \$18,325 | |
| 2033 | \$19,499 | |
| 2034 | \$20,668 | |
| 2035 | \$21,831 | |
| 2036 | \$22,989 | |
| 2037 | \$154,631 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*3840 = \$38,400

- 2. Renovation/Conversion
 - a. Renovation/ Conversion

To be made practical, this building would require total renovation to include repairing

or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*3,840 = \$211,200.

- 3. Other DOD or Federal Agency
 - a. Renovation/ Conversion

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*3,840 = \$211,200.

Due to the relatively small size of this building (3,840 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

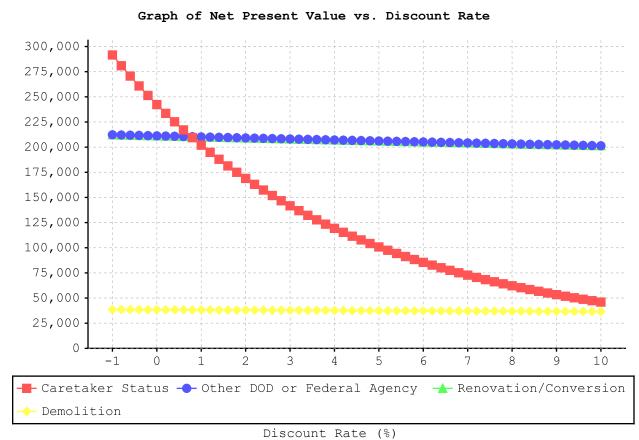
4. Caretaker Status

a. Caretaker Status

The current cost of maintaining a facility in a caretaker status is \$0.33/sf.

b. Renovation

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | -1.0% | Discount Rate = | 0.6% |
|--|---|---|---|
| Demolition | \$ 38,593 | Demolition | \$ 38,285 |
| Other DOD or Federal Agency | \$ 212,264 | Other DOD or Federal Agency | \$ 210,569 |
| Renovation/Conversion | \$ 212,264 | Renovation/Conversion | \$ 210,569 |
| Caretaker Status | \$ 291,589 | Caretaker Status | \$ 217,134 |
| | | | |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Demolition | \$ 38,555 | Demolition | \$ 38,247 |
| Other DOD or Federal Agency | \$ 212,050 | Caretaker Status | \$ 209,396 |
| Renovation/Conversion | \$ 212,050 | Other DOD or Federal Agency | \$ 210,360 |
| Caretaker Status | \$ 280,917 | Renovation/Conversion | \$ 210,360 |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Demolition | \$ 38,516 | Demolition | \$ 38,209 |
| Other DOD or Federal Agency | \$ 211,836 | Caretaker Status | \$ 201 , 960 |
| Renovation/Conversion | \$ 211,836 | Other DOD or Federal Agency | \$ 210 , 152 |
| Caretaker Status | \$ 270,668 | Renovation/Conversion | \$ 210,152 |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Demolition | \$ 38,477 | Demolition | \$ 38,172 |
| Other DOD or Federal Agency | \$ 211,624 | Caretaker Status | \$ 194,813 |
| Renovation/Conversion | \$ 211,624 | Other DOD or Federal Agency | \$ 209,944 |
| Caretaker Status | \$ 260,825 | Renovation/Conversion | \$ 209,944 |
| | | | |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Discount Rate = | -0.2% \$ 38,438 | Discount Rate = | 1.4% \$ 38,134 |
| | | | |
| Demolition | \$ 38,438 | Demolition | \$ 38,134 |
| Demolition Other DOD or Federal Agency | \$ 38,438 \$ 211,412 | Demolition Caretaker Status | \$ 38,134 \$ 187,943 |
| Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 \$ 242,291 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 \$ 209,530 \$ 209,530 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 \$ 242,291 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 \$ 209,530 \$ 209,530 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 \$ 242,291 0.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 \$ 209,530 \$ 209,530 \$ 209,530 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 \$ 242,291 0.2% \$ 38,362 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 \$ 209,530 \$ 209,530 \$ 209,530 \$ 209,530 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 \$ 242,291 0.2% \$ 38,362 \$ 210,989 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 \$ 209,530 \$ 209,530 \$ 209,530 \$ 209,530 \$ 209,530 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 \$ 211,200 \$ 242,291 0.2% \$ 38,362 \$ 38,362 \$ 210,989 \$ 210,989 \$ 233,568 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 \$ 209,530 \$ 209,530 \$ 209,530 1.8% \$ 38,059 \$ 174,990 \$ 209,324 \$ 209,324 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 \$ 211,200 \$ 242,291 0.2% \$ 38,362 \$ 38,362 \$ 210,989 \$ 210,989 \$ 233,568 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 \$ 209,530 \$ 209,530 \$ 209,530 1.8% \$ 38,059 \$ 174,990 \$ 209,324 \$ 209,324 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 \$ 242,291 0.2% \$ 38,362 \$ 210,989 \$ 210,989 \$ 210,989 \$ 233,568 0.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 \$ 209,530 \$ 209,530 \$ 209,530 1.8% \$ 38,059 \$ 174,990 \$ 209,324 \$ 209,324 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 \$ 211,200 \$ 242,291 0.2% \$ 38,362 \$ 210,989 \$ 210,989 \$ 210,989 \$ 233,568 0.4% \$ 38,323 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 \$ 209,530 \$ 209,530 \$ 209,530 1.8% \$ 38,059 \$ 174,990 \$ 209,324 \$ 209,324 \$ 209,324 \$ 209,324 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 38,438 \$ 211,412 \$ 211,412 \$ 251,372 -0.0% \$ 38,400 \$ 211,200 \$ 211,200 \$ 211,200 \$ 242,291 0.2% \$ 38,362 \$ 210,989 \$ 233,568 0.4% \$ 38,323 \$ 210,779 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 38,134 \$ 187,943 \$ 209,737 \$ 209,737 \$ 209,737 1.6% \$ 38,096 \$ 181,339 \$ 209,530 \$ 209,530 \$ 209,530 1.8% \$ 38,059 \$ 174,990 \$ 209,324 \$ 209,324 \$ 209,324 \$ 209,324 \$ 209,324 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 2.2% | Discount Rate = | 3.8% |
|---|---|---|---|
| Demolition | \$ 37,984 | Demolition | \$ 37,691 |
| Caretaker Status | \$ 163,016 | Caretaker Status | \$ 123,439 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 207,298 |
| Renovation/Conversion | \$ 208,914 | Renovation/Conversion | \$ 207,298 |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Demolition | \$ 37,947 | Demolition | \$ 37,654 |
| Caretaker Status | \$ 157 , 371 | Caretaker Status | \$ 119 , 297 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 208,710 | Renovation/Conversion | \$ 207,099 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Demolition | \$ 37,910 | Demolition | \$ 37,618 |
| Caretaker Status | \$ 151,943 | Caretaker Status | \$ 115,309 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 206,900 |
| Renovation/Conversion | \$ 208,507 | Renovation/Conversion | \$ 206,900 |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Demolition | \$ 37,873 | Demolition | \$ 37,582 |
| Caretaker Status | \$ 146,721 | Caretaker Status | \$ 111,471 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 208,304 | Renovation/Conversion | \$ 206,702 |
| | | | |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| Discount Rate = | 3.0% \$ 37,837 | Discount Rate = | 4.6% \$ 37,546 |
| Demolition Caretaker Status | \$ 37,837 \$ 141,698 | Demolition Caretaker Status | \$ 37,546 \$ 107,776 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,837 \$ 141,698 \$ 208,102 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,546 \$ 107,776 \$ 206,504 |
| Demolition Caretaker Status | \$ 37,837 \$ 141,698 | Demolition Caretaker Status | \$ 37,546 \$ 107,776 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 \$ 206,307 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 \$ 207,900 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 \$ 206,307 \$ 206,307 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 \$ 207,900 \$ 207,900 \$ 3.4% \$ 37,763 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 \$ 206,307 \$ 206,307 \$ 206,307 \$ 206,307 \$ 206,307 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 \$ 207,900 3.4% \$ 37,763 \$ 132,217 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 \$ 206,307 \$ 206,307 \$ 206,307 \$ 206,307 \$ 206,307 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 \$ 207,900 \$ 207,900 3.4% \$ 37,763 \$ 132,217 \$ 207,699 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 \$ 206,307 \$ 206,307 \$ 206,307 \$ 206,307 \$ 100,794 \$ 206,110 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 \$ 207,900 3.4% \$ 37,763 \$ 132,217 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 \$ 206,307 \$ 206,307 \$ 206,307 \$ 206,307 \$ 206,307 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 \$ 207,900 3.4% \$ 37,763 \$ 132,217 \$ 207,699 \$ 207,699 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 \$ 206,307 \$ 206,307 \$ 206,307 5.0% \$ 37,475 \$ 100,794 \$ 206,110 \$ 206,110 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 \$ 207,900 3.4% \$ 37,763 \$ 132,217 \$ 207,699 \$ 207,699 \$ 207,699 \$ 207,699 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 \$ 206,307 \$ 206,307 \$ 206,307 5.0% \$ 37,475 \$ 100,794 \$ 206,110 \$ 206,110 \$ 206,110 \$ 206,110 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 \$ 207,900 3.4% \$ 37,763 \$ 132,217 \$ 207,699 \$ 207,699 \$ 207,699 \$ 207,699 \$ 207,699 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 \$ 206,307 \$ 206,307 \$ 206,307 5.0% \$ 37,475 \$ 100,794 \$ 206,110 \$ 206,110 \$ 206,110 \$ 206,110 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 37,837 \$ 141,698 \$ 208,102 \$ 208,102 3.2% \$ 37,800 \$ 136,866 \$ 207,900 \$ 207,900 3.4% \$ 37,763 \$ 132,217 \$ 207,699 \$ 207,699 \$ 207,699 \$ 207,699 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 37,546 \$ 107,776 \$ 206,504 \$ 206,504 4.8% \$ 37,510 \$ 104,219 \$ 206,307 \$ 206,307 \$ 206,307 5.0% \$ 37,475 \$ 100,794 \$ 206,110 \$ 206,110 \$ 206,110 \$ 206,110 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|---|---|---|--|
| Demolition | \$ 37,403 | Demolition | \$ 37,123 |
| Caretaker Status | \$ 94,320 | Caretaker Status | \$ 72,763 |
| Other DOD or Federal Agency | \$ 205,719 | Other DOD or Federal Agency | \$ 204,175 |
| Renovation/Conversion | \$ 205,719 | Renovation/Conversion | \$ 204,175 |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Demolition | \$ 37,368 | Demolition | \$ 37,088 |
| Caretaker Status | \$ 91,261 | Caretaker Status | \$ 70 , 491 |
| Other DOD or Federal Agency | \$ 205,524 | Other DOD or Federal Agency | \$ 203,984 |
| Renovation/Conversion | \$ 205,524 | Renovation/Conversion | \$ 203,984 |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Demolition | \$ 37,333 | Demolition | \$ 37,053 |
| Caretaker Status | \$ 88,314 | Caretaker Status | \$ 68,300 |
| Other DOD or Federal Agency | \$ 205,329 | Other DOD or Federal Agency | \$ 203 , 794 |
| Renovation/Conversion | \$ 205,329 | Renovation/Conversion | \$ 203,794 |
| Discount Rate = | 6.0% | Discount Rate = | 7.6% |
| Demolition | \$ 37,297 | Demolition | \$ 37,019 |
| Caretaker Status | \$ 85,476 | Caretaker Status | \$ 66,188 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 203,605 |
| Renovation/Conversion | \$ 205,136 | Renovation/Conversion | \$ 203,605 |
| Discount Rate = | 6.2% | Discount Rate = | 7.8% |
| Demolition | \$ 37 , 262 | Demolition | \$ 36,985 |
| | | | |
| Caretaker Status | \$ 82,741 | Caretaker Status | \$ 64,151 |
| Other DOD or Federal Agency | \$ 82,741 \$ 204,942 | Other DOD or Federal Agency | \$ 203,416 |
| | \$ 82,741 | | |
| Other DOD or Federal Agency | \$ 82,741 \$ 204,942 \$ 204,942 6.4% | Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 203,416 \$ 203,416 |
| Other DOD or Federal Agency Renovation/Conversion | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 203,416 \$ 203,416 8.0% \$ 36,950 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 \$ 203,227 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 \$ 204,750 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 \$ 203,227 \$ 203,227 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 \$ 204,750 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 \$ 203,227 \$ 203,227 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 \$ 204,750 \$ 204,750 \$ 204,750 \$ 37,192 \$ 77,568 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 \$ 203,227 \$ 203,227 8.2% \$ 36,916 \$ 60,294 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 \$ 204,750 \$ 204,750 6.6% \$ 37,192 \$ 77,568 \$ 204,557 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 \$ 203,227 \$ 203,227 \$ 203,227 8.2% \$ 36,916 \$ 60,294 \$ 203,039 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 \$ 204,750 \$ 204,750 \$ 204,750 \$ 37,192 \$ 77,568 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 \$ 203,227 \$ 203,227 8.2% \$ 36,916 \$ 60,294 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 \$ 204,750 6.6% \$ 37,192 \$ 77,568 \$ 204,557 \$ 204,557 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 \$ 203,227 \$ 203,227 8.2% \$ 36,916 \$ 60,294 \$ 203,039 \$ 203,039 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 \$ 204,750 6.6% \$ 37,192 \$ 77,568 \$ 204,557 \$ 204,557 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 \$ 203,227 \$ 203,227 8.2% \$ 36,916 \$ 60,294 \$ 203,039 \$ 203,039 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 \$ 204,750 \$ 204,750 6.6% \$ 37,192 \$ 77,568 \$ 204,557 \$ 204,557 \$ 204,557 \$ 204,557 \$ 204,557 \$ 204,557 \$ 204,557 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 203,416 \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 \$ 203,227 \$ 203,227 8.2% \$ 36,916 \$ 60,294 \$ 203,039 \$ 203,039 \$ 203,039 \$ 203,039 \$ 203,039 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 82,741 \$ 204,942 \$ 204,942 6.4% \$ 37,227 \$ 80,107 \$ 204,750 \$ 204,750 \$ 204,750 \$ 204,557 \$ 204,557 \$ 204,557 \$ 204,557 \$ 204,557 \$ 204,557 \$ 204,557 | Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 203,416 \$ 203,416 \$ 203,416 8.0% \$ 36,950 \$ 62,188 \$ 203,227 \$ 203,227 8.2% \$ 36,916 \$ 60,294 \$ 203,039 \$ 203,039 \$ 203,039 8.4% \$ 36,882 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount | Rate = | 8.6% |
|----------|--------|------|
| DISCOUNC | IUUUU | 0.00 |

| | 8.6% |
|---|--|
| Demolition | \$ 36,848 |
| Caretaker Status | \$ 56,707 |
| | |
| Other DOD or Federal Agency | \$ 202,665 |
| Renovation/Conversion | \$ 202,665 |
| | |
| Discount Rate = | 8.8% |
| Demolition | \$ 36,814 |
| Caretaker Status | \$ 55,008 |
| Other DOD or Federal Agency | \$ 202,479 |
| Renovation/Conversion | \$ 202,479 |
| | <i>v</i> 202 / 1/3 |
| Discount Rate = | 9.0% |
| Demolition | \$ 36,781 |
| Caretaker Status | \$ 53,369 |
| | \$ 202,293 |
| Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 202,293 |
| Discount Rate = | 9.2% |
| Demolition | \$ 36,747 |
| Caretaker Status | \$ 51,787 |
| | |
| Other DOD or Federal Agency | \$ 202,108 |
| Renovation/Conversion | \$ 202,108 |
| Discount Rate = | 9.4% |
| Demolition | \$ 36,713 |
| Caretaker Status | \$ 50,261 |
| Calelakei Status | |
| Other DOD on Tedenel Jacob | |
| Other DOD or Federal Agency | \$ 201,923 |
| Other DOD or Federal Agency Renovation/Conversion | \$ 201,923 \$ 201,923 |
| | \$ 201,923 |
| Renovation/Conversion Discount Rate = | \$ 201,923 9.6% |
| Renovation/Conversion Discount Rate = Demolition | \$ 201,923 9.6% \$ 36,680 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 201,923 9.6% \$ 36,680 \$ 48,789 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 201,923 9.6% \$ 36,680 \$ 48,789 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 9.8% \$ 36,646 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 9.8% \$ 36,646 \$ 47,368 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 9.8% \$ 36,646 \$ 47,368 \$ 201,555 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 9.8% \$ 36,646 \$ 47,368 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 9.8% \$ 36,646 \$ 47,368 \$ 201,555 \$ 201,555 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 9.8% \$ 36,646 \$ 47,368 \$ 201,555 \$ 201,555 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 9.8% \$ 36,646 \$ 47,368 \$ 201,555 \$ 201,555 \$ 201,555 \$ 201,555 \$ 201,555 \$ 201,555 \$ 201,555 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 9.8% \$ 36,646 \$ 47,368 \$ 201,555 \$ 201,555 \$ 201,555 \$ 201,555 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 201,923 9.6% \$ 36,680 \$ 48,789 \$ 201,738 \$ 201,738 9.8% \$ 36,646 \$ 47,368 \$ 201,555 \$ 201,555 \$ 201,555 \$ 201,555 \$ 201,555 \$ 201,555 \$ 201,555 |

Date Generated: 12 June 2018 Time Generated: 12.48.49 Version: ECONPACK 4.0.32

Building 239 Disposal Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|---|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 239 that meets the EXORD requirement to reduce excess square footage. |

Background:

Building 239 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be 10/sf - 2,817*10 = 28,170. This is a viable alternative.

This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 44224, Organizational Storage. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 2,817*55= \$154,935. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative This is a viable alternative.

Other DOD or Federal Agency Facilities - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*2,817 = \$154,935. Due to the relatively small size of this building (2,817 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*2817 = \$929.61/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost.

This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

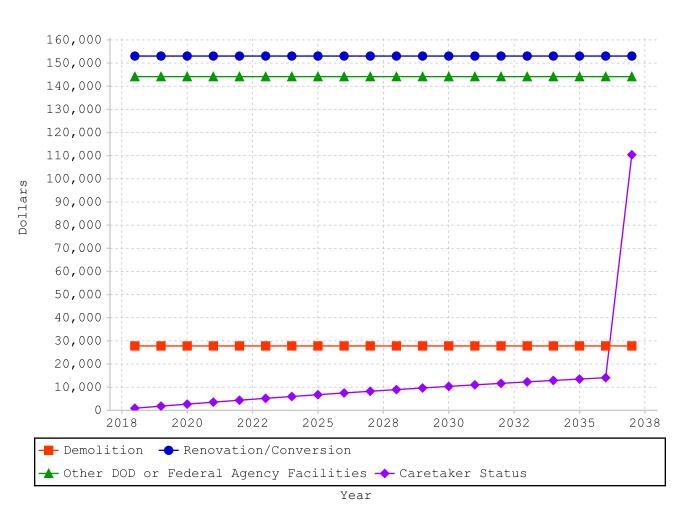
Economic Indicators:

| Alternative | NPV |
|--|------------|
| Demolition | \$ 27,824 |
| Renovation/Conversion | \$ 153,034 |
| Other DOD or Federal Agency Facilities | \$ 144,144 |
| Caretaker Status | \$ 110,405 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 239 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
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| Organization | :Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$28,170 | \$28,170 | 0.988 | \$27,824 | \$27,824 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$27,824 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$27,824 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$27,824 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$27,824 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$27,824 |
| 2024 | \$O | \$0 | 0.852 | \$0 | \$27,824 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$27,824 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$27,824 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$27,824 |
| 2028 | \$O | \$0 | 0.772 | \$0 | \$27,824 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$27,824 |
| 2030 | \$O | \$0 | 0.734 | \$0 | \$27,824 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$27,824 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$27,824 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$27,824 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$27,824 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$27,824 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$27,824 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$27,824 |
| %NPV | 100.00% | | | | |
| | \$27 , 824 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| D'annah Data | | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|--------------------|------------------------------------|
| 2018 | \$154,935 | \$154,935 | 0.988 | \$153 , 034 | \$153,034 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$153,034 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$153 , 034 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$153,034 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$153,034 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$153,034 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$153 , 034 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$153,034 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$153 , 034 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$153,034 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$153,034 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$153,034 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$153 , 034 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$153,034 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$153 , 034 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$153,034 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$153,034 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$153,034 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$153 , 034 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$153,034 |
| %NPV | 100.00% | | | | |
| | \$153,034 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Diagount Data | • 2 5% | | | | |

Alternative: Other DOD or Federal Agency Facilities

| Year | Other DOD Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$145,935 | \$145 , 935 | 0.988 | \$144,144 | \$144,144 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$144,144 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$144,144 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$144,144 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$144,144 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$144,144 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$144,144 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$144,144 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$144,144 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$144,144 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$144,144 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$144,144 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$144,144 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$144,144 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$144,144 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$144,144 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$144,144 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$144,144 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$144,144 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$144,144 |
| %NPV | 100.00% | | | | |
| | \$144,144 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Discount Rate | · 2 58 | | | | |

Alternative: Caretaker Status

| Year | Caretaker Status Maintenance | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|------------------------------------|---------------------------|----------------------------|--|------------------|
| 2018 | \$930 | \$0 | \$930 | 0.988 | \$919 |
| 2019 | \$930 | \$0 | \$930 | 0.964 | \$896 |
| 2020 | \$930 | \$0 | \$930 | 0.94 | \$874 |
| 2021 | \$930 | \$0 | \$930 | 0.917 | \$853 |
| 2022 | \$930 | \$0 | \$930 | 0.895 | \$832 |
| 2023 | \$930 | \$0 | \$930 | 0.873 | \$812 |
| 2024 | \$930 | \$0 | \$930 | 0.852 | \$792 |
| 2025 | \$930 | \$0 | \$930 | 0.831 | \$773 |
| 2026 | \$930 | \$0 | \$930 | 0.811 | \$754 |
| 2027 | \$930 | \$0 | \$930 | 0.791 | \$736 |
| 2028 | \$930 | \$0 | \$930 | 0.772 | \$718 |
| 2029 | \$930 | \$0 | \$930 | 0.753 | \$700 |
| 2030 | \$930 | \$0 | \$930 | 0.734 | \$683 |
| 2031 | \$930 | \$0 | \$930 | 0.717 | \$666 |
| 2032 | \$930 | \$0 | \$930 | 0.699 | \$650 |
| 2033 | \$930 | \$0 | \$930 | 0.682 | \$634 |
| 2034 | \$930 | \$0 | \$930 | 0.665 | \$619 |
| 2035 | \$930 | \$0 | \$930 | 0.649 | \$604 |
| 2036 | \$930 | \$0 | \$930 | 0.633 | \$589 |
| 2037 | \$930 | \$154 , 935 | \$155 , 865 | 0.618 | \$96,302 |
| %NPV | 13.29% | 86.71% | | | |
| | \$14 , 678 | \$95 , 727 | | | |
| Discounting Convention | М-О-У | М-О-Ү | | | |
| Inflation Schedule | No Inflation | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$919 | |
| 2019 | \$1,815 | |
| 2020 | \$2,689 | |
| 2021 | \$3,542 | |
| 2022 | \$4,374 | |
| 2023 | \$5,186 | |
| 2024 | \$5,978 | |
| 2025 | \$6,751 | |
| 2026 | \$7 , 505 | |
| 2027 | \$8,241 | |
| 2028 | \$8,958 | |
| 2029 | \$9,658 | |
| 2030 | \$10,341 | |
| 2031 | \$11,008 | |
| 2032 | \$11 , 658 | |
| 2033 | \$12 , 292 | |
| 2034 | \$12,911 | |
| 2035 | \$13,514 | |
| 2036 | \$14,103 | |
| 2037 | \$110,405 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*2817= \$28,170

- 2. Renovation/Conversion
 - a. Renovation/ Conversion

To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 55*2,817 = \$154,935

- 3. Other DOD or Federal Agency Facilities
 - a. Other DOD Agency

Similar to renovation for use by the Army, to be made practical for use by another government agency, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 55*2,817 = \$154,9135.

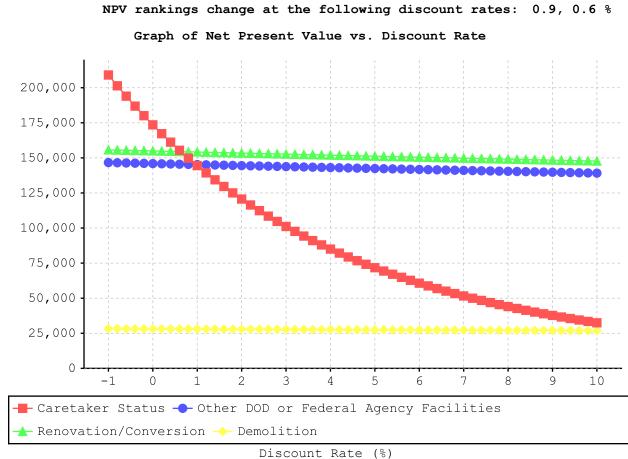
4. Caretaker Status

a. Caretaker Status Maintenance

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation/ Conversion

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



Dollars

NPV rankings change at the following discount rates: 0.9, 0.6 %

| Discount Rate = | -1.0% | Discount Rate = | 0.6% |
|---|--|---|--|
| Demolition | \$ 28,312 | Demolition | \$ 28,086 |
| Other DOD or Federal Agency | \$ 146,670 | Other DOD or Federal Agency | \$ 145,499 |
| Renovation/Conversion | \$ 155,716 | Renovation/Conversion | \$ 154,472 |
| Caretaker Status | \$ 209,080 | Caretaker Status | \$ 155,406 |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Demolition | \$ 28,283 | Demolition | \$ 28,058 |
| Other DOD or Federal Agency | \$ 146,522 | Other DOD or Federal Agency | \$ 145,355 |
| Renovation/Conversion | \$ 155,558 | Caretaker Status | \$ 149,832 |
| Caretaker Status | \$ 201,383 | Renovation/Conversion | \$ 154 , 319 |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Demolition | ¢ 20 255 | Demolition | ¢ 20 020 |
| Other DOD or Federal Agency | \$ 28,255 \$ 146,375 | Caretaker Status | \$ 28,030 \$ 144,475 |
| Renovation/Conversion | \$ 155,402 | Other DOD or Federal Agency | \$ 145,211 |
| Caretaker Status | \$ 193,992 | Renovation/Conversion | \$ 154,166 |
| | , | | |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Demolition | \$ 28,227 | Demolition | \$ 28,002 |
| Other DOD or Federal Agency | \$ 146,228 | Caretaker Status | \$ 139,328 |
| Renovation/Conversion | \$ 155,246 | Other DOD or Federal Agency | \$ 145,067 |
| Caretaker Status | \$ 186,896 | Renovation/Conversion | \$ 154,014 |
| | | | |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Demolition | \$ 28,198 | Discount Rate = | \$ 27 , 975 |
| Demolition Other DOD or Federal Agency | \$ 28,198 \$ 146,081 | Demolition Caretaker Status | \$ 27,975 \$ 134,381 |
| Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 28,198 \$ 146,081 \$ 155,090 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,975 \$ 134,381 \$ 144,924 |
| Demolition Other DOD or Federal Agency | \$ 28,198 \$ 146,081 | Demolition Caretaker Status | \$ 27,975 \$ 134,381 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 \$ 144,781 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 \$ 173,535 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 \$ 144,781 \$ 153,710 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 \$ 173,535 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 \$ 144,781 \$ 153,710 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 \$ 173,535 0.2% \$ 28,142 \$ 145,789 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 \$ 144,781 \$ 153,710 1.8% \$ 27,920 \$ 125,056 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 \$ 173,535 0.2% \$ 28,142 \$ 145,789 \$ 154,780 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 \$ 144,781 \$ 153,710 1.8% \$ 27,920 \$ 125,056 \$ 144,639 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 \$ 173,535 0.2% \$ 28,142 \$ 145,789 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 \$ 144,781 \$ 153,710 1.8% \$ 27,920 \$ 125,056 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 \$ 173,535 0.2% \$ 28,142 \$ 145,789 \$ 154,780 \$ 167,248 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 \$ 144,781 \$ 153,710 1.8% \$ 27,920 \$ 125,056 \$ 144,639 \$ 153,559 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 \$ 173,535 0.2% \$ 28,142 \$ 145,789 \$ 154,780 \$ 167,248 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 \$ 144,781 \$ 153,710 1.8% \$ 27,920 \$ 125,056 \$ 144,639 \$ 153,559 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 \$ 173,535 0.2% \$ 28,142 \$ 145,789 \$ 154,780 \$ 154,780 \$ 167,248 0.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 \$ 144,781 \$ 153,710 1.8% \$ 27,920 \$ 125,056 \$ 144,639 \$ 153,559 2.0% |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 28,198 \$ 146,081 \$ 155,090 \$ 180,081 -0.0% \$ 28,170 \$ 145,935 \$ 154,935 \$ 173,535 0.2% \$ 28,142 \$ 145,789 \$ 154,780 \$ 167,248 0.4% \$ 28,114 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,975 \$ 134,381 \$ 144,924 \$ 153,862 1.6% \$ 27,947 \$ 129,627 \$ 144,781 \$ 153,710 1.8% \$ 27,920 \$ 125,056 \$ 144,639 \$ 153,559 2.0% \$ 27,892 |

NPV rankings change at the following discount rates: 0.9, 0.6 %

| Discount Rate = | 2.2% | Discount Rate = | 3.8% |
|---|--|---|---|
| Demolition | \$ 27,865 | Demolition | \$ 27,650 |
| Caretaker Status | \$ 116,438 | Caretaker Status | \$ 87,977 |
| Other DOD or Federal Agency | \$ 144,356 | Other DOD or Federal Agency | \$ 143,239 |
| Renovation/Conversion | \$ 153,258 | Renovation/Conversion | \$ 152,073 |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Demolition | \$ 27,838 | Demolition | \$ 27,623 |
| Caretaker Status | \$ 112,377 | Caretaker Status | \$ 85,000 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 153 , 109 | Renovation/Conversion | \$ 151 , 926 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Demolition | \$ 27,811 | Demolition | \$ 27 , 596 |
| Caretaker Status | \$ 108,471 | Caretaker Status | \$ 82,135 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 152,959 | Renovation/Conversion | \$ 151,780 |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Demolition | \$ 27,784 | Demolition | \$ 27 , 570 |
| Caretaker Status | \$ 104,715 | Caretaker Status | \$ 79 , 378 |
| Other DOD or Federal Agency | \$ 143,934 | Other DOD or Federal Agency | \$ 142,827 |
| Renovation/Conversion | \$ 152,810 | Renovation/Conversion | \$ 151,635 |
| | | | |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| Discount Rate = | 3.0% \$ 27,757 | Discount Rate = | 4.6% \$ 27,544 |
| | | | \$ 27,544 \$ 76,725 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,757 \$ 101,103 \$ 143,794 | Demolition | \$ 27,544 \$ 76,725 \$ 142,690 |
| Demolition Caretaker Status | \$ 27,757 \$ 101,103 | Demolition Caretaker Status | \$ 27,544 \$ 76,725 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 \$ 142,554 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 \$ 152,514 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 \$ 142,554 \$ 151,345 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 \$ 152,514 3.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 \$ 142,554 \$ 151,345 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 \$ 152,514 3.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 \$ 142,554 \$ 151,345 5.0% |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 \$ 152,514 3.4% \$ 27,703 \$ 94,286 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 \$ 142,554 \$ 151,345 5.0% \$ 27,491 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 \$ 152,514 3.4% \$ 27,703 \$ 94,286 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 \$ 142,554 \$ 151,345 5.0% \$ 27,491 \$ 71,711 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 \$ 152,514 3.4% \$ 27,703 \$ 94,286 \$ 143,516 \$ 152,366 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 \$ 142,554 \$ 151,345 5.0% \$ 27,491 \$ 71,711 \$ 142,418 \$ 151,201 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 \$ 152,514 3.4% \$ 27,703 \$ 94,286 \$ 143,516 \$ 152,366 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 \$ 142,554 \$ 151,345 5.0% \$ 27,491 \$ 71,711 \$ 142,418 \$ 151,201 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 \$ 152,514 3.4% \$ 27,703 \$ 94,286 \$ 143,516 \$ 152,366 3.6% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 \$ 142,554 \$ 151,345 5.0% \$ 27,491 \$ 71,711 \$ 142,418 \$ 151,201 5.2% |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,757 \$ 101,103 \$ 143,794 \$ 152,662 3.2% \$ 27,730 \$ 97,628 \$ 143,655 \$ 152,514 3.4% \$ 27,703 \$ 94,286 \$ 143,516 \$ 152,366 3.6% \$ 27,676 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,544 \$ 76,725 \$ 142,690 \$ 151,490 4.8% \$ 27,517 \$ 74,170 \$ 142,554 \$ 151,345 5.0% \$ 27,491 \$ 71,711 \$ 142,418 \$ 151,201 5.2% \$ 27,465 |

NPV rankings change at the following discount rates: 0.9, 0.6 %

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|---|---|---|--|
| Demolition | \$ 27,439 | Demolition | \$ 27,233 |
| Caretaker Status | \$ 67,065 | Caretaker Status | \$ 51,607 |
| Other DOD or Federal Agency | \$ 142,147 | Other DOD or Federal Agency | \$ 141,081 |
| Renovation/Conversion | \$ 150,914 | Renovation/Conversion | \$ 149,781 |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Demolition | \$ 27,413 | Demolition | \$ 27,208 |
| Caretaker Status | \$ 64,870 | Caretaker Status | \$ 49,979 |
| Other DOD or Federal Agency | \$ 142,013 | Other DOD or Federal Agency | \$ 140,949 |
| Renovation/Conversion | \$ 150,771 | Renovation/Conversion | \$ 149,642 |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Demolition | \$ 27,387 | Demolition | \$ 27,182 |
| Caretaker Status | \$ 62,756 | Caretaker Status | \$ 48,410 |
| Other DOD or Federal Agency | \$ 141,879 | Other DOD or Federal Agency | \$ 140,818 |
| Renovation/Conversion | \$ 150,628 | Renovation/Conversion | \$ 149,502 |
| Discount Rate = | 6.0% | Discount Rate = | 7.6% |
| Demolition | \$ 27,361 | Demolition | \$ 27 , 157 |
| Caretaker Status | \$ 60 , 720 | Caretaker Status | \$ 46,897 |
| Other DOD or Federal Agency | \$ 141,745 | Other DOD or Federal Agency | \$ 140,687 |
| Renovation/Conversion | \$ 150,486 | Renovation/Conversion | \$ 149,363 |
| | | | |
| Discount Rate = | 6.2% | Discount Rate = | 7.8% |
| Discount Rate = | 6.2% \$ 27,335 | Discount Rate = | 7.8% \$ 27,132 |
| | | | |
| Demolition | \$ 27,335 \$ 58,759 \$ 141,611 | Demolition | \$ 27,132 \$ 45,440 \$ 140,556 |
| Demolition Caretaker Status | \$ 27,335 \$ 58,759 | Demolition Caretaker Status | \$ 27,132 \$ 45,440 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 \$ 140,426 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 \$ 150,203 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 \$ 140,426 \$ 149,086 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 \$ 150,203 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 \$ 140,426 \$ 149,086 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 \$ 150,203 6.6% \$ 27,284 \$ 55,050 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 \$ 140,426 \$ 149,086 8.2% \$ 27,082 \$ 42,679 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 \$ 150,203 6.6% \$ 27,284 \$ 55,050 \$ 141,345 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 \$ 140,426 \$ 149,086 8.2% \$ 27,082 \$ 42,679 \$ 140,296 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 \$ 150,203 6.6% \$ 27,284 \$ 55,050 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 \$ 140,426 \$ 149,086 8.2% \$ 27,082 \$ 42,679 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 \$ 150,203 6.6% \$ 27,284 \$ 55,050 \$ 141,345 \$ 150,062 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 \$ 140,426 \$ 149,086 8.2% \$ 27,082 \$ 42,679 \$ 140,296 \$ 148,948 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 \$ 150,203 6.6% \$ 27,284 \$ 55,050 \$ 141,345 \$ 150,062 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 \$ 140,426 \$ 149,086 8.2% \$ 27,082 \$ 42,679 \$ 140,296 \$ 148,948 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 \$ 150,203 6.6% \$ 27,284 \$ 55,050 \$ 141,345 \$ 150,062 6.8% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 \$ 140,426 \$ 149,086 8.2% \$ 27,082 \$ 42,679 \$ 140,296 \$ 148,948 8.4% \$ 27,057 \$ 41,373 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,335 \$ 58,759 \$ 141,611 \$ 150,344 6.4% \$ 27,310 \$ 56,870 \$ 141,478 \$ 150,203 6.6% \$ 27,284 \$ 55,050 \$ 141,345 \$ 150,062 6.8% \$ 27,258 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,132 \$ 45,440 \$ 140,556 \$ 149,225 8.0% \$ 27,107 \$ 44,034 \$ 140,426 \$ 149,086 8.2% \$ 27,082 \$ 42,679 \$ 140,296 \$ 148,948 8.4% \$ 27,057 |

NPV rankings change at the following discount rates: 0.9, 0.6 $\ensuremath{\$}$

| Discount | Rate = | 8.6% |
|----------|--------|------|
| DISCOULC | Nace - | 0.00 |

| Discount Rate = | 8.6% |
|---|---|
| Demolition | \$ 27,032 |
| Demolition | • |
| Caretaker Status | \$ 40,113 |
| Other DOD or Federal Agency | \$ 140,038 |
| Renovation/Conversion | \$ 148,674 |
| | |
| Discount Rate = | 8.8% |
| Demelities | ¢ 07 007 |
| Demolition | \$ 27,007 |
| Caretaker Status | \$ 38,898 |
| Other DOD or Federal Agency | \$ 139,909 |
| Renovation/Conversion | \$ 148,537 |
| Discount Rate = | 9.0% |
| Domolition | ¢ 26 002 |
| Demolition | \$ 26,982 |
| Caretaker Status | \$ 37,726 |
| Other DOD or Federal Agency | \$ 139 , 780 |
| Renovation/Conversion | \$ 148,401 |
| Discount Rate = | 9.2% |
| Demolition | \$ 26,957 |
| | |
| Caretaker Status | \$ 36,595 |
| Other DOD or Federal Agency | \$ 139,652 |
| Renovation/Conversion | \$ 148 , 265 |
| Discount Rate = | 9.4% |
| Demolition | \$ 26,933 |
| Demoticion | |
| Comptology Status | |
| Caretaker Status | \$ 35,505 |
| Other DOD or Federal Agency | \$ 139,525 |
| | |
| Other DOD or Federal Agency | \$ 139,525 \$ 148,129 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 139,525 \$ 148,129 9.6% |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 139,525 \$ 148,129 9.6% \$ 26,908 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% \$ 26,883 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% \$ 26,883 \$ 33,438 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% \$ 26,883 \$ 33,438 \$ 139,270 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% \$ 26,883 \$ 33,438 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% \$ 26,883 \$ 33,438 \$ 139,270 \$ 147,859 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% \$ 26,883 \$ 33,438 \$ 139,270 \$ 147,859 10.0% |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% \$ 26,883 \$ 33,438 \$ 139,270 \$ 147,859 10.0% \$ 26,859 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% \$ 26,883 \$ 33,438 \$ 139,270 \$ 147,859 10.0% \$ 26,859 \$ 32,458 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% \$ 26,883 \$ 33,438 \$ 139,270 \$ 147,859 10.0% \$ 26,859 \$ 32,458 \$ 139,144 |
| Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 139,525 \$ 148,129 9.6% \$ 26,908 \$ 34,453 \$ 139,397 \$ 147,994 9.8% \$ 26,883 \$ 33,438 \$ 139,270 \$ 147,859 10.0% \$ 26,859 \$ 32,458 |

Date Generated: 12 June 2018 Time Generated: 12.49.27 Version: ECONPACK 4.0.32

Building 249 Disposal Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|---|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | Building 249 |
| | that meets the EXORD requirement to reduce excess square footage. |

Background:

Building 249 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be 10/sf - 2,750*10 = 27,500. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another

Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 44224, Organizational Storage. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 2,750*55 = \$151,250. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative.

Other DOD or Federal Agency Facilities - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*2,750 = \$151,250. Due to the relatively small size and odd shape of this building (2,750 sf), location - in the Western Hemisphere Institute for Security Cooperation (WHINSEC) complex, lack of access, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable. This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*2,750 = \$907.50/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

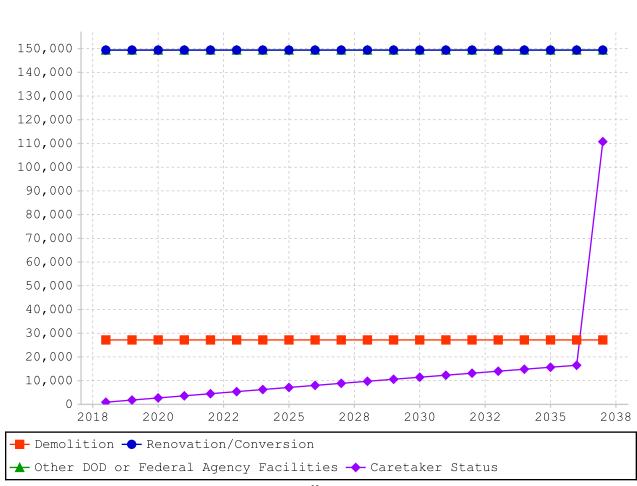
Economic Indicators:

| Alternative | NPV |
|--|---------------------|
| Demolition | \$ 27,163 |
| Renovation/Conversion | \$ 149,394 |
| Other DOD or Federal Agency Facilities | \$ 149,394 |
| Caretaker Status | \$ 110 , 750 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 249 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | :Master Planning Division, DPW |



Dollars

Economic Analysis Graph

Net Present Value

Year

3

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$27,500 | \$27 , 500 | 0.988 | \$27,163 | \$27,163 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$27,163 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$27,163 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$27,163 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$27,163 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$27,163 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$27,163 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$27,163 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$27,163 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$27,163 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$27,163 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$27,163 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$27,163 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$27,163 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$27,163 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$27,163 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$27,163 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$27,163 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$27,163 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$27,163 |
| %NPV | 100.00% | | | | |
| | \$27,163 | | | | |
| Discounting Convention | М-О-Х | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/Con version | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$151,250 | \$151 , 250 | 0.988 | \$149,394 | \$149,394 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$149,394 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$149,394 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$149,394 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$149,394 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$149,394 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$149,394 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$149,394 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$149,394 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$149,394 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$149,394 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$149,394 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$149,394 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$149,394 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$149,394 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$149,394 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$149,394 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$149,394 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$149,394 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$149,394 |
| %NPV | 100.00% | | | | |
| | \$149,394 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Diagount Date | 0 E 9 | | | | |

Alternative: Other DOD or Federal Agency Facilities

| Year | Renovation for DOD or Other Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|--|----------------------------|--|------------------|------------------------------------|
| 2018 | \$151,250 | \$151,250 | 0.988 | \$149,394 | \$149,394 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$149,394 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$149,394 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$149,394 |
| 2022 | \$O | \$0 | 0.895 | \$0 | \$149,394 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$149,394 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$149,394 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$149,394 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$149,394 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$149,394 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$149,394 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$149,394 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$149,394 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$149,394 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$149,394 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$149,394 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$149,394 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$149,394 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$149,394 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$149,394 |
| %NPV | 100.00% | | | | |
| | \$149 , 394 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Discount Rate | · 2 5% | | | | |

Alternative: Caretaker Status

| Year | Caretaker Maintenance | Renovation/ Construction | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|--------------------------|-----------------------------|----------------------------|--|------------------|
| 2018 | \$917 | \$0 | \$917 | 0.988 | \$906 |
| 2019 | \$935 | \$0 | \$935 | 0.964 | \$901 |
| 2020 | \$954 | \$0 | \$954 | 0.94 | \$897 |
| 2021 | \$973 | \$0 | \$973 | 0.917 | \$893 |
| 2022 | \$993 | \$0 | \$993 | 0.895 | \$888 |
| 2023 | \$1,012 | \$0 | \$1,012 | 0.873 | \$884 |
| 2024 | \$1,033 | \$0 | \$1,033 | 0.852 | \$880 |
| 2025 | \$1,053 | \$0 | \$1,053 | 0.831 | \$875 |
| 2026 | \$1,074 | \$0 | \$1,074 | 0.811 | \$871 |
| 2027 | \$1,096 | \$0 | \$1,096 | 0.791 | \$867 |
| 2028 | \$1,118 | \$0 | \$1,118 | 0.772 | \$863 |
| 2029 | \$1,140 | \$0 | \$1,140 | 0.753 | \$858 |
| 2030 | \$1,163 | \$0 | \$1,163 | 0.734 | \$854 |
| 2031 | \$1,186 | \$0 | \$1,186 | 0.717 | \$850 |
| 2032 | \$1,210 | \$0 | \$1,210 | 0.699 | \$846 |
| 2033 | \$1,234 | \$0 | \$1,234 | 0.682 | \$842 |
| 2034 | \$1 , 259 | \$0 | \$1 , 259 | 0.665 | \$838 |
| 2035 | \$1,284 | \$0 | \$1,284 | 0.649 | \$834 |
| 2036 | \$1,310 | \$0 | \$1,310 | 0.633 | \$829 |
| 2037 | \$1,336 | \$151 , 250 | \$152 , 586 | 0.618 | \$94,276 |
| %NPV | 15.62% | 84.38% | | | |
| | \$17,300 | \$93,450 | | | |
| Discounting Convention | М-О-У | М-О-У | | | |
| Inflation Schedule | 2017 General | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$906 | |
| 2019 | \$1,807 | |
| 2020 | \$2,704 | |
| 2021 | \$3 , 597 | |
| 2022 | \$4,485 | |
| 2023 | \$5,369 | |
| 2024 | \$6,248 | |
| 2025 | \$7 , 124 | |
| 2026 | \$7 , 995 | |
| 2027 | \$8,862 | |
| 2028 | \$9,724 | |
| 2029 | \$10,582 | |
| 2030 | \$11,437 | |
| 2031 | \$12,287 | |
| 2032 | \$13,132 | |
| 2033 | \$13,974 | |
| 2034 | \$14,812 | |
| 2035 | \$15,645 | |
| 2036 | \$16,475 | |
| 2037 | \$110 , 750 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*2750= \$27,750

- 2. Renovation/Conversion
 - a. Renovation/Conversion

To be made practical for conversion, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is 55*2,750 = 121,250.

3. Other DOD or Federal Agency Facilities

a. Renovation for DOD or Other Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*2,750 = \$151,250.

Due to the relatively small size of this building (2,750 sf), location, lack of parking/ access, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

4. Caretaker Status

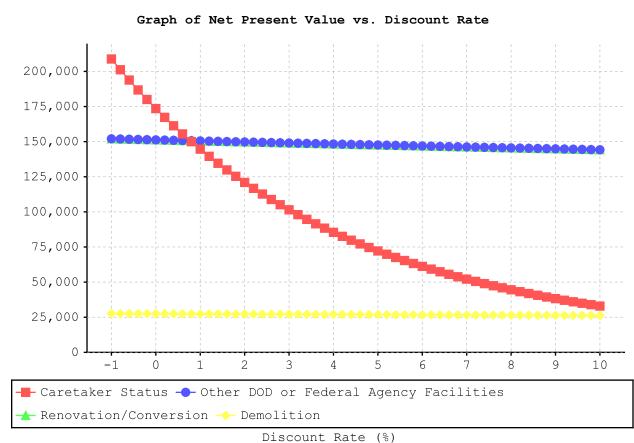
a. Caretaker Maintenance

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation/ Construction

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred

at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Dollars

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| | et riesent varu | es for each biscount Rate | |
|-----------------------------|---------------------|-----------------------------|---------------------|
| Discount Rate = | -1.0% | Discount Rate = | 0.6% |
| Demolition | \$ 27,639 | Demolition | \$ 27,418 |
| Other DOD or Federal Agency | \$ 152 , 012 | Other DOD or Federal Agency | \$ 150 , 798 |
| Renovation/Conversion | \$ 152 , 012 | Renovation/Conversion | \$ 150 , 798 |
| Caretaker Status | \$ 208,838 | Caretaker Status | \$ 155 , 515 |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Discount Rate - | | Discount Rate - | |
| Demolition | \$ 27,611 | Demolition | \$ 27,391 |
| Other DOD or Federal Agency | \$ 151,859 | Caretaker Status | \$ 149,973 |
| Renovation/Conversion | \$ 151,859 | Other DOD or Federal Agency | \$ 150,649 |
| Caretaker Status | \$ 201,194 | Renovation/Conversion | \$ 150,649 |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Demolition | \$ 27 , 583 | Demolition | \$ 27 , 364 |
| Other DOD or Federal Agency | \$ 151 , 706 | Caretaker Status | \$ 144 , 647 |
| Renovation/Conversion | \$ 151 , 706 | Other DOD or Federal Agency | \$ 150,499 |
| Caretaker Status | \$ 193,855 | Renovation/Conversion | \$ 150,499 |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Demolition | \$ 27,555 | Demolition | \$ 27,336 |
| Other DOD or Federal Agency | \$ 151,553 | Caretaker Status | \$ 139,528 |
| Renovation/Conversion | \$ 151,553 | Other DOD or Federal Agency | \$ 150,351 |
| Caretaker Status | \$ 186,805 | Renovation/Conversion | \$ 150,351 |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Demolition | \$ 27 , 528 | Demolition | \$ 27,309 |
| Other DOD or Federal Agency | \$ 151 , 401 | Caretaker Status | \$ 134,608 |
| Renovation/Conversion | \$ 151 , 401 | Other DOD or Federal Agency | \$ 150,202 |
| Caretaker Status | \$ 180,035 | Renovation/Conversion | \$ 150,202 |
| Discount Rate = | -0.0% | Discount Rate = | 1.6% |
| Demolition | \$ 27,500 | Demolition | \$ 27,283 |
| Other DOD or Federal Agency | \$ 151,250 | Caretaker Status | \$ 129,879 |
| Renovation/Conversion | \$ 151 , 250 | Other DOD or Federal Agency | \$ 150,054 |
| Caretaker Status | \$ 173 , 532 | Renovation/Conversion | \$ 150,054 |
| Discount Rate = | 0.2% | Discount Rate = | 1.8% |
| Demolition | \$ 27,473 | Demolition | \$ 27,256 |
| Other DOD or Federal Agency | \$ 151,099 | Caretaker Status | \$ 125 , 332 |
| Renovation/Conversion | \$ 151,099 | Other DOD or Federal Agency | \$ 149,907 |
| Caretaker Status | \$ 167,284 | Renovation/Conversion | \$ 149,907 |
| Discount Rate = | 0.4% | Discount Rate = | 2.0% |
| Demolition | \$ 27,445 | Demolition | \$ 27,229 |
| Other DOD or Federal Agency | \$ 150,948 | Caretaker Status | \$ 120,960 |
| Renovation/Conversion | \$ 150,948 | Other DOD or Federal Agency | \$ 149,760 |
| Caretaker Status | \$ 161,282 | Renovation/Conversion | \$ 149,760 |
| | | | |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 2.2% | Discount Rate = | 3.8% |
|---|--|---|--|
| Demolition | \$ 27,202 | Demolition | \$ 26,992 |
| Caretaker Status | \$ 116,756 | Caretaker Status | \$ 88,411 |
| Other DOD or Federal Agency | \$ 149,613 | Other DOD or Federal Agency | \$ 148,456 |
| Renovation/Conversion | \$ 149,613 | Renovation/Conversion | \$ 148,456 |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Demolition | \$ 27 , 176 | Demolition | \$ 26 , 966 |
| Caretaker Status | \$ 112,713 | Caretaker Status | \$ 85,444 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 148,313 |
| Renovation/Conversion | \$ 149,467 | Renovation/Conversion | \$ 148,313 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Demolition | \$ 27,149 | Demolition | \$ 26,940 |
| Caretaker Status | \$ 108,825 | Caretaker Status | \$ 82,589 |
| Other DOD or Federal Agency | \$ 149,321 | Other DOD or Federal Agency | \$ 148,170 |
| Renovation/Conversion | \$ 149,321 | Renovation/Conversion | \$ 148,170 |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Demolition | \$ 27,123 | Demolition | \$ 26,914 |
| Caretaker Status | \$ 105,086 | Caretaker Status | \$ 79 , 840 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 149,176 | Renovation/Conversion | \$ 148,028 |
| | | | |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| Discount Rate = | \$ 27 , 097 | Discount Rate = | \$ 26,889 |
| Demolition Caretaker Status | \$ 27,097 \$ 101,488 | Demolition Caretaker Status | \$ 26,889 \$ 77,194 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,097 \$ 101,488 \$ 149,031 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,889 \$ 77,194 \$ 147,887 |
| Demolition Caretaker Status | \$ 27,097 \$ 101,488 | Demolition Caretaker Status | \$ 26,889 \$ 77,194 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 \$ 147,746 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 \$ 147,746 \$ 147,746 \$ 147,746 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 \$ 3.4% \$ 27,044 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 \$ 147,746 \$ 147,746 \$ 147,746 \$ 147,746 \$ 147,746 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 \$ 3.4% \$ 27,044 \$ 94,698 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 \$ 147,746 \$ 147,746 5.0% \$ 26,837 \$ 72,193 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,743 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 \$ 147,746 \$ 147,746 \$ 147,746 5.0% \$ 26,837 \$ 72,193 \$ 147,605 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 \$ 3.4% \$ 27,044 \$ 94,698 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 \$ 147,746 \$ 147,746 5.0% \$ 26,837 \$ 72,193 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,743 \$ 148,743 \$ 148,743 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 \$ 147,746 \$ 147,746 5.0% \$ 26,837 \$ 72,193 \$ 147,605 \$ 147,605 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 3.4% \$ 27,044 \$ 94,698 \$ 148,743 \$ 148,743 \$ 148,743 \$ 148,743 \$ 148,743 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 \$ 147,746 \$ 147,746 \$ 147,746 5.0% \$ 26,837 \$ 72,193 \$ 147,605 \$ 147,605 \$ 147,605 \$ 147,605 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 3.4% \$ 27,044 \$ 94,698 \$ 148,743 \$ 14 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 \$ 147,746 \$ 147,746 \$ 147,746 5.0% \$ 26,837 \$ 72,193 \$ 147,605 \$ 147,605 \$ 147,605 \$ 147,605 \$ 147,605 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,097 \$ 101,488 \$ 149,031 \$ 149,031 3.2% \$ 27,070 \$ 98,028 \$ 148,887 \$ 148,887 \$ 148,887 \$ 148,887 3.4% \$ 27,044 \$ 94,698 \$ 148,743 \$ 148,743 \$ 148,743 \$ 148,743 \$ 148,743 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 26,889 \$ 77,194 \$ 147,887 \$ 147,887 4.8% \$ 26,863 \$ 74,646 \$ 147,746 \$ 147,746 \$ 147,746 5.0% \$ 26,837 \$ 72,193 \$ 147,605 \$ 147,605 \$ 147,605 \$ 147,605 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|---|--|---|--|
| Demolition | \$ 26 , 786 | Demolition | \$ 26,585 |
| Caretaker Status | \$ 67,556 | Caretaker Status | \$ 52,117 |
| Other DOD or Federal Agency | \$ 147,325 | Other DOD or Federal Agency | \$ 146,219 |
| Renovation/Conversion | \$ 147,325 | Renovation/Conversion | \$ 146,219 |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Demolition | \$ 26,761 | Demolition | \$ 26,560 |
| Caretaker Status | \$ 65,365 | Caretaker Status | \$ 50 , 490 |
| Other DOD or Federal Agency | \$ 147,185 | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 147,185 | Renovation/Conversion | \$ 146,082 |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Demolition | \$ 26,736 | Demolition | \$ 26,536 |
| Caretaker Status | \$ 63 , 255 | Caretaker Status | \$ 48,921 |
| Other DOD or Federal Agency | \$ 147,046 | Other DOD or Federal Agency | \$ 145,946 |
| Renovation/Conversion | \$ 147,046 | Renovation/Conversion | \$ 145,946 |
| Discount Rate = | 6.0% | Discount Rate = | 7.6% |
| Demolition | \$ 26,710 | Demolition | \$ 26,511 |
| Caretaker Status | \$ 61,222 | Caretaker Status | \$ 47 , 408 |
| Other DOD or Federal Agency | \$ 146,907 | Other DOD or Federal Agency | \$ 145,811 |
| Renovation/Conversion | \$ 146,907 | Renovation/Conversion | \$ 145,811 |
| Discount Rate = | 6.2% | Discount Rate = | 7 8 % |
| | 0.2% | Discount Rate - | 7.0% |
| Demolition | \$ 26,685 | Discount Rate - | \$ 26,486 |
| | | | |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,685 \$ 59,264 \$ 146,769 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,486 \$ 45,949 \$ 145,675 |
| Demolition Caretaker Status | \$ 26,685 \$ 59,264 | Demolition Caretaker Status | \$ 26,486 \$ 45,949 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 \$ 145,540 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 \$ 146,631 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 \$ 145,540 \$ 145,540 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 \$ 146,631 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 \$ 145,540 \$ 145,540 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 \$ 146,631 6.6% \$ 26,635 \$ 55,558 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 \$ 145,540 \$ 145,540 \$ 145,540 8.2% \$ 26,437 \$ 43,187 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 \$ 146,631 \$ 146,631 6.6% \$ 26,635 \$ 55,558 \$ 146,493 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 \$ 145,540 \$ 145,540 8.2% \$ 26,437 \$ 43,187 \$ 145,406 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 \$ 146,631 6.6% \$ 26,635 \$ 55,558 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 \$ 145,540 \$ 145,540 \$ 145,540 8.2% \$ 26,437 \$ 43,187 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 \$ 146,631 \$ 146,631 6.6% \$ 26,635 \$ 55,558 \$ 146,493 \$ 146,493 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 \$ 145,540 \$ 145,540 8.2% \$ 26,437 \$ 145,540 \$ 145,406 \$ 145,406 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 \$ 146,631 \$ 146,631 6.6% \$ 26,635 \$ 55,558 \$ 146,493 \$ 146,493 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 \$ 145,540 \$ 145,540 8.2% \$ 26,437 \$ 145,540 \$ 145,406 \$ 145,406 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 \$ 146,631 6.6% \$ 26,635 \$ 55,558 \$ 146,493 \$ 146,493 \$ 146,493 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 \$ 145,540 \$ 145,540 \$ 145,540 \$.145,540 \$.145,406 \$ 145,406 \$ 145,406 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 26,685 \$ 59,264 \$ 146,769 \$ 146,769 \$ 146,769 6.4% \$ 26,660 \$ 57,377 \$ 146,631 \$ 146,631 6.6% \$ 26,635 \$ 55,558 \$ 146,493 \$ 146,493 \$ 146,493 \$ 146,493 \$ 146,493 \$ 146,493 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 26,486 \$ 45,949 \$ 145,675 \$ 145,675 8.0% \$ 26,462 \$ 44,543 \$ 145,540 \$ 145,540 \$ 145,540 8.2% \$ 26,437 \$ 43,187 \$ 145,406 \$ 145,406 \$ 145,406 \$ 145,406 \$ 145,406 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount | Rate = | 8.6% |
|----------|--------|------|
| | | |

| | 8.6% |
|---|--|
| Demolition | \$ 26,389 |
| Caretaker Status | \$ 40,618 |
| Other DOD or Federal Agency | \$ 145,138 |
| Renovation/Conversion | \$ 145,138 |
| | · · · · · · · · · · · · · · · · · · · |
| Discount Rate = | 8.8% |
| Demolition | \$ 26,364 |
| Caretaker Status | \$ 39,401 |
| Other DOD or Federal Agency | \$ 145,004 |
| Renovation/Conversion | \$ 145,004 |
| | |
| Discount Rate = | 9.0% |
| Demolition | \$ 26,340 |
| Caretaker Status | \$ 38,227 |
| Other DOD or Federal Agency | \$ 144,871 |
| Renovation/Conversion | \$ 144,871 |
| | |
| Discount Rate = | 9.2% |
| Demolition | \$ 26 , 316 |
| Caretaker Status | \$ 37,094 |
| Other DOD or Federal Agency | \$ 144,738 |
| Renovation/Conversion | \$ 144,738 |
| | |
| Discount Rate = | 9.4% |
| Demolition | \$ 26,292 |
| Caretaker Status | \$ 36,001 |
| Other DOD or Federal Agency | \$ 144,606 |
| | |
| Renovation/Conversion | \$ 144,606 |
| Renovation/Conversion | |
| | |
| Renovation/Conversion | |
| Renovation/Conversion Discount Rate = | 9.6% |
| Renovation/Conversion Discount Rate = Demolition | 9.6% \$ 26,268 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.6% \$ 26,268 \$ 34,947 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 9.8% |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 9.8% \$ 26,244 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 9.8% \$ 26,244 \$ 33,929 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 9.8% \$ 26,244 \$ 33,929 \$ 144,342 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 9.8% \$ 26,244 \$ 33,929 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 9.8% \$ 26,244 \$ 33,929 \$ 144,342 \$ 144,342 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 9.8% \$ 26,244 \$ 33,929 \$ 144,342 \$ 144,342 \$ 144,342 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 9.8% \$ 26,244 \$ 33,929 \$ 144,342 \$ 144,342 \$ 144,342 \$ 144,342 \$ 10.0% \$ 26,220 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 9.8% \$ 26,244 \$ 33,929 \$ 144,342 \$ 144,342 \$ 144,342 \$ 144,342 \$ 10.0% \$ 26,220 \$ 32,947 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 9.6% \$ 26,268 \$ 34,947 \$ 144,474 \$ 144,474 9.8% \$ 26,244 \$ 33,929 \$ 144,342 \$ 144,342 \$ 144,342 \$ 144,342 \$ 10.0% \$ 26,220 |

Date Generated: 12 June 2018 Time Generated: 16.34.30 Version: ECONPACK 4.0.32

Building 267 Disposal Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|--|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 267 |
| | that meets the EXORD requirement to reduce excess square footage. |

Background:

Building 267 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 1,175*10 = \$11,750. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 44224, Organizational Storage. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 1,175*55 = \$64,625. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative This is a viable alternative.

Other DOD or Federal Agency Facilities - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*1,175 = \$64,625. Due to the relatively small size of this building (1,175 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*1,175 = \$388/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

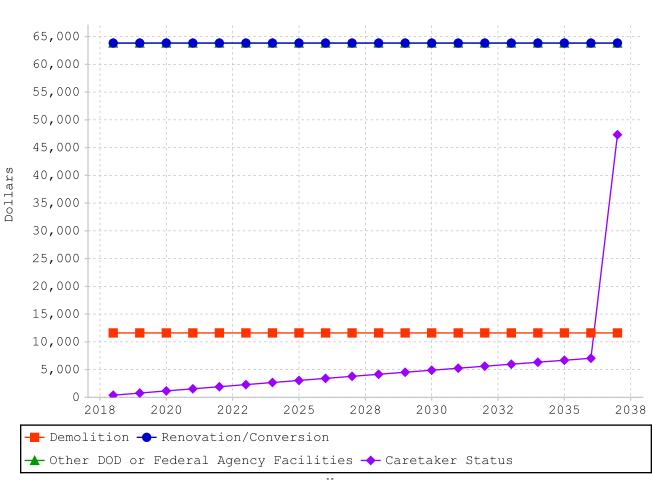
Economic Indicators:

| Alternative | NPV |
|--|--------------------|
| Demolition | \$ 11,606 |
| Renovation/Conversion | \$ 63 , 832 |
| Other DOD or Federal Agency Facilities | \$ 63,832 |
| Caretaker Status | \$ 47,321 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 267 is the most economical alternative for the Army.

Action Officer : Dean MillerPhone Number: 706-545-3229Email Address: sherman.d.miller.civ@mail.milOrganization: Master Planning Division, DPW



Economic Analysis Graph

Net Present Value

Year

3

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|--------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$11,750 | \$11,750 | 0.988 | \$11,606 | \$11,606 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$11,606 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$11,606 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$11,606 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$11,606 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$11,606 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$11,606 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$11,606 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$11,606 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$11,606 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$11,606 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$11,606 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$11,606 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$11,606 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$11,606 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$11,606 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$11,606 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$11,606 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$11 , 606 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$11,606 |
| %NPV | 100.00% | | | | |
| | \$11,606 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| | 0 50 | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/Con version | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|-------------------|------------------------------------|
| 2018 | \$64,625 | \$64,625 | 0.988 | \$63 , 832 | \$63,832 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$63 , 832 |
| 2020 | \$ O | \$0 | 0.94 | \$0 | \$63,832 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$63,832 |
| 2022 | \$ O | \$0 | 0.895 | \$0 | \$63,832 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$63,832 |
| 2024 | \$ O | \$0 | 0.852 | \$0 | \$63,832 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$63,832 |
| 2026 | \$ O | \$0 | 0.811 | \$0 | \$63,832 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$63,832 |
| 2028 | \$ O | \$0 | 0.772 | \$0 | \$63,832 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$63,832 |
| 2030 | \$ O | \$0 | 0.734 | \$0 | \$63,832 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$63,832 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$63,832 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$63,832 |
| 2034 | \$ O | \$0 | 0.665 | \$0 | \$63,832 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$63,832 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$63 , 832 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$63 , 832 |
| %NPV | 100.00% | | | | |
| | \$63,832 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| D'anna Data | | | | | |

Alternative: Other DOD or Federal Agency Facilities

| Year | Other DOD/Agency Reno | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|-----------------------------|----------------------------|--|-------------------|------------------------------------|
| 2018 | \$64 , 625 | \$64,625 | 0.988 | \$63 , 832 | \$63 , 832 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$63 , 832 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$63 , 832 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$63,832 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$63 , 832 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$63,832 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$63,832 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$63 , 832 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$63,832 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$63,832 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$63,832 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$63,832 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$63,832 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$63,832 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$63 , 832 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$63,832 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$63,832 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$63,832 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$63,832 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$63 , 832 |
| %NPV | 100.00% | | | | |
| | \$63 , 832 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Discount Data | • 0 E % | | | | |

Alternative: Caretaker Status

| Year | Caretaker Status Maintenance | Renovation after Caretaker | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|------------------------------------|----------------------------------|----------------------------|--|------------------|
| 2018 | \$392 | \$0 | \$392 | 0.988 | \$387 |
| 2019 | \$400 | \$0 | \$400 | 0.964 | \$385 |
| 2020 | \$408 | \$0 | \$408 | 0.94 | \$383 |
| 2021 | \$416 | \$0 | \$416 | 0.917 | \$381 |
| 2022 | \$424 | \$0 | \$424 | 0.895 | \$380 |
| 2023 | \$433 | \$0 | \$433 | 0.873 | \$378 |
| 2024 | \$441 | \$0 | \$441 | 0.852 | \$376 |
| 2025 | \$450 | \$0 | \$450 | 0.831 | \$374 |
| 2026 | \$459 | \$0 | \$459 | 0.811 | \$372 |
| 2027 | \$468 | \$0 | \$468 | 0.791 | \$370 |
| 2028 | \$478 | \$0 | \$478 | 0.772 | \$369 |
| 2029 | \$487 | \$0 | \$487 | 0.753 | \$367 |
| 2030 | \$497 | \$0 | \$497 | 0.734 | \$365 |
| 2031 | \$507 | \$0 | \$507 | 0.717 | \$363 |
| 2032 | \$517 | \$0 | \$517 | 0.699 | \$361 |
| 2033 | \$527 | \$0 | \$527 | 0.682 | \$360 |
| 2034 | \$538 | \$0 | \$538 | 0.665 | \$358 |
| 2035 | \$549 | \$0 | \$549 | 0.649 | \$356 |
| 2036 | \$560 | \$0 | \$560 | 0.633 | \$354 |
| 2037 | \$571 | \$64 , 625 | \$65 , 196 | 0.618 | \$40,281 |
| %NPV | 15.62% | 84.38% | | | |
| | \$7 , 393 | \$39 , 929 | | | |
| Discounting Convention | М-О-Х | М-О-У | | | |
| Inflation Schedule | 2017 General | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$387 | |
| 2019 | \$772 | |
| 2020 | \$1,156 | |
| 2021 | \$1,537 | |
| 2022 | \$1,916 | |
| 2023 | \$2,294 | |
| 2024 | \$2,670 | |
| 2025 | \$3,044 | |
| 2026 | \$3,416 | |
| 2027 | \$3,787 | |
| 2028 | \$4,155 | |
| 2029 | \$4,522 | |
| 2030 | \$4,887 | |
| 2031 | \$5 , 250 | |
| 2032 | \$5,612 | |
| 2033 | \$5 , 971 | |
| 2034 | \$6,329 | |
| 2035 | \$6,685 | |
| 2036 | \$7,040 | |
| 2037 | \$47,321 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*1175= \$11,750

- 2. Renovation/Conversion
 - a. Renovation/Conversion

To be made practical, this building would require total renovation to include repairing

or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*1,175 = \$64,625.

- 3. Other DOD or Federal Agency Facilities
 - a. Other DOD/Agency Reno

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*1,175 = \$64,625.

Due to the relatively small size of this building (1,175 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

4. Caretaker Status

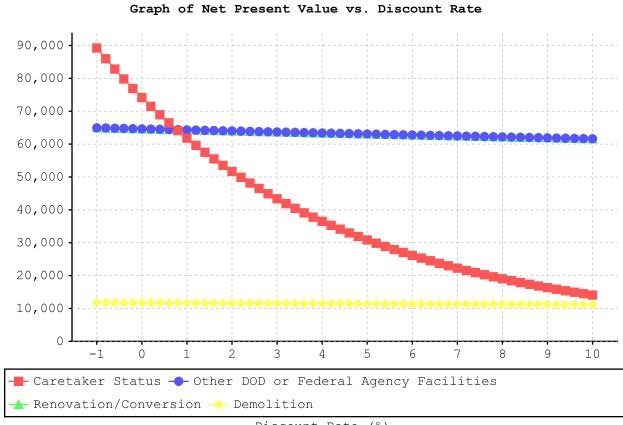
a. Caretaker Status Maintenance

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation after Caretaker

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred

at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Discount Rate (%)

Dollars

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | -1.0% | | Discount Rate = | 0.6% | |
|---|-------|------------------------|--|-------|------------------------|
| Demolition | | \$ 11,809 | Demolition | | \$ 11 , 715 |
| Other DOD or Federal Agency | | \$ 64,951 | Other DOD or Federal Agency | | \$ 64,432 |
| Renovation/Conversion | | \$ 64 , 951 | Renovation/Conversion | | \$ 64,432 |
| Caretaker Status | | \$ 89,232 | Caretaker Status | | \$ 66,448 |
| Discount Rate = | 0 0 % | | Discount Rate = | 0 0 0 | |
| Discount Rate - | -0.03 | | | 0.03 | |
| Demolition | | \$ 11,797 | Demolition | | \$ 11,703 |
| Other DOD or Federal Agency | | \$ 64,885 | Caretaker Status | | \$ 64,080 |
| Renovation/Conversion | | \$ 64,885 | Other DOD or Federal Agency | | \$ 64,368 |
| Caretaker Status | | \$ 85,966 | Renovation/Conversion | | \$ 64,368 |
| Discount Rate = | -0.6% | | Discount Rate = | 1.0% | |
| Demolition | | \$ 11 , 785 | Demolition | | \$ 11 , 692 |
| Other DOD or Federal Agency | | \$ 64,820 | Caretaker Status | | \$ 61,805 |
| Renovation/Conversion | | \$ 64,820 | Other DOD or Federal Agency | | \$ 64,304 |
| Caretaker Status | | \$ 82,830 | Renovation/Conversion | | \$ 64,304 |
| Discount Rate = | -0.4% | | Discount Rate = | 1.2% | |
| Demolition | | \$ 11,774 | Demolition | | \$ 11,680 |
| Other DOD or Federal Agency | | \$ 64,755 | Caretaker Status | | \$ 59,617 |
| Renovation/Conversion | | \$ 64,755 | Other DOD or Federal Agency | | \$ 64,241 |
| Caretaker Status | | \$ 79,818 | Renovation/Conversion | | \$ 64,241 |
| Discount Rate = | -0.2% | | Discount Rate = | 1.4% | |
| | 0.20 | ¢ 11 7C0 | | 1.10 | ¢ 11 CCO |
| Demolition Other DOD or Federal Agency | | \$ 11,762 \$ 64,690 | Demolition Caretaker Status | | \$ 11,669 \$ 57,515 |
| Renovation/Conversion | | \$ 64,690 \$ 64,690 | Other DOD or Federal Agency | | \$ 64,177 |
| Caretaker Status | | \$ 76,925 | Renovation/Conversion | | \$ 64,177 |
| | | 4 /0/020 | | | + 01/1/1 |
| Discount Rate = | -0.0% | | Discount Rate = | 1.6% | |
| Demolition | | | Demolition | | \$ 11 , 657 |
| Other DOD or Federal Agency | | • | Caretaker Status | | \$ 55,494 |
| Renovation/Conversion | | | Other DOD or Federal Agency | | \$ 64,114 |
| Caretaker Status | | \$ 74 , 146 | Renovation/Conversion | | \$ 64,114 |
| Discount Rate = | 0.2% | | Discount Rate = | 1.8% | |
| Demolition | | \$ 11 , 738 | Demolition | | \$ 11,646 |
| Other DOD or Federal Agency | | \$ 64,560 | Caretaker Status | | \$ 53,552 |
| Renovation/Conversion | | \$ 64,560 | Other DOD or Federal Agency | | \$ 64,051 |
| Caretaker Status | | | | | |
| | | \$ 71,477 | Renovation/Conversion | | \$ 64,051 |
| Discount Rate = | 0.4% | \$ 71 , 477 | Renovation/Conversion Discount Rate = | 2.0% | \$ 64 , 051 |
| Discount Rate = | 0.4% | \$ 71,477 \$ 11,727 | | 2.0% | \$ 64,051 \$ 11,634 |
| | 0.4% | | Discount Rate = | 2.0% | |
| Demolition | 0.4% | \$ 11,727 | Discount Rate = | 2.0% | \$ 11,634 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 2.2% | | Discount Rate = | 3.8% | |
|---|----------------------|---|---|------|--|
| Demolition | | \$ 11,623 | Demolition | | \$ 11,533 |
| Caretaker Status | | \$ 49,887 | Caretaker Status | | \$ 37,776 |
| Other DOD or Federal Agency | | \$ 63,926 | Other DOD or Federal Agency | | \$ 63,431 |
| Renovation/Conversion | | \$ 63,926 | Renovation/Conversion | | \$ 63,431 |
| Discount Rate = | 2.4% | | Discount Rate = | 4.0% | |
| Demolition | | \$ 11,611 | Demolition | | \$ 11 , 522 |
| Caretaker Status | | \$ 48,160 | Caretaker Status | | \$ 36,509 |
| Other DOD or Federal Agency | | \$ 63,863 | Other DOD or Federal Agency | | \$ 63,370 |
| Renovation/Conversion | | \$ 63,863 | Renovation/Conversion | | \$ 63 , 370 |
| Discount Rate = | 2.6% | | Discount Rate = | 4.2% | |
| Demolition | | \$ 11,600 | Demolition | | \$ 11 , 511 |
| Caretaker Status | | \$ 46,499 | Caretaker Status | | \$ 35,288 |
| Other DOD or Federal Agency | | \$ 63,801 | Other DOD or Federal Agency | | \$ 63,309 |
| Renovation/Conversion | | \$ 63,801 | Renovation/Conversion | | \$ 63,309 |
| Discount Rate = | 2.8% | | Discount Rate = | 4.4% | |
| Demolition | | \$ 11,589 | Demolition | | \$ 11,500 |
| Caretaker Status | | \$ 44,901 | Caretaker Status | | \$ 34,114 |
| Other DOD or Federal Agency | | \$ 63,739 | Other DOD or Federal Agency | | \$ 63,249 |
| Renovation/Conversion | | \$ 63,739 | Renovation/Conversion | | \$ 63,249 |
| | | | | | |
| Discount Rate = | 3.0% | | Discount Rate = | 4.6% | |
| Discount Rate = | | \$ 11 , 578 | Discount Rate = | 4.6% | \$ 11,489 |
| Demolition Caretaker Status | | \$ 43,364 | Demolition Caretaker Status | | \$ 32,983 |
| Demolition Caretaker Status Other DOD or Federal Agency | | \$ 43,364 \$ 63,677 | Demolition Caretaker Status Other DOD or Federal Agency | | \$ 32,983 \$ 63,188 |
| Demolition Caretaker Status | | \$ 43,364 | Demolition Caretaker Status | | \$ 32,983 |
| Demolition Caretaker Status Other DOD or Federal Agency | | \$ 43,364 \$ 63,677 | Demolition Caretaker Status Other DOD or Federal Agency | | \$ 32,983 \$ 63,188 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 3.2% | \$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | | \$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 3.2% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | | \$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 11,478 \$ 31,895 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 3.2% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | | \$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 31,895 \$ 63,128 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 3.2% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | | \$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 11,478 \$ 31,895 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 3.2% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 4.8% | \$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 31,895 \$ 63,128 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 3.2% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615 \$ 63,615</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 4.8% | \$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 31,895 \$ 63,128 \$ 63,128 \$ 11,467 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 3.2% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615 \$ 63,615 \$ 11,555 \$ 40,463</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 4.8% | \$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 31,895 \$ 63,128 \$ 63,128 \$ 63,128 \$ 11,467 \$ 30,847 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 3.2% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615 \$ 63,615 \$ 11,555 \$ 40,463 \$ 63,554</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 4.8% | <pre>\$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 31,895 \$ 63,128 \$ 63,128 \$ 63,128 \$ 11,467 \$ 30,847 \$ 63,068</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 3.2% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615 \$ 63,615 \$ 11,555 \$ 40,463 \$ 63,554</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 4.8% | \$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 31,895 \$ 63,128 \$ 63,128 \$ 63,128 \$ 11,467 \$ 30,847 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 3.2% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615 \$ 63,615 \$ 11,555 \$ 40,463 \$ 63,554</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 4.8% | <pre>\$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 31,895 \$ 63,128 \$ 63,128 \$ 63,128 \$ 11,467 \$ 30,847 \$ 63,068</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 3.2% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615 \$ 63,615 \$ 63,615 \$ 11,555 \$ 40,463 \$ 63,554 \$ 63,554 \$ 63,554 \$ 11,544</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 4.8% | <pre>\$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 31,895 \$ 63,128 \$ 63,128 \$ 63,128 \$ 11,467 \$ 30,847 \$ 63,068 \$ 63,068 \$ 63,068</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 3.2% 3.4% 3.6% | \$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615 \$ 63,615 \$ 11,555 \$ 40,463 \$ 63,554 \$ 63,554 \$ 11,544 \$ 39,094 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 4.8% | <pre>\$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 31,895 \$ 63,128 \$ 63,128 \$ 63,128 \$ 11,467 \$ 30,847 \$ 63,068 \$ 63,068 \$ 63,068 \$ 63,068</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 3.2% 3.4% 3.6% | <pre>\$ 43,364 \$ 63,677 \$ 63,677 \$ 11,566 \$ 41,885 \$ 63,615 \$ 63,615 \$ 63,615 \$ 63,615 \$ 11,555 \$ 40,463 \$ 63,554 \$ 63,554 \$ 11,544 \$ 39,094 \$ 63,492</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 4.8% | <pre>\$ 32,983 \$ 63,188 \$ 63,188 \$ 11,478 \$ 31,895 \$ 63,128 \$ 63,128 \$ 63,128 \$ 11,467 \$ 30,847 \$ 63,068 \$ 63,068 \$ 63,068</pre> |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 5.4% | | Discount Rate = | 7.0% | |
|---|--------------|--|---|------|--|
| Demolition | | \$ 11,445 | Demolition | | \$ 11,359 |
| Caretaker Status | | | Caretaker Status | | \$ 22,269 |
| Other DOD or Federal Agency | | | Other DOD or Federal Agency | | |
| Renovation/Conversion | | | Renovation/Conversion | | \$ 62,475 |
| | | . , | | | . , |
| Discount Rate = | 5.6% | | Discount Rate = | 7.2% | |
| Demolition | | \$ 11,434 | Demolition | | \$ 11,349 |
| Caretaker Status | | \$ 27,929 | Caretaker Status | | \$ 21 , 573 |
| Other DOD or Federal Agency | | \$ 62,888 | Other DOD or Federal Agency | | |
| Renovation/Conversion | | \$ 62,888 | Renovation/Conversion | | \$ 62,417 |
| Discount Rate = | 5.8% | | Discount Rate = | 7.4% | |
| Demolition | | \$ 11,423 | Demolition | | \$ 11,338 |
| Caretaker Status | | \$ 27 , 028 | Caretaker Status | | \$ 20 , 903 |
| Other DOD or Federal Agency | | \$ 62,829 | Other DOD or Federal Agency | | \$ 62,359 |
| Renovation/Conversion | | \$ 62,829 | Renovation/Conversion | | \$ 62,359 |
| Discount Rate = | 6.0% | | Discount Rate = | 7.6% | |
| Demolition | | \$ 11,413 | Demolition | | \$ 11 , 327 |
| Caretaker Status | | | Caretaker Status | | \$ 20,257 |
| Other DOD or Federal Agency | | \$ 62,769 | Other DOD or Federal Agency | | |
| Renovation/Conversion | | | Renovation/Conversion | | \$ 62,301 |
| | | | | | |
| Discount Rate = | 6.2% | | Discount Rate = | 7.8% | |
| | | \$ 11 402 | | 7.8% | |
| Demolition | | \$ 11,402 \$ 25 322 | Demolition | 7.8% | \$ 11 , 317 |
| Demolition Caretaker Status | | \$ 25,322 | Demolition Caretaker Status | | \$ 11,317 \$ 19,633 |
| Demolition | | \$ 25,322 | Demolition | | \$ 11 , 317 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | | \$ 25,322 \$ 62,710 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | | \$ 11,317 \$ 19,633 \$ 62,243 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 6.4% | \$ 25,322 \$ 62,710 \$ 62,710 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | | \$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 6.4% | \$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | | \$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 62,243 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 6.4% | \$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 6.4% | \$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033 \$ 62,185</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 6.4% | \$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 6.4% | \$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033 \$ 62,185</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 6.4% | <pre>\$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 \$ 62,651</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033 \$ 62,185 \$ 62,185 \$ 62,185 \$ 11,296</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 6.4% | <pre>\$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 \$ 62,651 \$ 62,651 \$ 11,380 \$ 23,739</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033 \$ 62,185 \$ 62,185 \$ 62,185 \$ 11,296 \$ 11,296 \$ 18,453</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 6.4% | <pre>\$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 \$ 62,651 \$ 62,651 \$ 11,380 \$ 23,739 \$ 62,592</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033 \$ 62,185 \$ 62,185 \$ 62,185 \$ 11,296 \$ 18,453 \$ 62,128</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 6.4% | <pre>\$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 \$ 62,651 \$ 62,651 \$ 11,380 \$ 23,739 \$ 62,592</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033 \$ 62,185 \$ 62,185 \$ 62,185 \$ 11,296 \$ 11,296 \$ 18,453</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 6.4% | <pre>\$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 \$ 62,651 \$ 62,651 \$ 11,380 \$ 23,739 \$ 62,592</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033 \$ 62,185 \$ 62,185 \$ 62,185 \$ 11,296 \$ 18,453 \$ 62,128</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 6.4% | <pre>\$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 \$ 62,651 \$ 62,651 \$ 11,380 \$ 23,739 \$ 62,592</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033 \$ 62,185 \$ 62,185 \$ 62,185 \$ 11,296 \$ 18,453 \$ 62,128</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 6.4% 6.6% | <pre>\$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 \$ 62,651 \$ 62,651 \$ 62,651 \$ 62,592 \$ 62,592 \$ 62,592 \$ 62,592</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033 \$ 62,185 \$ 62,185 \$ 62,185 \$ 11,296 \$ 18,453 \$ 62,128 \$ 62,128</pre> |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 6.4% | <pre>\$ 25,322 \$ 62,710 \$ 62,710 \$ 11,391 \$ 24,516 \$ 62,651 \$ 62,651 \$ 62,651 \$ 11,380 \$ 23,739 \$ 62,592 \$ 62,592 \$ 11,370 \$ 22,990 \$ 62,534</pre> | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 8.0% | <pre>\$ 11,317 \$ 19,633 \$ 62,243 \$ 62,243 \$ 62,243 \$ 11,306 \$ 19,033 \$ 62,185 \$ 62,185 \$ 62,185 \$ 11,296 \$ 18,453 \$ 62,128 \$ 62,128 \$ 62,128</pre> |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Table of Net Present Values for each Discount Rate

Discount Rate = 8.6%

| | 0.06 | |
|--|--------------|--|
| Demolition | | \$ 11 , 275 |
| | | |
| Caretaker Status | | \$ 17,355 |
| Other DOD or Federal Agency | | \$ 62,013 |
| Renovation/Conversion | | \$ 62,013 |
| | | |
| Discount Rate = | 8 8 % | |
| Dibeoune nace | 0.00 | |
| Demolition | | \$ 11 , 265 |
| Caretaker Status | | \$ 16 , 835 |
| Other DOD or Federal Agency | | \$ 61 , 956 |
| Renovation/Conversion | | |
| Renovacion/conversion | | \$ 61 , 956 |
| | | |
| Discount Rate = | 9.0% | |
| Demelities | | с 11 ог <i>и</i> |
| Demolition | | \$ 11 , 254 |
| Caretaker Status | | \$ 16 , 334 |
| Other DOD or Federal Agency | | \$ 61,900 |
| Renovation/Conversion | | \$ 61 , 900 |
| | | , |
| Discount Data - | 0.0% | |
| Discount Rate = | 9.28 | |
| Demolition | | \$ 11,244 |
| Caretaker Status | | \$ 15,850 |
| | | |
| Other DOD or Federal Agency | | \$ 61,843 |
| Renovation/Conversion | | \$ 61,843 |
| | | |
| Discount Rate = | 9.4% | |
| | | |
| Demolition | | \$ 11,234 |
| Caretaker Status | | \$ 15 , 383 |
| Other DOD or Federal Agency | | \$ 61,786 |
| | | + 0± / /00 |
| Depertstien (Contremaion | | ¢ 61 706 |
| Renovation/Conversion | | \$ 61 , 786 |
| | | \$ 61 , 786 |
| Renovation/Conversion Discount Rate = | | \$ 61,786 |
| Discount Rate = | 9.6% | |
| Discount Rate = | 9.6% | \$ 11 , 224 |
| Discount Rate = Demolition Caretaker Status | 9.6% | \$ 11,224 \$ 14,932 |
| Discount Rate = | 9.6% | \$ 11 , 224 |
| Discount Rate = Demolition Caretaker Status | 9.6% | \$ 11,224 \$ 14,932 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.6% | \$ 11,224 \$ 14,932 \$ 61,730 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 9.6% | \$ 11,224 \$ 14,932 \$ 61,730 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.6% | \$ 11,224 \$ 14,932 \$ 61,730 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 9.6% | \$ 11,224 \$ 14,932 \$ 61,730 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 9.6% | \$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.6% | \$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 11,213 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.6% | <pre>\$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 14,497 \$ 61,674</pre> |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.6% | \$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 11,213 |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.6% | <pre>\$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 14,497 \$ 61,674</pre> |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.6% | <pre>\$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 14,497 \$ 61,674</pre> |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 1 | 9.6% 9.8% | <pre>\$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 14,497 \$ 61,674 \$ 61,674</pre> |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 1 Demolition | 9.6% 9.8% | <pre>\$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 14,497 \$ 61,674 \$ 61,674 \$ 11,203</pre> |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 1 | 9.6% 9.8% | <pre>\$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 14,497 \$ 61,674 \$ 61,674</pre> |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 1 Demolition | 9.6% 9.8% | <pre>\$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 14,497 \$ 61,674 \$ 61,674 \$ 11,203</pre> |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 1 Demolition Caretaker Status Other DOD or Federal Agency | 9.6% 9.8% | <pre>\$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 14,497 \$ 61,674 \$ 61,674 \$ 11,203 \$ 14,078 \$ 61,618</pre> |
| Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = 1 Demolition Caretaker Status | 9.6% 9.8% | <pre>\$ 11,224 \$ 14,932 \$ 61,730 \$ 61,730 \$ 11,213 \$ 14,497 \$ 61,674 \$ 61,674 \$ 11,203 \$ 14,078</pre> |

Date Generated: 12 June 2018 Time Generated: 16.35.24 Version: ECONPACK 4.0.32

Building 319 Disposal Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|--|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 319 that meets the EXORD requirement to reduce excess square |
| | footage. |

Background:

Building 319 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 919*10 = \$9,190. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 44224, Organizational Storage. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 919*55 = \$50,545. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative This is a viable alternative.

DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*919 = \$50,545. Due to the small size of this building (919 sf), location - inside the Lawson Army Airfield (LAAF) fence line, and the cost and time required for renovation, it's unlikely that another agency would

select it. This alternative is viable. This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*919 = \$303/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

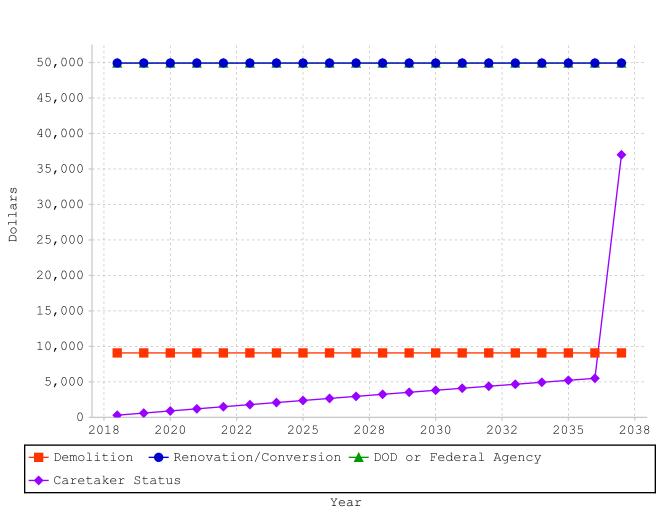
Economic Indicators:

| Alternative | NPV |
|-----------------------|--------------------|
| Demolition | \$ 9 , 077 |
| Renovation/Conversion | \$ 49,925 |
| DOD or Federal Agency | \$ 49 , 925 |
| Caretaker Status | \$ 37,002 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location (within Lawson Army Airfield fence line) and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 319 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | : Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$9,190 | \$9,190 | 0.988 | \$9,077 | \$9,077 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$9,077 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$9,077 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$9,077 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$9,077 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$9,077 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$9 , 077 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$9,077 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$9 , 077 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$9,077 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$9,077 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$9,077 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$9 , 077 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$9,077 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$9 , 077 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$9,077 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$9 , 077 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$9,077 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$9 , 077 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$9,077 |
| %NPV | 100.00% | | | | |
| | \$9 , 077 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Discount Data | .) E0 | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/Con version | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$50 , 545 | \$50 , 545 | 0.988 | \$49,925 | \$49 , 925 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$49,925 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$49,925 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$49,925 |
| 2022 | \$0 | \$O | 0.895 | \$0 | \$49,925 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$49,925 |
| 2024 | \$0 | \$ O | 0.852 | \$0 | \$49,925 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$49,925 |
| 2026 | \$0 | \$O | 0.811 | \$0 | \$49,925 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$49,925 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$49,925 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$49,925 |
| 2030 | \$0 | \$O | 0.734 | \$0 | \$49 , 925 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$49,925 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$49 , 925 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$49,925 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$49,925 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$49,925 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$49 , 925 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$49,925 |
| %NPV | 100.00% | | | | |
| | \$49,925 | | | | |
| Discounting Convention | М-О-Х | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Diagount Data | 2 E 9 | | | | |

Alternative: DOD or Federal Agency

| Year | Renovation for Other DOD or Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|--|----------------------------|--|------------------|------------------------------------|
| 2018 | \$50 , 545 | \$50 , 545 | 0.988 | \$49,925 | \$49 , 925 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$49,925 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$49,925 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$49,925 |
| 2022 | \$ O | \$0 | 0.895 | \$0 | \$49,925 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$49,925 |
| 2024 | \$ O | \$0 | 0.852 | \$0 | \$49,925 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$49,925 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$49,925 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$49,925 |
| 2028 | \$ O | \$0 | 0.772 | \$0 | \$49,925 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$49,925 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$49,925 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$49,925 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$49,925 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$49,925 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$49,925 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$49,925 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$49 , 925 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$49,925 |
| %NPV | 100.00% | | | | |
| | \$49 , 925 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Diagount Data | • 0 E % | | | | |

Alternative: Caretaker Status

| Year | Caretaker Status | Renovation | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|---------------------|------------------------|----------------------------|--|------------------|
| 2018 | \$306 | \$0 | \$306 | 0.988 | \$302 |
| 2019 | \$312 | \$0 | \$312 | 0.964 | \$301 |
| 2020 | \$318 | \$0 | \$318 | 0.94 | \$299 |
| 2021 | \$325 | \$0 | \$325 | 0.917 | \$298 |
| 2022 | \$331 | \$0 | \$331 | 0.895 | \$296 |
| 2023 | \$338 | \$0 | \$338 | 0.873 | \$295 |
| 2024 | \$345 | \$0 | \$345 | 0.852 | \$294 |
| 2025 | \$352 | \$0 | \$352 | 0.831 | \$292 |
| 2026 | \$359 | \$0 | \$359 | 0.811 | \$291 |
| 2027 | \$366 | \$0 | \$366 | 0.791 | \$289 |
| 2028 | \$373 | \$0 | \$373 | 0.772 | \$288 |
| 2029 | \$380 | \$0 | \$380 | 0.753 | \$286 |
| 2030 | \$388 | \$0 | \$388 | 0.734 | \$285 |
| 2031 | \$396 | \$0 | \$396 | 0.717 | \$284 |
| 2032 | \$404 | \$0 | \$404 | 0.699 | \$282 |
| 2033 | \$412 | \$0 | \$412 | 0.682 | \$281 |
| 2034 | \$420 | \$0 | \$420 | 0.665 | \$280 |
| 2035 | \$428 | \$0 | \$428 | 0.649 | \$278 |
| 2036 | \$437 | \$0 | \$437 | 0.633 | \$277 |
| 2037 | \$446 | \$50 , 545 | \$50 , 991 | 0.618 | \$31,505 |
| %NPV | 15.60% | 84.40% | | | |
| | \$5 , 773 | \$31,229 | | | |
| Discounting Convention | М-О-Ү | М-О-Х | | | |
| Inflation Schedule | 2017 General | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Non-Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$302 | |
| 2019 | \$603 | |
| 2020 | \$902 | |
| 2021 | \$1,200 | |
| 2022 | \$1,497 | |
| 2023 | \$1,792 | |
| 2024 | \$2,085 | |
| 2025 | \$2 , 377 | |
| 2026 | \$2,668 | |
| 2027 | \$2 , 957 | |
| 2028 | \$3,245 | |
| 2029 | \$3,531 | |
| 2030 | \$3,816 | |
| 2031 | \$4,100 | |
| 2032 | \$4,382 | |
| 2033 | \$4,663 | |
| 2034 | \$4,943 | |
| 2035 | \$5,221 | |
| 2036 | \$5,498 | |
| 2037 | \$37,002 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*919= \$9,190

- 2. Renovation/Conversion
 - a. Renovation/Conversion

To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 55*919 = \$50,545

3. DOD or Federal Agency

a. Renovation for Other DOD or Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*919 = \$50,545.

Due to the relatively small size of this building (919 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

4. Caretaker Status

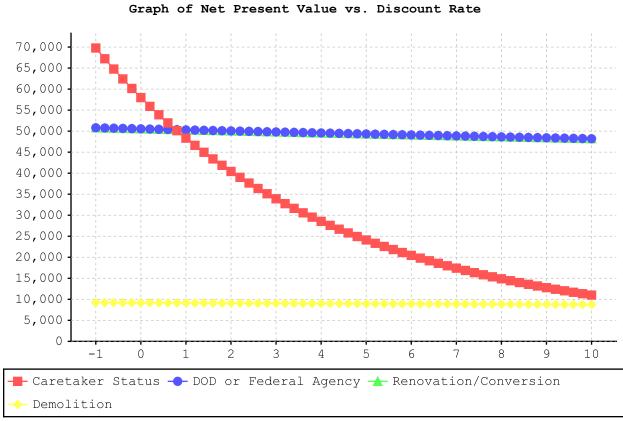
a. Caretaker Status

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred

at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 0.7 %

Discount Rate (%)

Dollars

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| | Net PI | esent valu | les for each Discount Rate | |
|-----------------------|---------|--------------------|--|-------------------|
| Discount Rate | = -1.08 | 5 | Discount Rate = | 0.6% |
| Demolition | | \$ 9,236 | Demolition | \$ 9,163 |
| DOD or Federal Agency | | \$ 50,800 | DOD or Federal Agency | \$ 50,394 |
| Renovation/Conversion | | \$ 50,800 | Renovation/Conversion | \$ 50,394 |
| Caretaker Status | | \$ 69 , 778 | Caretaker Status | \$ 51,960 |
| | | | | |
| Discount Rate | = -0.89 | 5 | Discount Rate = | 0.8% |
| Demolition | | \$ 9 , 227 | Demolition | \$ 9 , 153 |
| DOD or Federal Agency | | \$ 50,748 | Caretaker Status | \$ 50,108 |
| Renovation/Conversion | | \$ 50,748 | DOD or Federal Agency | \$ 50,344 |
| Caretaker Status | | \$ 67,224 | Renovation/Conversion | \$ 50,344 |
| Discount Rate | = -0.6% | 5 | Discount Rate = | 1.0% |
| Demolition | | \$ 9,218 | Demolition | \$ 9,144 |
| DOD or Federal Agency | | \$ 50,697 | Caretaker Status | \$ 48,329 |
| Renovation/Conversion | | \$ 50,697 | DOD or Federal Agency | \$ 50,294 |
| Caretaker Status | | \$ 64,771 | Renovation/Conversion | \$ 50,294 |
| | | + 01/ / / 1 | | 4 00,201 |
| Discount Rate | = -0.4% | 5 | Discount Rate = | 1.2% |
| Demolition | | \$ 9,208 | Demolition | \$ 9,135 |
| DOD or Federal Agency | | \$ 50,646 | Caretaker Status | \$ 46,618 |
| Renovation/Conversion | | \$ 50,646 | DOD or Federal Agency | \$ 50,244 |
| Caretaker Status | | \$ 62,416 | Renovation/Conversion | \$ 50,244 |
| Discount Rate | = -0.2% | 5 | Discount Rate = | 1.4% |
| Demolition | | \$ 9,199 | Demolition | \$ 9,126 |
| DOD or Federal Agency | | \$ 50,596 | Caretaker Status | \$ 44,974 |
| Renovation/Conversion | | \$ 50,596 | DOD or Federal Agency | \$ 50,195 |
| Caretaker Status | | \$ 60,153 | Renovation/Conversion | \$ 50,195 |
| Discount Rate | = -0.09 | 5 | Discount Rate = | 1.6% |
| Demolition | | \$ 9,190 | Demolition | \$ 9,117 |
| DOD or Federal Agency | | \$ 50,545 | Caretaker Status | \$ 43,394 |
| Renovation/Conversion | | | DOD or Federal Agency | \$ 50,145 |
| Caretaker Status | | \$ 57,980 | Renovation/Conversion | \$ 50,145 |
| Discount Rate | = 0.2% | 5 | Discount Rate = | 1.8% |
| Demolition | | \$ 9,181 | Demolition | \$ 9 , 108 |
| DOD or Federal Agency | | \$ 50,495 | Caretaker Status | \$ 41,875 |
| Renovation/Conversion | | \$ 50,495 | DOD or Federal Agency | \$ 50,096 |
| Caretaker Status | | \$ 55,893 | Renovation/Conversion | \$ 50,096 |
| Discount Rate | = 0.48 | - | Discount Rate = | 2.0% |
| | - 0.43 | | | |
| Demolition | | \$ 9,172 | Demolition | \$ 9,099 |
| DOD or Federal Agency | | \$ 50,444 | Caretaker Status | \$ 40,414 |
| Renovation/Conversion | | \$ 50,444 | DOD or Federal Agency Renovation/Conversion | \$ 50,047 |
| Caretaker Status | | \$ 53 , 887 | Removation/Conversion | \$ 50,047 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| | | | les for each discount hate | |
|--|--------|------------------------|--|------------------------|
| Discount Rate | = 2.2% | | Discount Rate = | 3.8% |
| Demolition | | \$ 9,091 | Demolition | \$ 9,020 |
| Caretaker Status | | \$ 39,009 | Caretaker Status | \$ 29,538 |
| DOD or Federal Agency | | \$ 49 , 998 | DOD or Federal Agency | \$ 49 , 611 |
| Renovation/Conversion | | \$ 49,998 | Renovation/Conversion | \$ 49 , 611 |
| | | | | |
| Discount Rate | = 2.4% | | Discount Rate = | 4.0% |
| Demolition | | \$ 9,082 | Demolition | \$ 9,012 |
| Caretaker Status | | \$ 37,658 | Caretaker Status | \$ 28,547 |
| DOD or Federal Agency | | \$ 49,949 | DOD or Federal Agency | \$ 49,563 |
| Renovation/Conversion | | \$ 49,949 | Renovation/Conversion | \$ 49 , 563 |
| | | | | |
| Discount Rate | = 2.6% | | Discount Rate = | 4.2% |
| Demolition | | \$ 9,073 | Demolition | \$ 9,003 |
| Caretaker Status | | \$ 36,359 | Caretaker Status | \$ 27,593 |
| DOD or Federal Agency | | \$ 49,900 | DOD or Federal Agency | \$ 49 , 516 |
| Renovation/Conversion | | \$ 49,900 | Renovation/Conversion | \$ 49,516 |
| | | | | |
| Discount Rate | = 2.8% | | Discount Rate = | 4.4% |
| Demolition | | \$ 9,064 | Demolition | \$ 8,994 |
| Caretaker Status | | \$ 35 , 110 | Caretaker Status | \$ 26 , 674 |
| DOD or Federal Agency | | \$ 49,852 | DOD or Federal Agency | \$ 49,468 |
| Renovation/Conversion | | \$ 49,852 | Renovation/Conversion | \$ 49,468 |
| | | | | |
| Discount Rate | = 3.0% | | Discount Rate = | 4.6% |
| Demolition | | \$ 9 , 055 | Demolition | \$ 8,986 |
| Caretaker Status | | \$ 33,908 | Caretaker Status | \$ 25 , 790 |
| DOD or Federal Agency | | \$ 49,803 | DOD or Federal Agency | \$ 49,421 |
| Renovation/Conversion | | \$ 49,803 | Renovation/Conversion | \$ 49,421 |
| | 2 0 0 | | | 4.00 |
| Discount Rate | = 3.2% | | Discount Rate = | 4.8 % |
| Demolition | | \$ 9,046 | | \$ 8 , 977 |
| Caretaker Status | | | | \$ 24,939 |
| DOD or Federal Agency | | | DOD or Federal Agency | \$ 49,374 |
| Renovation/Conversion | | \$ 49 , 755 | Renovation/Conversion | \$ 49,374 |
| Discount Rate | = 3.4% | | Discount Rate = | 5 0 % |
| | - 3.10 | | | |
| Demolition | | \$ 9,038 | Demolition | \$ 8,969 |
| Caretaker Status | | \$ 31,639 | | \$ 24,119 |
| DOD or Federal Agency | | \$ 49,707 | | \$ 49,327 |
| Renovation/Conversion | | \$ 49,707 | Renovation/Conversion | \$ 49,327 |
| Discount Rate | = 3.6% | | Discount Rate = | 5.2% |
| | 2.30 | | | |
| Demolition | | \$ 9,029 | Demolition | \$ 8,960 |
| Caretaker Status | | \$ 30,568 \$ 49,659 | Caretaker Status | \$ 23,330 \$ 49,280 |
| DOD or Federal Agency Renovation/Conversion | | \$ 49,659 \$ 49,659 | DOD or Federal Agency Renovation/Conversion | \$ 49,280 \$ 49,280 |
| Venovacion/ Conversion | | 7 49,009 | Venovacton/ Conversion | ₽ 49,28U |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 5.4% | | Discount Rate = | 7.0% | |
|---|--|---|---|------|---|
| | | Ċ 0 0E1 | | | Ċ 0 004 |
| Demolition Caretaker Status | | \$ 8,951 \$ 22,570 | Demolition Caretaker Status | | \$ 8,884 \$ 17,411 |
| DOD or Federal Agency | | \$ 49,233 | DOD or Federal Agency | | \$ 48,864 |
| Renovation/Conversion | | \$ 49,233 | Renovation/Conversion | | \$ 48,864 |
| | Ŷ | , 19,233 | | | ↓ 10 , 001 |
| Discount Rate = | 5.6% | | Discount Rate = | 7.2% | |
| Demolition | | \$ 8,943 | Demolition | | \$ 8,876 |
| Caretaker Status | \$ | \$ 21,838 | Caretaker Status | | \$ 16,867 |
| DOD or Federal Agency | | \$ 49 , 187 | DOD or Federal Agency | | \$ 48,818 |
| Renovation/Conversion | \$ | \$ 49 , 187 | Renovation/Conversion | | \$ 48,818 |
| Discount Rate = | 5.8% | | Discount Rate = | 7.4% | |
| Demolition | | \$ 8 , 935 | Demolition | | \$ 8,868 |
| Caretaker Status | \$ | \$ 21 , 132 | Caretaker Status | | \$ 16 , 343 |
| DOD or Federal Agency | \$ | \$ 49 , 140 | DOD or Federal Agency | | \$ 48,773 |
| Renovation/Conversion | \$ | \$ 49,140 | Renovation/Conversion | | \$ 48,773 |
| Discount Rate = | 6.0% | | Discount Rate = | 7.6% | |
| Demolition | | \$ 8,926 | Demolition | | \$ 8,860 |
| Caretaker Status | | \$ 20,453 | Caretaker Status | | \$ 15,837 |
| DOD or Federal Agency | | \$ 49 , 094 | DOD or Federal Agency | | \$ 48,727 |
| Renovation/Conversion | \$ | \$ 49 , 094 | Renovation/Conversion | | \$ 48,727 |
| Discount Rate = | 6.2% | | Discount Rate = | 7.8% | |
| | | | | | |
| Demolition | | \$ 8,918 | Demolition | | \$ 8,851 |
| Demolition Caretaker Status | | \$ 8,918 \$ 19,799 | Demolition Caretaker Status | | \$ 8,851 \$ 15,350 |
| Caretaker Status | \$ | \$ 19 , 799 | Caretaker Status | | \$ 15,350 |
| | \$ \$ | | | | |
| Caretaker Status DOD or Federal Agency | \$ \$ \$ | \$ 19,799 \$ 49,047 | Caretaker Status DOD or Federal Agency | 8.0% | \$ 15,350 \$ 48,682 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ \$ 6.4% | \$ 19,799 \$ 49,047 \$ 49,047 | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = | 8.0% | \$ 15,350 \$ 48,682 \$ 48,682 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion | \$ \$ 6.4% | \$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 8,909 | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 8.0% | \$ 15,350 \$ 48,682 \$ 48,682 \$ 8,843 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ \$ 6.4% \$ | \$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 8,909 \$ 19,168 | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 8.0% | \$ 15,350 \$ 48,682 \$ 48,682 \$ 48,682 \$ 8,843 \$ 14,880 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ \$ 6.4% \$ \$ | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 8,909 \$ 19,168 \$ 49,001</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 8.0% | \$ 15,350 \$ 48,682 \$ 48,682 \$ 8,843 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency | \$ \$ 6.4% \$ \$ \$ | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 8,909 \$ 19,168 \$ 49,001</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency | | \$ 15,350 \$ 48,682 \$ 48,682 \$ 8,843 \$ 14,880 \$ 48,637 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion | \$ 6.4% \$ \$ 6.6% | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 19,168 \$ 19,168 \$ 49,001 \$ 49,001</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = | | \$ 15,350 \$ 48,682 \$ 48,682 \$ 8,843 \$ 14,880 \$ 48,637 \$ 48,637 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 6.4% \$ 6.6% | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 8,909 \$ 19,168 \$ 49,001</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion | | \$ 15,350 \$ 48,682 \$ 48,682 \$ 8,843 \$ 14,880 \$ 48,637 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 6.4% \$ 6.6% \$ | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 8,909 \$ 19,168 \$ 49,001 \$ 49,001 \$ 8,901</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | | \$ 15,350 \$ 48,682 \$ 48,682 \$ 8,843 \$ 14,880 \$ 48,637 \$ 48,637 \$ 48,637 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 6.4% \$ 6.6% \$ \$ | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 19,168 \$ 49,001 \$ 49,001 \$ 49,001 \$ 18,561</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | | \$ 15,350 \$ 48,682 \$ 48,682 \$ 8,843 \$ 14,880 \$ 48,637 \$ 48,637 \$ 48,637 \$ 48,637 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency | \$ 6.4% \$ 6.6% \$ \$ \$ | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 19,168 \$ 49,001 \$ 49,001 \$ 49,001 \$ 18,561 \$ 18,561 \$ 48,955</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency | 8.2% | \$ 15,350 \$ 48,682 \$ 48,682 \$ 8,843 \$ 14,880 \$ 48,637 \$ 48,637 \$ 48,637 \$ 14,427 \$ 14,427 \$ 48,592 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion | \$ 6.4% \$ 6.6% \$ \$ 6.8% | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 19,168 \$ 49,001 \$ 49,001 \$ 49,001 \$ 18,561 \$ 48,955 \$ 48,955</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion | 8.2% | \$ 15,350 \$ 48,682 \$ 48,682 \$ 48,682 \$ 14,880 \$ 48,637 \$ 48,637 \$ 48,637 \$ 48,637 \$ 14,427 \$ 48,592 \$ 48,592 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 6.4% \$ 6.6% \$ \$ 6.8% | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 19,168 \$ 49,001 \$ 49,001 \$ 49,001 \$ 18,561 \$ 18,561 \$ 48,955</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = | 8.2% | \$ 15,350 \$ 48,682 \$ 48,682 \$ 8,843 \$ 14,880 \$ 48,637 \$ 48,637 \$ 48,637 \$ 14,427 \$ 14,427 \$ 48,592 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 6.4% \$ 6.6% \$ 6.8% \$ \$ | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 19,168 \$ 49,001 \$ 19,168 \$ 49,001 \$ 18,561 \$ 18,561 \$ 48,955 \$ 48,955 \$ 48,955 \$ \$ 8,893</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 8.2% | \$ 15,350 \$ 48,682 \$ 48,682 \$ 48,682 \$ 14,880 \$ 48,637 \$ 48,637 \$ 48,637 \$ 48,637 \$ 48,637 \$ 48,637 \$ 48,592 \$ 48,592 \$ 48,592 \$ 48,592 |
| Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 6.4% \$ 6.6% \$ 6.8% \$ \$ | <pre>\$ 19,799 \$ 49,047 \$ 49,047 \$ 49,047 \$ 49,047 \$ 19,168 \$ 49,001 \$ 49,001 \$ 49,001 \$ 18,561 \$ 18,561 \$ 48,955 \$ 48,955 \$ 48,955 \$ 5 8,893 \$ 17,975</pre> | Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 8.2% | \$ 15,350 \$ 48,682 \$ 48,682 \$ 48,682 \$ 14,880 \$ 48,637 \$ 48,637 \$ 48,637 \$ 48,637 \$ 48,637 \$ 48,592 \$ 48,592 \$ 48,592 \$ 48,592 \$ 48,592 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount | Rate | = | 8.6% | |
|--|------|---|-------|--|
| Demolition | | | | \$ 8,819 |
| Caretaker Status | | | | \$ 13,569 |
| | | | | \$ 48,502 |
| DOD or Federal Agency | | | | • |
| Renovation/Conversion | | | | \$ 48,502 |
| Discount | Pato | _ | 8 8 9 | |
| Discount | Nate | _ | 0.0% | |
| Demolition | | | | \$ 8,811 |
| Caretaker Status | | | | \$ 13 , 162 |
| DOD or Federal Agency | | | | \$ 48,458 |
| Renovation/Conversion | | | | \$ 48,458 |
| | | | | |
| Discount | Rate | = | 9.0% | |
| Demolition | | | | \$ 8,802 |
| Caretaker Status | | | | \$ 12 , 770 |
| DOD or Federal Agency | | | | \$ 48,413 |
| Renovation/Conversion | | | | \$ 48,413 |
| | | | | , . |
| Discount | Rate | = | 9.2% | |
| Demolition | | | | \$ 8 , 794 |
| Caretaker Status | | | | \$ 12,391 |
| | | | | |
| DOD or Federal Agency | | | | \$ 48,369 |
| Renovation/Conversion | | | | \$ 48,369 |
| | | | | |
| Discount | Rate | = | 9.4% | |
| | Rate | = | 9.4% | \$ 9 786 |
| Demolition | Rate | = | 9.4% | \$ 8,786 |
| Demolition Caretaker Status | Rate | = | 9.4% | \$ 12,026 |
| Demolition Caretaker Status DOD or Federal Agency | Rate | = | 9.4% | \$ 12,026 \$ 48,325 |
| Demolition Caretaker Status | Rate | = | 9.4% | \$ 12,026 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion | | | | \$ 12,026 \$ 48,325 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount | | | | \$ 12,026 \$ 48,325 \$ 48,325 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition | | | | \$ 12,026 \$ 48,325 \$ 48,325 \$ 8,778 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status | | | | \$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 8,778 \$ 11,674 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency | | | | \$ 12,026 \$ 48,325 \$ 48,325 \$ 8,778 \$ 11,674 \$ 48,281 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status | | | | \$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 8,778 \$ 11,674 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency | Rate | н | 9.6% | \$ 12,026 \$ 48,325 \$ 48,325 \$ 8,778 \$ 11,674 \$ 48,281 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount | Rate | н | 9.6% | \$ 12,026 \$ 48,325 \$ 48,325 \$ 8,778 \$ 11,674 \$ 48,281 \$ 48,281 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition | Rate | н | 9.6% | \$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 11,674 \$ 11,674 \$ 48,281 \$ 48,281 \$ 48,281 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status | Rate | н | 9.6% | \$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 11,674 \$ 11,674 \$ 48,281 \$ 48,281 \$ 48,281 \$ 48,281 \$ 11,334 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency | Rate | н | 9.6% | \$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 11,674 \$ 11,674 \$ 48,281 \$ 48,281 \$ 48,281 \$ 11,334 \$ 48,237 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status | Rate | н | 9.6% | \$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 11,674 \$ 11,674 \$ 48,281 \$ 48,281 \$ 48,281 \$ 48,281 \$ 11,334 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency | Rate | _ | 9.6% | \$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 11,674 \$ 11,674 \$ 48,281 \$ 48,281 \$ 48,281 \$ 11,334 \$ 48,237 |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount | Rate | _ | 9.6% | <pre>\$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 11,674 \$ 48,281 \$ 48,281 \$ 48,281 \$ 48,281 \$ 11,334 \$ 48,237 \$ 48,237</pre> |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Discount | Rate | _ | 9.6% | <pre>\$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 11,674 \$ 48,281 \$ 48,281 \$ 48,281 \$ 48,281 \$ 11,334 \$ 48,237 \$ 48,237 \$ 48,237</pre> |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status | Rate | _ | 9.6% | <pre>\$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 11,674 \$ 48,281 \$ 48,281 \$ 48,281 \$ 48,281 \$ 11,334 \$ 48,237 \$ 48,237 \$ 48,237 \$ 48,237</pre> |
| Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status DOD or Federal Agency Renovation/Conversion Discount Discount | Rate | _ | 9.6% | <pre>\$ 12,026 \$ 48,325 \$ 48,325 \$ 48,325 \$ 11,674 \$ 48,281 \$ 48,281 \$ 48,281 \$ 48,281 \$ 11,334 \$ 48,237 \$ 48,237 \$ 48,237</pre> |

Date Generated: 12 June 2018 Time Generated: 16.36.04 Version: ECONPACK 4.0.32

Building 328 Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|--|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 328 |
| | that meets the EXORD requirement to reduce excess square footage. |

Background:

Building 328 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be 10/sf - 7,495*10 = 74,950. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 17120, General Instruction Building. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 7,495*55 = \$415,225. However, there currently is an extreme excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative This is a viable alternative.

Other DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*7,495 = \$412,225. Due to the unique design of this building - a sloped and terraced floor, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*7,495 = \$2,473/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

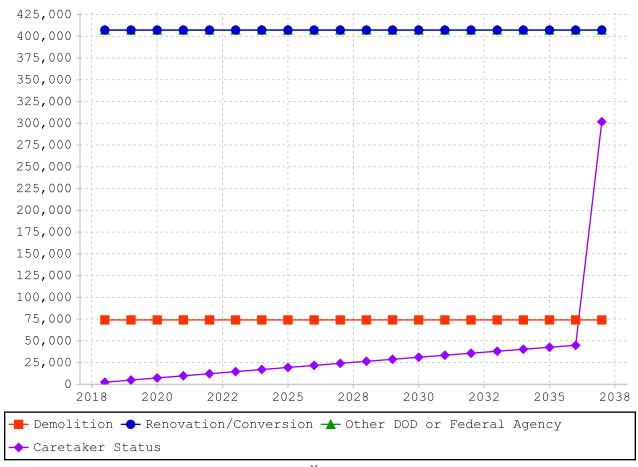
Economic Indicators:

| Alternative | NPV | |
|-----------------------------|---------------------|--|
| Demolition | \$ 74,030 | |
| Renovation/Conversion | \$ 407 , 167 | |
| Other DOD or Federal Agency | \$ 407 , 167 | |
| Caretaker Status | \$ 301,812 | |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its Current configuration or converted into another category code. Therefore, demolition of Building 328 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
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| Organization | :Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

Year

Dollars

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$74 , 950 | \$74 , 950 | 0.988 | \$74,030 | \$74,030 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$74,030 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$74,030 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$74,030 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$74,030 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$74,030 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$74,030 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$74,030 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$74,030 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$74,030 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$74,030 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$74,030 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$74,030 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$74,030 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$74,030 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$74,030 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$74,030 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$74,030 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$74,030 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$74,030 |
| %NPV | 100.00% | | | | |
| | \$74 , 030 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/Con version | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$412,225 | \$412,225 | 0.988 | \$407,167 | \$407 , 167 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$407,167 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$407,167 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$407,167 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$407,167 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$407,167 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$407,167 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$407,167 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$407,167 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$407,167 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$407,167 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$407,167 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$407,167 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$407,167 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$407,167 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$407,167 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$407,167 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$407,167 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$407,167 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$407,167 |
| %NPV | 100.00% | | | | |
| | \$407,167 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| Discount Data | • 0 E % | | | | |

Alternative: Other DOD or Federal Agency

| Year | Renovation for other DOD or Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|--|----------------------------|--|------------------|------------------------------------|
| 2018 | \$412,225 | \$412,225 | 0.988 | \$407,167 | \$407 , 167 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$407,167 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$407,167 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$407,167 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$407,167 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$407,167 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$407,167 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$407,167 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$407,167 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$407,167 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$407,167 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$407,167 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$407,167 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$407,167 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$407,167 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$407,167 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$407,167 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$407,167 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$407,167 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$407,167 |
| %NPV | 100.00% | | | | |
| | \$407,167 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | | | | | |

Alternative: Caretaker Status

| Year | Caretaker Status Maintenance | Construction | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|------------------------------------|------------------------|----------------------------|--|------------------|
| 2018 | \$2,498 | \$0 | \$2,498 | 0.988 | \$2,467 |
| 2019 | \$2,548 | \$0 | \$2,548 | 0.964 | \$2,455 |
| 2020 | \$2,599 | \$0 | \$2 , 599 | 0.94 | \$2,443 |
| 2021 | \$2,650 | \$0 | \$2,650 | 0.917 | \$2,431 |
| 2022 | \$2 , 703 | \$0 | \$2 , 703 | 0.895 | \$2,419 |
| 2023 | \$2,758 | \$0 | \$2,758 | 0.873 | \$2,407 |
| 2024 | \$2,813 | \$0 | \$2,813 | 0.852 | \$2,396 |
| 2025 | \$2,869 | \$0 | \$2,869 | 0.831 | \$2,384 |
| 2026 | \$2 , 926 | \$0 | \$2 , 926 | 0.811 | \$2 , 372 |
| 2027 | \$2,985 | \$0 | \$2,985 | 0.791 | \$2,361 |
| 2028 | \$3,045 | \$0 | \$3,045 | 0.772 | \$2,349 |
| 2029 | \$3,105 | \$0 | \$3,105 | 0.753 | \$2,338 |
| 2030 | \$3,168 | \$0 | \$3,168 | 0.734 | \$2,326 |
| 2031 | \$3,231 | \$0 | \$3,231 | 0.717 | \$2,315 |
| 2032 | \$3,296 | \$0 | \$3,296 | 0.699 | \$2,304 |
| 2033 | \$3,361 | \$0 | \$3,361 | 0.682 | \$2,292 |
| 2034 | \$3,429 | \$0 | \$3,429 | 0.665 | \$2,281 |
| 2035 | \$3,497 | \$0 | \$3,497 | 0.649 | \$2,270 |
| 2036 | \$3 , 567 | \$0 | \$3 , 567 | 0.633 | \$2,259 |
| 2037 | \$3,639 | \$412,225 | \$415,864 | 0.618 | \$256,942 |
| %NPV | 15.61% | 84.39% | | | |
| | \$47,118 | \$254,694 | | | |
| Discounting Convention | М-О-Х | М-О-У | | | |
| Inflation Schedule | 2017 General | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Non-Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$2,467 | |
| 2019 | \$4,922 | |
| 2020 | \$7,365 | |
| 2021 | \$9,796 | |
| 2022 | \$12,215 | |
| 2023 | \$14,622 | |
| 2024 | \$17,018 | |
| 2025 | \$19,402 | |
| 2026 | \$21,774 | |
| 2027 | \$24,135 | |
| 2028 | \$26,484 | |
| 2029 | \$28,822 | |
| 2030 | \$31,148 | |
| 2031 | \$33,463 | |
| 2032 | \$35 , 767 | |
| 2033 | \$38,060 | |
| 2034 | \$40,341 | |
| 2035 | \$42,611 | |
| 2036 | \$44,870 | |
| 2037 | \$301,812 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*7495= \$74,950

- 2. Renovation/Conversion
 - a. Renovation/Conversion

To be made practical, this building would require total renovation to include repairing

or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*7,495 = \$412,225.

3. Other DOD or Federal Agency

a. Renovation for other DOD or Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*7,495 = \$412,225.

Due to the unique design of this building – a sloped and terraced floor, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

4. Caretaker Status

a. Caretaker Status Maintenance

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Construction

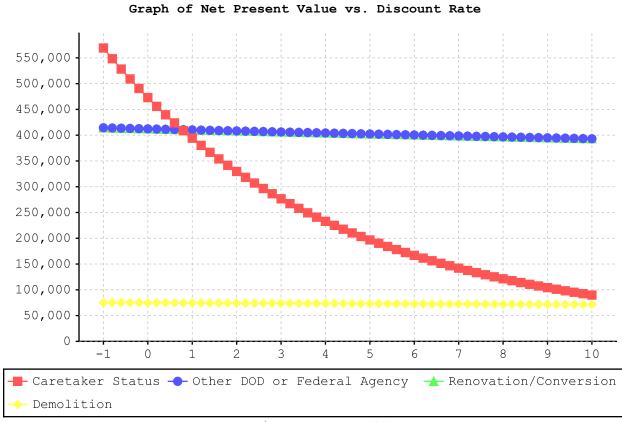
This alternative maintains the facility in its current condition to be used later in its

current category code or after conversion into a different category code. A facility in

caretaker status is maintained to the point of preventing problems from developing or to

keep existing problems from worsening. The cost is based on an annual, per square foot expense of 0.33 or $0.33^{7495} = 2473/yr$. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly

likely at a much higher cost.



NPV rankings change at the following discount rates: 0.7 %

Discount Rate (%)

Dollars

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| | et riesent varu | es for each discount hate | |
|-----------------------------|---------------------|-----------------------------|---------------------|
| Discount Rate = | -1.0% | Discount Rate = | 0.6% |
| Demolition | \$75 , 328 | Demolition | \$ 74 , 726 |
| Other DOD or Federal Agency | \$ 414,302 | Other DOD or Federal Agency | \$ 410,994 |
| Renovation/Conversion | \$ 414,302 | Renovation/Conversion | \$ 410,994 |
| Caretaker Status | \$ 569,132 | Caretaker Status | \$ 423,809 |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Demolition | \$ 75,252 | Demolition | \$ 74,652 |
| Other DOD or Federal Agency | \$ 413,884 | Caretaker Status | \$ 408,705 |
| Renovation/Conversion | \$ 413,884 | Other DOD or Federal Agency | \$ 410,586 |
| Caretaker Status | \$ 548,301 | Renovation/Conversion | \$ 410,586 |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Demolition | \$ 75 , 176 | Demolition | \$ 74 , 578 |
| Other DOD or Federal Agency | \$ 413,467 | Caretaker Status | \$ 394,191 |
| Renovation/Conversion | \$ 413 , 467 | Other DOD or Federal Agency | \$ 410 , 179 |
| Caretaker Status | \$ 528,297 | Renovation/Conversion | \$ 410,179 |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Demolition | \$ 75 , 100 | Demolition | \$ 74 , 504 |
| Other DOD or Federal Agency | \$ 413,052 | Caretaker Status | \$ 380,241 |
| Renovation/Conversion | \$ 413,052 | Other DOD or Federal Agency | \$ 409,774 |
| Caretaker Status | \$ 509,086 | Renovation/Conversion | \$ 409,774 |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Demolition | \$ 75,025 | Demolition | \$ 74,431 |
| Other DOD or Federal Agency | \$ 412,638 | Caretaker Status | \$ 366,832 |
| Renovation/Conversion | \$ 412,638 | Other DOD or Federal Agency | \$ 409,369 |
| Caretaker Status | \$ 490,634 | Renovation/Conversion | \$ 409,369 |
| Discount Rate = | -0.0% | Discount Rate = | 1.6% |
| Demolition | \$ 74 , 950 | Demolition | \$ 74 , 358 |
| Other DOD or Federal Agency | \$ 412,225 | Caretaker Status | \$ 353,943 |
| Renovation/Conversion | | Other DOD or Federal Agency | \$ 408,966 |
| Caretaker Status | \$ 472,910 | Renovation/Conversion | \$ 408,966 |
| Discount Rate = | 0.2% | Discount Rate = | 1.8% |
| Demolition | \$ 74,875 | Demolition | \$ 74 , 284 |
| Other DOD or Federal Agency | \$ 411,813 | Caretaker Status | \$ 341,551 |
| Renovation/Conversion | \$ 411,813 | Other DOD or Federal Agency | \$ 408,564 |
| Caretaker Status | \$ 455,884 | Renovation/Conversion | \$ 408,564 |
| Discount Rate = | 0.4% | Discount Rate = | 2.0% |
| Demolition | \$ 74,801 | Demolition | \$ 74,212 |
| Other DOD or Federal Agency | \$ 411,403 | Caretaker Status | \$ 329,636 |
| Renovation/Conversion | \$ 411,403 | Other DOD or Federal Agency | \$ 408,164 |
| Caretaker Status | \$ 439,526 | Renovation/Conversion | \$ 408,164 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| | 2.2% | Discount Rate = | 3.8% |
|---|--|---|---|
| Demolition | \$ 74,139 | Demolition | \$ 73,565 |
| Caretaker Status | \$ 318,179 | Caretaker Status | \$ 240,932 |
| Other DOD or Federal Agency | \$ 407,764 | Other DOD or Federal Agency | \$ 404,609 |
| Renovation/Conversion | \$ 407,764 | Renovation/Conversion | \$ 404,609 |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Demolition | \$ 74,066 | Demolition | \$ 73 , 495 |
| Caretaker Status | \$ 307,162 | Caretaker Status | \$ 232,846 |
| Other DOD or Federal Agency | \$ 407,366 | Other DOD or Federal Agency | \$ 404,220 |
| Renovation/Conversion | \$ 407,366 | Renovation/Conversion | \$ 404,220 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Demolition | \$ 73,994 | Demolition | \$ 73,424 |
| Caretaker Status | \$ 296,566 | Caretaker Status | \$ 225,064 |
| Other DOD or Federal Agency | \$ 406,968 | Other DOD or Federal Agency | \$ 403,832 |
| Renovation/Conversion | \$ 406,968 | Renovation/Conversion | \$ 403,832 |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Demolition | \$ 73 , 922 | Demolition | \$ 73 , 354 |
| Caretaker Status | \$ 286,374 | Caretaker Status | \$ 217 , 573 |
| Other DOD or Federal Agency | \$ 406,572 | Other DOD or Federal Agency | \$ 403,445 |
| Renovation/Conversion | \$ 406,572 | Renovation/Conversion | \$ 403,445 |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| | | | |
| Demolition | \$ 73 , 850 | Demolition | \$ 73 , 283 |
| Demolition Caretaker Status | \$ 73,850 \$ 276,571 | Demolition Caretaker Status | \$ 73,283 \$ 210,361 |
| | \$ 276 , 571 | | \$ 210,361 \$ 403,059 |
| Caretaker Status | \$ 276 , 571 | Caretaker Status | \$ 210,361 |
| Caretaker Status Other DOD or Federal Agency | \$ 276,571 \$ 406,177 \$ 406,177 | Caretaker Status Other DOD or Federal Agency | \$ 210,361 \$ 403,059 \$ 403,059 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 276,571 \$ 406,177 \$ 406,177 3.2% | Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 210,361 \$ 403,059 \$ 403,059 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 \$ 402,674 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 \$ 405,784 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 \$ 402,674 \$ 402,674 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 \$ 405,784 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 \$ 402,674 \$ 402,674 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 \$ 405,784 3.4% \$ 73,707 \$ 258,065 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 \$ 402,674 \$ 402,674 \$ 402,674 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 \$ 405,784 \$ 405,784 3.4% \$ 73,707 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 \$ 402,674 \$ 402,674 \$ 402,674 \$ 5.0% \$ 73,144 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 \$ 405,784 3.4% \$ 73,707 \$ 258,065 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 \$ 402,674 \$ 402,674 \$ 402,674 \$ 5.0% \$ 73,144 \$ 196,733 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 \$ 405,784 3.4% \$ 73,707 \$ 258,065 \$ 405,391 \$ 405,391 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 \$ 402,674 \$ 402,674 \$ 402,674 \$ 402,674 \$ 402,290 \$ 402,290 \$ 402,290 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 \$ 405,784 3.4% \$ 73,707 \$ 258,065 \$ 405,391 \$ 405,391 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 \$ 402,674 \$ 402,674 \$ 402,674 \$ 402,674 \$ 402,290 \$ 402,290 \$ 402,290 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 \$ 405,784 \$ 405,784 3.4% \$ 73,707 \$ 258,065 \$ 405,391 \$ 405,391 \$ 405,391 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 \$ 402,674 \$ 402,674 \$ 402,674 5.0% \$ 73,144 \$ 196,733 \$ 402,290 \$ 402,290 \$ 402,290 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 276,571 \$ 406,177 \$ 406,177 3.2% \$ 73,779 \$ 267,139 \$ 405,784 \$ 405,784 \$ 405,784 3.4% \$ 73,707 \$ 258,065 \$ 405,391 \$ 405,391 \$ 405,391 \$ 405,391 \$ 405,391 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 210,361 \$ 403,059 \$ 403,059 4.8% \$ 73,213 \$ 203,418 \$ 402,674 \$ 402,674 \$ 402,674 \$ 402,674 \$ 402,290 \$ 402,074 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|---|---|---|---|
| Demolition | \$ 73,005 | Demolition | \$ 72,457 |
| Caretaker Status | \$ 184,096 | Caretaker Status | \$ 142,022 |
| Other DOD or Federal Agency | \$ 401,526 | Other DOD or Federal Agency | \$ 398,513 |
| Renovation/Conversion | \$ 401,526 | Renovation/Conversion | \$ 398,513 |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Demolition | \$ 72,936 | Demolition | \$ 72,389 |
| Caretaker Status | \$ 178,126 | Caretaker Status | \$ 137,586 |
| Other DOD or Federal Agency | \$ 401,146 | Other DOD or Federal Agency | \$ 398,141 |
| Renovation/Conversion | \$ 401,146 | Renovation/Conversion | \$ 398,141 |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Demolition | \$ 72 , 867 | Demolition | \$ 72 , 322 |
| Caretaker Status | \$ 172 , 374 | Caretaker Status | \$ 133,309 |
| Other DOD or Federal Agency | \$ 400,767 | Other DOD or Federal Agency | \$ 397 , 770 |
| Renovation/Conversion | \$ 400,767 | Renovation/Conversion | \$ 397,770 |
| Discount Rate = | 6.0% | Discount Rate = | 7.6% |
| Demolition | \$ 72 , 798 | Demolition | \$ 72,255 |
| Caretaker Status | \$ 166,834 | Caretaker Status | \$ 129 , 187 |
| Other DOD or Federal Agency | \$ 400,388 | Other DOD or Federal Agency | \$ 397,400 |
| Renovation/Conversion | \$ 400,388 | Renovation/Conversion | \$ 397,400 |
| | | | |
| Discount Rate = | 6.2% | Discount Rate = | 7.8% |
| Discount Rate = | 6.2% \$ 72,729 | Discount Rate = | 7.8% \$ 72,188 |
| Demolition Caretaker Status | \$ 72,729 \$ 161,497 | Demolition Caretaker Status | \$ 72,188 \$ 125,213 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,729 \$ 161,497 \$ 400,011 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,188 \$ 125,213 \$ 397,031 |
| Demolition Caretaker Status | \$ 72,729 \$ 161,497 | Demolition Caretaker Status | \$ 72,188 \$ 125,213 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 \$ 396,664 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 \$ 399,635 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 \$ 396,664 \$ 396,664 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 \$ 399,635 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 \$ 396,664 \$ 396,664 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 \$ 399,635 \$ 399,635 \$ 399,635 \$ 399,635 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 \$ 396,664 \$ 396,664 \$ 396,664 8.2% \$ 72,054 \$ 117,684 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 \$ 399,635 6.6% \$ 72,593 \$ 151,399 \$ 399,260 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 \$ 396,664 \$ 396,664 8.2% \$ 72,054 \$ 117,684 \$ 396,297 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 \$ 399,635 \$ 399,635 \$ 399,635 \$ 399,635 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 \$ 396,664 \$ 396,664 \$ 396,664 8.2% \$ 72,054 \$ 117,684 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 \$ 399,635 6.6% \$ 72,593 \$ 151,399 \$ 399,260 \$ 399,260 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 \$ 396,664 \$ 396,664 8.2% \$ 72,054 \$ 117,684 \$ 396,297 \$ 396,297 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 \$ 399,635 6.6% \$ 72,593 \$ 151,399 \$ 399,260 \$ 399,260 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 \$ 396,664 \$ 396,664 8.2% \$ 72,054 \$ 117,684 \$ 396,297 \$ 396,297 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 \$ 399,635 6.6% \$ 72,593 \$ 151,399 \$ 399,260 \$ 399,260 \$ 399,260 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 \$ 396,664 \$ 396,664 8.2% \$ 72,054 \$ 117,684 \$ 396,297 \$ 396,297 \$ 396,297 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 72,729 \$ 161,497 \$ 400,011 \$ 400,011 6.4% \$ 72,661 \$ 156,354 \$ 399,635 \$ 399,635 6.6% \$ 72,593 \$ 151,399 \$ 399,260 \$ 399,260 \$ 399,260 \$ 399,260 \$ 399,260 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 72,188 \$ 125,213 \$ 397,031 \$ 397,031 8.0% \$ 72,121 \$ 121,380 \$ 396,664 \$ 396,664 8.2% \$ 72,054 \$ 117,684 \$ 396,297 \$ 396,297 \$ 396,297 \$ 396,297 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount | Rate = | 8.6% |
|----------|--------|------|
| | | |

| Discount Rate = | 8.6% |
|---|---|
| Demolition | \$ 71,921 |
| Caretaker Status | \$ 110,682 |
| Other DOD or Federal Agency | \$ 395,566 |
| Renovation/Conversion | \$ 395,566 |
| | 4 000,000 |
| Discount Rate = | 8.8% |
| Demolition | \$ 71,855 |
| Caretaker Status | \$ 107,366 |
| Other DOD or Federal Agency | \$ 395,203 |
| Renovation/Conversion | |
| Renovation/Conversion | \$ 395,203 |
| Discount Rate = | 9.0% |
| Demolition | \$ 71,789 |
| Caretaker Status | \$ 104,167 |
| Other DOD or Federal Agency | \$ 394,840 |
| | |
| Renovation/Conversion | \$ 394,840 |
| Discount Rate = | 9.2% |
| Demolition | \$ 71 , 723 |
| Caretaker Status | \$ 101,080 |
| Other DOD or Federal Agency | \$ 394,478 |
| <u> </u> | |
| Renovation/Conversion | \$ 394,478 |
| | |
| Discount Rate = | 9.4% |
| | |
| Demolition | \$ 71 , 658 |
| Demolition Caretaker Status | \$ 71,658 \$ 98,102 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 71,658 \$ 98,102 \$ 394,117 |
| Demolition Caretaker Status | \$ 71,658 \$ 98,102 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 \$ 393,758 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 \$ 393,758 \$ 393,758 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 \$ 393,758 \$ 393,758 \$ 393,758 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 9.8% \$ 71,527 \$ 92,454 \$ 393,399 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 \$ 393,758 \$ 393,758 \$ 393,758 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 9.8% \$ 71,527 \$ 92,454 \$ 393,399 \$ 393,399 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 71,658 \$ 98,102 \$ 394,117 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 9.8% \$ 71,527 \$ 92,454 \$ 393,399 \$ 393,399 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 71,658 \$ 98,102 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 9.8% \$ 71,527 \$ 92,454 \$ 393,399 \$ 393,399 \$ 393,399 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 71,658 \$ 98,102 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 9.8% \$ 71,527 \$ 92,454 \$ 393,399 \$ 393,399 \$ 393,399 10.0% \$ 71,462 \$ 89,777 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 71,658 \$ 98,102 \$ 394,117 9.6% \$ 71,592 \$ 95,228 \$ 393,758 \$ 393,758 9.8% \$ 71,527 \$ 92,454 \$ 393,399 \$ 393,399 \$ 393,399 |

Date Generated: 12 June 2018 Time Generated: 16.36.46 Version: ECONPACK 4.0.32

Building 330 Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|---|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 330 |
| | that meets the EXORD requirement to reduce excess square footage. |

Background:

Building 330 has been identified as a facility for disposal per HQDA EXORD 164-15. HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 2,000*10 = \$20,000. This is a viable alternative. This is a viable alternative. Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 21925, Engineering Maintenance Facility. To be made practical, this building would require extensive and total repair and renovation to include repairing or replacing roofing,

flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$75/sf or 2,000*55 = \$150,00. However, there currently is not an RPLANS allowance for this category code and converting into this category would violate the intent of the Exord. This is a viable alternative This is a viable alternative.

Other DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$75*2,000 = \$150,000. Due to the relatively small size of this building (2,000 sf), location - inside the DPW Maintenance fence line, lack of parking, and the extensive cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable. This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*2,000 = \$660/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

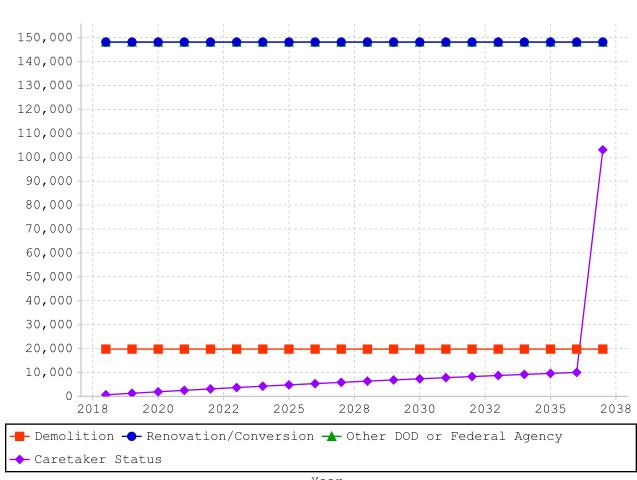
Economic Indicators:

| Alternative | NPV |
|-----------------------------|--------------------|
| Demolition | \$ 19 , 755 |
| Renovation/Conversion | \$ 148,159 |
| Other DOD or Federal Agency | \$ 148,159 |
| Caretaker Status | \$ 103,094 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 330 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | : Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

Year

Dollars

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|-------------------|------------------------------------|
| 2018 | \$20,000 | \$20,000 | 0.988 | \$19 , 755 | \$19 , 755 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$19 , 755 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$19,755 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$19,755 |
| 2022 | \$ O | \$0 | 0.895 | \$0 | \$19,755 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$19,755 |
| 2024 | \$ O | \$0 | 0.852 | \$0 | \$19 , 755 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$19,755 |
| 2026 | \$ O | \$0 | 0.811 | \$0 | \$19 , 755 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$19,755 |
| 2028 | \$ O | \$0 | 0.772 | \$0 | \$19 , 755 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$19,755 |
| 2030 | \$ O | \$0 | 0.734 | \$0 | \$19 , 755 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$19,755 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$19 , 755 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$19,755 |
| 2034 | \$ O | \$0 | 0.665 | \$0 | \$19 , 755 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$19,755 |
| 2036 | \$ O | \$0 | 0.633 | \$0 | \$19 , 755 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$19,755 |
| %NPV | 100.00% | | | | |
| | \$19 , 755 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | . О Г 0 | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$150,000 | \$150,000 | 0.988 | \$148,159 | \$148 , 159 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$148,159 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$148 , 159 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$148,159 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$148,159 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$148,159 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$148,159 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$148,159 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$148,159 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$148,159 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$148,159 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$148,159 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$148,159 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$148,159 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$148 , 159 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$148,159 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$148,159 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$148,159 |
| 2036 | \$0 | \$0 | 0.633 | \$O | \$148,159 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$148,159 |
| %NPV | 100.00% | | | | |
| | \$148,159 | | | | |
| Discounting Convention | М-О-Х | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Diagount Data | • 0 E % | | | | |

Alternative: Other DOD or Federal Agency

| Year | Other DOD or Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$150 , 000 | \$150,000 | 0.988 | \$148,159 | \$148,159 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$148,159 |
| 2020 | \$ O | \$0 | 0.94 | \$0 | \$148,159 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$148,159 |
| 2022 | \$ O | \$0 | 0.895 | \$0 | \$148,159 |
| 2023 | \$O | \$0 | 0.873 | \$0 | \$148,159 |
| 2024 | \$ O | \$0 | 0.852 | \$0 | \$148,159 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$148,159 |
| 2026 | \$ O | \$0 | 0.811 | \$0 | \$148,159 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$148,159 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$148,159 |
| 2029 | \$O | \$0 | 0.753 | \$0 | \$148,159 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$148,159 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$148,159 |
| 2032 | \$ O | \$0 | 0.699 | \$0 | \$148,159 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$148,159 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$148,159 |
| 2035 | \$O | \$0 | 0.649 | \$0 | \$148,159 |
| 2036 | \$ O | \$0 | 0.633 | \$0 | \$148,159 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$148,159 |
| %NPV | 100.00% | | | | |
| | \$148 , 159 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| D'anna Data | | | | | |

Alternative: Caretaker Status

| Year | Caretaker F Status Maintenance | Renovation/Con version | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|--------------------------------------|---------------------------|----------------------------|--|------------------|
| 2018 | \$660 | \$0 | \$660 | 0.988 | \$652 |
| 2019 | \$660 | \$0 | \$660 | 0.964 | \$636 |
| 2020 | \$660 | \$0 | \$660 | 0.94 | \$620 |
| 2021 | \$660 | \$0 | \$660 | 0.917 | \$605 |
| 2022 | \$660 | \$0 | \$660 | 0.895 | \$591 |
| 2023 | \$660 | \$0 | \$660 | 0.873 | \$576 |
| 2024 | \$660 | \$0 | \$660 | 0.852 | \$562 |
| 2025 | \$660 | \$0 | \$660 | 0.831 | \$548 |
| 2026 | \$660 | \$0 | \$660 | 0.811 | \$535 |
| 2027 | \$660 | \$0 | \$660 | 0.791 | \$522 |
| 2028 | \$660 | \$0 | \$660 | 0.772 | \$509 |
| 2029 | \$660 | \$0 | \$660 | 0.753 | \$497 |
| 2030 | \$660 | \$0 | \$660 | 0.734 | \$485 |
| 2031 | \$660 | \$0 | \$660 | 0.717 | \$473 |
| 2032 | \$660 | \$0 | \$660 | 0.699 | \$461 |
| 2033 | \$660 | \$0 | \$660 | 0.682 | \$450 |
| 2034 | \$660 | \$0 | \$660 | 0.665 | \$439 |
| 2035 | \$660 | \$0 | \$660 | 0.649 | \$428 |
| 2036 | \$660 | \$0 | \$660 | 0.633 | \$418 |
| 2037 | \$660 | \$150,000 | \$150 , 660 | 0.618 | \$93,086 |
| %NPV | 10.10% | 89.90% | | | |
| | \$10,417 | \$92 , 678 | | | |
| Discounting Convention | М-О-У | М-О-Ү | | | |
| Inflation Schedule | No Inflation | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$652 | |
| 2019 | \$1,288 | |
| 2020 | \$1,908 | |
| 2021 | \$2,514 | |
| 2022 | \$3,104 | |
| 2023 | \$3,681 | |
| 2024 | \$4,243 | |
| 2025 | \$4,791 | |
| 2026 | \$5,326 | |
| 2027 | \$5,848 | |
| 2028 | \$6 , 357 | |
| 2029 | \$6,854 | |
| 2030 | \$7 , 339 | |
| 2031 | \$7,812 | |
| 2032 | \$8 , 273 | |
| 2033 | \$8,723 | |
| 2034 | \$9,162 | |
| 2035 | \$9,591 | |
| 2036 | \$10,009 | |
| 2037 | \$103,094 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*2000= \$20,000

- 2. Renovation/Conversion
 - a. Renovation/ Conversion

To be made practical, this building would require total and extensive renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*2,817 = \$150,000

- 3. Other DOD or Federal Agency
 - a. Other DOD or Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$75*2,000 = \$150,000.

Due to the relatively small size of this building (2,000 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

4. Caretaker Status

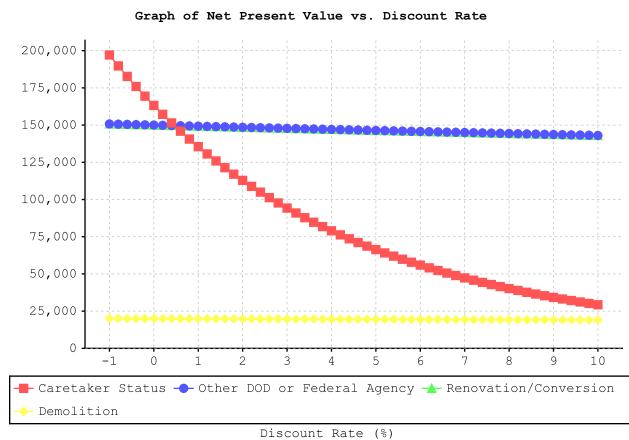
a. Caretaker Status Maintenance

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation/Conversion

The estimated renovation/conversion cost of this alternative is \$75/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred

at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 0.4 %

Dollars

NPV rankings change at the following discount rates: 0.4 $\ensuremath{\$}$

| | 1 0 0 | D'accurt Data | 0 (0 |
|--|---|---|---|
| Discount Rate = | -1.0% | Discount Rate = | 0.6% |
| Demolition | \$ 20,101 | Demolition | \$ 19 , 940 |
| Other DOD or Federal Agency | \$ 150,756 | Caretaker Status | \$ 145,925 |
| Renovation/Conversion | \$ 150,756 | Other DOD or Federal Agency | \$ 149 , 552 |
| Caretaker Status | \$ 197,096 | Renovation/Conversion | \$ 149 , 552 |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Demolition | \$ 20,080 | Demolition | \$ 19,920 |
| Other DOD or Federal Agency | \$ 150,604 | Caretaker Status | \$ 140,615 |
| Renovation/Conversion | \$ 150,604 | Other DOD or Federal Agency | \$ 149,404 |
| Caretaker Status | \$ 189,753 | Renovation/Conversion | \$ 149,404 |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Demolition | \$ 20,060 | Demolition | \$ 19 , 901 |
| Other DOD or Federal Agency | \$ 150,452 | Caretaker Status | \$ 135,514 |
| Renovation/Conversion | \$ 150 , 452 | Other DOD or Federal Agency | \$ 149,256 |
| Caretaker Status | \$ 182,705 | Renovation/Conversion | \$ 149,256 |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Demolition | \$ 20,040 | Demolition | \$ 19,881 |
| Other DOD or Federal Agency | \$ 150,301 | Caretaker Status | \$ 130,613 |
| Renovation/Conversion | \$ 150,301 | Other DOD or Federal Agency | \$ 149 , 108 |
| Caretaker Status | \$ 175 , 937 | Renovation/Conversion | \$ 149,108 |
| | | | |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Discount Rate = Demolition | \$ 20,020 | Discount Rate = | \$ 19,861 |
| Demolition Other DOD or Federal Agency | \$ 20,020 \$ 150,150 | Demolition Caretaker Status | \$ 19,861 \$ 125,904 |
| Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 20,020 \$ 150,150 \$ 150,150 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,861 \$ 125,904 \$ 148,961 |
| Demolition Other DOD or Federal Agency | \$ 20,020 \$ 150,150 | Demolition Caretaker Status | \$ 19,861 \$ 125,904 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 \$ 148,814 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 \$ 163,200 0.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 \$ 148,814 \$ 148,814 \$ 148,814 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 \$ 163,200 0.2% \$ 19,980 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 \$ 148,814 \$ 148,814 1.8% \$ 19,822 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 \$ 163,200 0.2% \$ 19,980 \$ 149,850 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 \$ 148,814 \$ 148,814 \$ 148,814 1.8% \$ 19,822 \$ 117,029 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 163,200 0.2% \$ 19,980 \$ 149,850 \$ 149,850 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 \$ 148,814 \$ 148,814 1.8% \$ 19,822 \$ 117,029 \$ 148,668 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 \$ 163,200 0.2% \$ 19,980 \$ 149,850 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 \$ 148,814 \$ 148,814 \$ 148,814 1.8% \$ 19,822 \$ 117,029 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 \$ 163,200 0.2% \$ 19,980 \$ 149,850 \$ 149,850 \$ 157,208 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 \$ 148,814 \$ 148,814 1.8% \$ 19,822 \$ 117,029 \$ 148,668 \$ 148,668 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 \$ 163,200 0.2% \$ 19,980 \$ 149,850 \$ 149,850 \$ 157,208 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 \$ 148,814 \$ 148,814 1.8% \$ 19,822 \$ 117,029 \$ 148,668 \$ 148,668 \$ 148,668 \$ 19,803 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 163,200 0.2% \$ 19,980 \$ 149,850 \$ 149,850 \$ 157,208 0.4% \$ 19,960 \$ 149,701 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 \$ 148,814 \$ 148,814 1.8% \$ 19,822 \$ 117,029 \$ 148,668 \$ 148,668 \$ 148,668 \$ 148,668 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 20,020 \$ 150,150 \$ 150,150 \$ 169,439 -0.0% \$ 20,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 150,000 \$ 163,200 0.2% \$ 19,980 \$ 149,850 \$ 149,850 \$ 149,850 \$ 157,208 0.4% \$ 19,960 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,861 \$ 125,904 \$ 148,961 \$ 148,961 1.6% \$ 19,842 \$ 121,379 \$ 148,814 \$ 148,814 1.8% \$ 19,822 \$ 117,029 \$ 148,668 \$ 148,668 \$ 148,668 \$ 19,803 |

NPV rankings change at the following discount rates: 0.4 $\ensuremath{\$}$

| Discount Rate = | 2.2% | Discount Rate = | 3.8% |
|---|--|---|--|
| Demolition | \$ 19,784 | Demolition | \$ 19 , 630 |
| Caretaker Status | \$ 108,832 | Caretaker Status | \$ 81,787 |
| Other DOD or Federal Agency | \$ 148,377 | | \$ 147,229 |
| Renovation/Conversion | \$ 148,377 | Renovation/Conversion | \$ 147,229 |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Demolition | \$ 19,764 | Demolition | \$ 19 , 612 |
| Caretaker Status | \$ 104,969 | Caretaker Status | \$ 78,961 |
| Other DOD or Federal Agency | \$ 148,232 | Other DOD or Federal Agency | \$ 147,087 |
| Renovation/Conversion | \$ 148,232 | Renovation/Conversion | \$ 147,087 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Demolition | \$ 19,745 | Demolition | \$ 19 , 593 |
| Caretaker Status | \$ 101,256 | Caretaker Status | \$ 76,243 |
| Other DOD or Federal Agency | \$ 148,087 | Other DOD or Federal Agency | \$ 146,946 |
| Renovation/Conversion | \$ 148,087 | Renovation/Conversion | \$ 146,946 |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Demolition | \$ 19 , 726 | Demolition | \$ 19 , 574 |
| Caretaker Status | \$ 97,686 | Caretaker Status | \$ 73 , 627 |
| Other DOD or Federal Agency | \$ 147,943 | Other DOD or Federal Agency | \$ 146,805 |
| Renovation/Conversion | \$ 147,943 | Renovation/Conversion | \$ 146,805 |
| | | | |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| Discount Rate = | 3.0% \$ 19,707 | Discount Rate = | 4.6% \$ 19,555 |
| | | | |
| Demolition | \$ 19,707 \$ 94,253 | Demolition | \$ 19 , 555 |
| Demolition Caretaker Status | \$ 19,707 \$ 94,253 | Demolition Caretaker Status | \$ 19,555 \$ 71,110 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 \$ 146,525 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 \$ 147,656 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 \$ 146,525 \$ 146,525 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 \$ 147,656 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 \$ 146,525 \$ 146,525 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 \$ 147,656 \$ 147,656 \$ 3.4% \$ 19,668 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 \$ 146,525 \$ 146,525 \$ 146,525 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 \$ 147,656 3.4% \$ 19,668 \$ 87,777 \$ 147,513 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 \$ 146,525 \$ 146,525 \$ 146,525 \$ 146,525 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 \$ 147,656 3.4% \$ 19,668 \$ 87,777 \$ 147,513 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 \$ 146,525 \$ 146,525 \$ 146,525 \$ 146,525 5.0% \$ 19,518 \$ 66,358 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 \$ 147,656 3.4% \$ 19,668 \$ 87,777 \$ 147,513 \$ 147,513 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 \$ 146,525 \$ 146,525 5.0% \$ 19,518 \$ 66,358 \$ 146,385 \$ 146,385 \$ 146,385 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 \$ 147,656 3.4% \$ 19,668 \$ 87,777 \$ 147,513 \$ 147,513 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 \$ 146,525 \$ 146,525 5.0% \$ 19,518 \$ 66,358 \$ 146,385 \$ 146,385 \$ 146,385 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 \$ 147,656 3.4% \$ 19,668 \$ 87,777 \$ 147,513 \$ 147,513 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 \$ 146,525 \$ 146,525 5.0% \$ 19,518 \$ 66,358 \$ 146,385 \$ 146,385 \$ 146,385 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,707 \$ 94,253 \$ 147,799 \$ 147,799 3.2% \$ 19,687 \$ 90,952 \$ 147,656 \$ 147,656 3.4% \$ 19,668 \$ 87,777 \$ 147,513 \$ 147,513 \$ 147,513 \$ 147,513 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,555 \$ 71,110 \$ 146,665 \$ 146,665 4.8% \$ 19,537 \$ 68,689 \$ 146,525 \$ 146,525 \$ 146,525 5.0% \$ 19,518 \$ 66,358 \$ 146,385 \$ 146,385 \$ 146,385 \$ 146,385 \$ 146,385 \$ 146,385 |

NPV rankings change at the following discount rates: 0.4 $\ensuremath{\$}$

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|---|--|---|--|
| Demolition | \$ 19,481 | Demolition | \$ 19,335 |
| Caretaker Status | \$ 61,955 | Caretaker Status | \$ 47,329 |
| Other DOD or Federal Agency | \$ 146 , 107 | Other DOD or Federal Agency | \$ 145,010 |
| Renovation/Conversion | \$ 146 , 107 | Renovation/Conversion | \$ 145,010 |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Demolition | \$ 19,462 | Demolition | \$ 19,317 |
| Caretaker Status | \$ 59,876 | Caretaker Status | \$ 45,791 |
| Other DOD or Federal Agency | \$ 145,969 | Other DOD or Federal Agency | \$ 144,875 |
| Renovation/Conversion | \$ 145,969 | Renovation/Conversion | \$ 144,875 |
| | | | |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Demolition | \$ 19,444 | Demolition | \$ 19,299 |
| Caretaker Status | \$ 57,874 | Caretaker Status | \$ 44,309 |
| Other DOD or Federal Agency | \$ 145,831 | Other DOD or Federal Agency | \$ 144,740 |
| Renovation/Conversion | \$ 145,831 | Renovation/Conversion | \$ 144,740 |
| Discount Rate = | 6.0% | Discount Rate = | 7.6% |
| Demolition | \$ 19,426 | Demolition | \$ 19,281 |
| Caretaker Status | \$ 55,947 | Caretaker Status | \$ 42,881 |
| Other DOD or Federal Agency | \$ 145,693 | Other DOD or Federal Agency | \$ 144,606 |
| Renovation/Conversion | \$ 145,693 | Renovation/Conversion | \$ 144,606 |
| Discount Rate = | 6.2% | Discount Rate = | 7 0 % |
| | 0.20 | Discount Rate - | 1.00 |
| Demolition | \$ 19,407 | Demolition | \$ 19,263 |
| Demolition Caretaker Status | | | |
| | \$ 19 , 407 | Demolition | \$ 19 , 263 |
| Caretaker Status | \$ 19,407 \$ 54,092 | Demolition Caretaker Status | \$ 19,263 \$ 41,505 |
| Caretaker Status Other DOD or Federal Agency | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 \$ 145,419 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 \$ 145,419 \$ 145,419 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 \$ 144,338 \$ 144,338 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 \$ 145,419 \$ 145,419 \$ 145,419 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 \$ 144,338 \$ 144,338 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 \$ 145,419 \$ 145,419 \$ 145,419 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 \$ 144,338 \$ 144,338 \$ 144,338 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 \$ 145,419 \$ 145,419 \$ 145,419 \$ 145,419 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 \$ 144,338 \$ 144,338 8.2% \$ 19,227 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 \$ 145,419 \$ 145,419 \$ 145,419 \$ 145,419 \$ 19,371 \$ 50,584 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 \$ 144,338 \$ 144,338 8.2% \$ 19,227 \$ 38,901 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 \$ 145,419 \$ 145,419 6.6% \$ 19,371 \$ 50,584 \$ 145,282 \$ 145,282 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 \$ 144,338 \$ 144,338 8.2% \$ 19,227 \$ 38,901 \$ 144,204 \$ 144,204 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 \$ 145,419 \$ 145,419 6.6% \$ 19,371 \$ 50,584 \$ 145,282 \$ 145,282 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 \$ 144,338 \$ 144,338 8.2% \$ 19,227 \$ 38,901 \$ 144,204 \$ 144,204 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 \$ 145,419 \$ 145,419 6.6% \$ 19,371 \$ 50,584 \$ 145,282 \$ 145,282 \$ 145,282 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 \$ 144,338 \$ 144,338 8.2% \$ 19,227 \$ 38,901 \$ 144,204 \$ 144,204 \$ 144,204 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 19,407 \$ 54,092 \$ 145,556 \$ 145,556 6.4% \$ 19,389 \$ 52,305 \$ 145,419 \$ 145,419 6.6% \$ 19,371 \$ 50,584 \$ 145,282 \$ 145,282 \$ 145,282 \$ 145,282 \$ 145,282 \$ 145,282 \$ 145,282 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 19,263 \$ 41,505 \$ 144,471 \$ 144,471 8.0% \$ 19,245 \$ 40,179 \$ 144,338 \$ 144,338 8.2% \$ 19,227 \$ 38,901 \$ 144,204 \$ 144,204 \$ 144,204 \$ 144,204 |

NPV rankings change at the following discount rates: 0.4 %

Table of Net Present Values for each Discount Rate

Discount Rate = 8.6% Demolition \$ 19,192 Caretaker Status \$ 36,482 Other DOD or Federal Agency \$ 143,938 Renovation/Conversion \$ 143,938 Discount Rate = 8.8% Demolition \$ 19,174 Caretaker Status \$ 35,337 \$ 143,806 Other DOD or Federal Agency Renovation/Conversion \$ 143,806 Discount Rate = 9.0% Demolition \$ 19**,**157 Caretaker Status \$ 34,233 Other DOD or Federal Agency \$ 143,674 Renovation/Conversion \$ 143,674 Discount Rate = 9.2% Demolition \$ 19,139 Caretaker Status \$ 33,169 Other DOD or Federal Agency \$ 143,542 Renovation/Conversion \$ 143,542 Discount Rate = 9.4% Demolition \$ 19,121 \$ 32,143 Caretaker Status Other DOD or Federal Agency \$ 143,411 \$ 143,411 Renovation/Conversion Discount Rate = 9.6% Demolition \$ 19,104 \$ 31,153 Caretaker Status Other DOD or Federal Agency \$ 143,280 Renovation/Conversion \$ 143,280 Discount Rate = 9.8% Demolition \$ 19,087 Caretaker Status \$ 30,199 Other DOD or Federal Agency \$ 143,150 Renovation/Conversion \$ 143,150 Discount Rate = 10.0% Demolition \$ 19,069 Caretaker Status \$ 29,278 Other DOD or Federal Agency \$ 143,019 Renovation/Conversion \$ 143,019

Date Generated: 12 June 2018 Time Generated: 16.37.34 Version: ECONPACK 4.0.32

Building 381 Disposal Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|--|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 381 |
| | that meets the EXORD requirement to reduce excess square footage. |

Background:

Building 381 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 704*10 = \$7,040. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 44224, Organizational Storage. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 704*55 = \$38,720. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative This is a viable alternative.

Other DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*704 = \$38,720. Due to the relatively small size of this building (704 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*704 = \$232.32/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

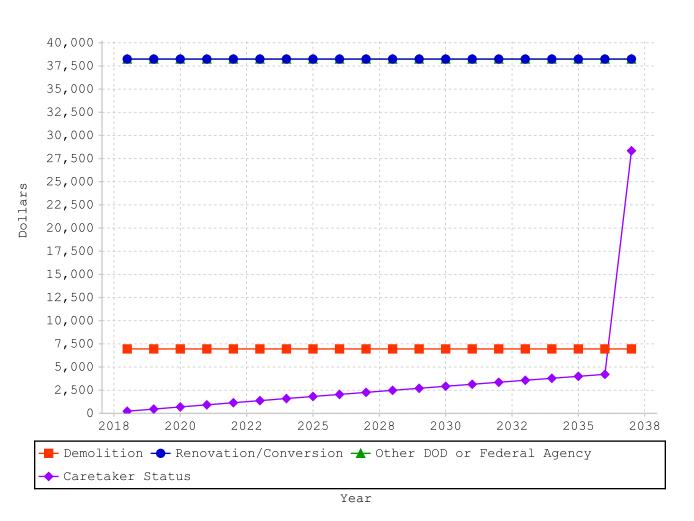
Economic Indicators:

| Alternative | NPV | |
|-----------------------------|-------------------|--|
| Demolition | \$ 6 , 954 | |
| Renovation/Conversion | \$ 38,245 | |
| Other DOD or Federal Agency | \$ 38,245 | |
| Caretaker Status | \$ 28,344 | |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 381 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | : Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$7,040 | \$7,040 | 0.988 | \$6 , 954 | \$6 , 954 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$6,954 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$6,954 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$6,954 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$6,954 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$6,954 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$6 , 954 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$6,954 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$6,954 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$6,954 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$6,954 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$6,954 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$6 , 954 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$6,954 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$6 , 954 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$6,954 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$6,954 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$6,954 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$6,954 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$6,954 |
| %NPV | 100.00% | | | | |
| | \$6,954 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| D'arrest Data | | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|-------------------|------------------------------------|
| 2018 | \$38,720 | \$38 , 720 | 0.988 | \$38 , 245 | \$38,245 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$38,245 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$38,245 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$38,245 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$38,245 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$38,245 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$38,245 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$38,245 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$38,245 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$38,245 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$38,245 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$38,245 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$38,245 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$38,245 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$38,245 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$38,245 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$38,245 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$38,245 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$38,245 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$38,245 |
| %NPV | 100.00% | | | | |
| | \$38,245 | | | | |
| Discounting Convention | М-О-Х | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Residual | Costs | | | | |

Alternative: Other DOD or Federal Agency

| Year | Other DOD or Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$38,720 | \$38 , 720 | 0.988 | \$38,245 | \$38,245 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$38,245 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$38,245 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$38,245 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$38,245 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$38,245 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$38,245 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$38,245 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$38,245 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$38,245 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$38,245 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$38,245 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$38,245 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$38,245 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$38,245 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$38,245 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$38,245 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$38,245 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$38,245 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$38,245 |
| %NPV | 100.00% | | | | |
| | \$38,245 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| D'sseet Dates | 2 5 9 | | | | |

Alternative: Caretaker Status

| Year | Caretaker F Status | Renovation/Con struction | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|-----------------------|-----------------------------|----------------------------|--|------------------|
| 2018 | \$234 | \$0 | \$234 | 0.988 | \$231 |
| 2019 | \$239 | \$0 | \$239 | 0.964 | \$230 |
| 2020 | \$244 | \$0 | \$244 | 0.94 | \$229 |
| 2021 | \$249 | \$0 | \$249 | 0.917 | \$228 |
| 2022 | \$254 | \$0 | \$254 | 0.895 | \$227 |
| 2023 | \$259 | \$0 | \$259 | 0.873 | \$226 |
| 2024 | \$264 | \$0 | \$264 | 0.852 | \$225 |
| 2025 | \$269 | \$0 | \$269 | 0.831 | \$224 |
| 2026 | \$275 | \$0 | \$275 | 0.811 | \$223 |
| 2027 | \$280 | \$0 | \$280 | 0.791 | \$221 |
| 2028 | \$286 | \$0 | \$286 | 0.772 | \$220 |
| 2029 | \$291 | \$0 | \$291 | 0.753 | \$219 |
| 2030 | \$297 | \$0 | \$297 | 0.734 | \$218 |
| 2031 | \$303 | \$0 | \$303 | 0.717 | \$217 |
| 2032 | \$309 | \$0 | \$309 | 0.699 | \$216 |
| 2033 | \$315 | \$0 | \$315 | 0.682 | \$215 |
| 2034 | \$322 | \$0 | \$322 | 0.665 | \$214 |
| 2035 | \$328 | \$0 | \$328 | 0.649 | \$213 |
| 2036 | \$335 | \$0 | \$335 | 0.633 | \$212 |
| 2037 | \$341 | \$38 , 720 | \$39,061 | 0.618 | \$24,134 |
| %NPV | 15.60% | 84.40% | | | |
| | \$4,420 | \$23 , 923 | | | |
| Discounting Convention | М-О-У | М-О-У | | | |
| Inflation Schedule | 2017 General | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$231 | |
| 2019 | \$462 | |
| 2020 | \$691 | |
| 2021 | \$919 | |
| 2022 | \$1,146 | |
| 2023 | \$1,372 | |
| 2024 | \$1,597 | |
| 2025 | \$1,820 | |
| 2026 | \$2,043 | |
| 2027 | \$2,264 | |
| 2028 | \$2,485 | |
| 2029 | \$2,704 | |
| 2030 | \$2 , 922 | |
| 2031 | \$3,139 | |
| 2032 | \$3 , 355 | |
| 2033 | \$3 , 570 | |
| 2034 | \$3 , 785 | |
| 2035 | \$3 , 997 | |
| 2036 | \$4,209 | |
| 2037 | \$28,344 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*704 = \$7,040

- 2. Renovation/Conversion
 - a. Renovation/ Conversion

To be made practical, this building would require total renovation to include repairing

or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*704 = \$38,720.

- 3. Other DOD or Federal Agency
 - a. Other DOD or Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*704=\$38,720.

Due to the relatively small size of this building (704 sf), location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

4. Caretaker Status

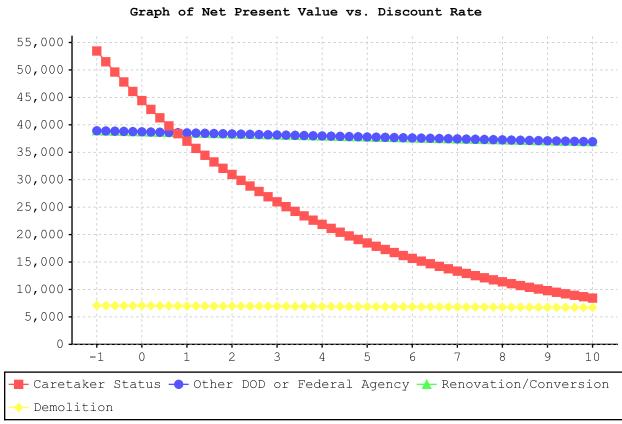
a. Caretaker Status

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation/Construction

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred

at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Discount Rate (%)

Dollars

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| | _1 0% | | Discount Pate - | 0 6 % | |
|--|-------|---|--|-------|---|
| Discount Rate = | -1.0% | | Discount Rate = | 0.03 | |
| Demolition | | \$ 7,075 | Demolition | | \$ 7,019 |
| Other DOD or Federal Agency Renovation/Conversion | | \$ 38,915 | Other DOD or Federal Agency | | \$ 38,604 |
| Caretaker Status | | \$ 38,915 \$ 53,450 | Renovation/Conversion Caretaker Status | | \$ 38,604 \$ 39,801 |
| Caletaker Status | | Ş JJ , 4JU | Caletakel Status | | ς 39 , 001 |
| Discount Rate = | -0.8% | | Discount Rate = | 0.8% | |
| Demolition | | \$ 7 , 068 | Demolition | | \$ 7,012 |
| Other DOD or Federal Agency | | \$ 38,876 | Caretaker Status | | \$ 38,383 |
| Renovation/Conversion | | \$ 38,876 | Other DOD or Federal Agency | | \$ 38,566 |
| Caretaker Status | | \$ 51,494 | Renovation/Conversion | | \$ 38,566 |
| Discount Rate = | -0.6% | | Discount Rate = | 1.0% | |
| Demolition | | \$ 7 , 061 | Demolition | | \$ 7,005 |
| Other DOD or Federal Agency | | \$ 38,837 | Caretaker Status | | \$ 37,020 |
| Renovation/Conversion | | \$ 38,837 | Other DOD or Federal Agency | | \$ 38,528 |
| Caretaker Status | | \$ 49,615 | Renovation/Conversion | | \$ 38,528 |
| Discount Rate = | -0.4% | | Discount Rate = | 1.2% | |
| Demolition | | \$ 7 , 054 | Demolition | | \$ 6 , 998 |
| Other DOD or Federal Agency | | \$ 38,798 | Caretaker Status | | \$ 35,710 |
| Renovation/Conversion | | \$ 38 , 798 | Other DOD or Federal Agency | | \$ 38,490 |
| Caretaker Status | | \$ 47,811 | Renovation/Conversion | | \$ 38,490 |
| Discount Rate = | -0.2% | | Discount Rate = | 1.4% | |
| Demolition | | \$ 7 , 047 | Demolition | | \$ 6 , 991 |
| Other DOD or Federal Agency | | \$ 38,759 | Caretaker Status | | \$ 34,450 |
| Renovation/Conversion | | \$ 38,759 | Other DOD or Federal Agency | | \$ 38,452 |
| Caretaker Status | | \$ 46,078 | Renovation/Conversion | | \$ 38,452 |
| Discount Rate = | -0.0% | | Discount Rate = | 1.6% | |
| Demolition | | \$ 7,040 | | | <u> </u> |
| Demotieteien | | φ / / Ο10 | Demolition | | \$ 6 , 984 |
| Other DOD or Federal Agency | | \$ 38,720 | Demolition Caretaker Status | | \$ 6,984 \$ 33,240 |
| | | \$ 38,720 | | | \$ 33,240 |
| Other DOD or Federal Agency | | \$ 38,720 \$ 38,720 | Caretaker Status | | \$ 33,240 |
| Other DOD or Federal Agency Renovation/Conversion | | \$ 38,720 \$ 38,720 | Caretaker Status Other DOD or Federal Agency | | \$ 33,240 \$ 38,414 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status | | \$ 38,720 \$ 38,720 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion | | \$ 33,240 \$ 38,414 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | | \$ 38,720 \$ 38,720 \$ 44,413 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | | \$ 33,240 \$ 38,414 \$ 38,414 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | | \$ 38,720 \$ 38,720 \$ 44,413 \$ 7,033 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | | \$ 33,240 \$ 38,414 \$ 38,414 \$ 38,414 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | | \$ 38,720 \$ 38,720 \$ 44,413 \$ 7,033 \$ 38,681 \$ 38,681 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | | \$ 33,240 \$ 38,414 \$ 38,414 \$ 38,414 \$ 6,977 \$ 32,076 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | 0.2% | \$ 38,720 \$ 38,720 \$ 44,413 \$ 7,033 \$ 38,681 \$ 38,681 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 1.8% | \$ 33,240 \$ 38,414 \$ 38,414 \$ 6,977 \$ 32,076 \$ 38,376 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | 0.2% | \$ 38,720 \$ 38,720 \$ 44,413 \$ 7,033 \$ 38,681 \$ 38,681 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 1.8% | \$ 33,240 \$ 38,414 \$ 38,414 \$ 38,414 \$ 6,977 \$ 32,076 \$ 38,376 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = | 0.2% | \$ 38,720 \$ 38,720 \$ 44,413 \$ 7,033 \$ 38,681 \$ 38,681 \$ 38,681 \$ 42,814 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 1.8% | \$ 33,240 \$ 38,414 \$ 38,414 \$ 38,414 \$ 6,977 \$ 32,076 \$ 38,376 \$ 38,376 |
| Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | 0.2% | \$ 38,720 \$ 38,720 \$ 44,413 \$ 7,033 \$ 38,681 \$ 38,681 \$ 42,814 \$ 7,026 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 1.8% | \$ 33,240 \$ 38,414 \$ 38,414 \$ 38,414 \$ 6,977 \$ 32,076 \$ 38,376 \$ 38,376 \$ 38,376 \$ 38,376 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 2.2% | | Discount Rate = | 3.8% | |
|---|------|---|---|------|--|
| Demolition | | \$ 6,964 | Demolition | | \$ 6,910 |
| Caretaker Status | | \$ 29,881 | Caretaker Status | | \$ 22,626 |
| Other DOD or Federal Agency | | | Other DOD or Federal Agency | | \$ 38,005 |
| Renovation/Conversion | | | Renovation/Conversion | | \$ 38,005 |
| | | , | | | , |
| Discount Rate = | 2.4% | | Discount Rate = | 4.0% | |
| Demolition | | \$ 6,957 | Demolition | | \$ 6,903 |
| Caretaker Status | | \$ 28,846 | Caretaker Status | | \$ 21,866 |
| Other DOD or Federal Agency | | \$ 38,264 | Other DOD or Federal Agency | | \$ 37,968 |
| Renovation/Conversion | | \$ 38,264 | Renovation/Conversion | | \$ 37,968 |
| Discount Rate = | 2.6% | | Discount Rate = | 4.2% | |
| Demolition | | \$ 6,950 | Demolition | | \$ 6 , 897 |
| Caretaker Status | | \$ 27,851 | Caretaker Status | | \$ 21,135 |
| Other DOD or Federal Agency | | \$ 38,226 | Other DOD or Federal Agency | | \$ 37,932 |
| Renovation/Conversion | | \$ 38,226 | Renovation/Conversion | | \$ 37,932 |
| | | | | | |
| Discount Rate = | 2.8% | | Discount Rate = | 4.4% | |
| Demolition | | \$ 6,943 | Demolition | | \$ 6,890 |
| Caretaker Status | | \$ 26,894 | Caretaker Status | | \$ 20,432 |
| Other DOD or Federal Agency | | \$ 38,189 | Other DOD or Federal Agency | | \$ 37,895 |
| Renovation/Conversion | | \$ 38,189 | Renovation/Conversion | | \$ 37,895 |
| Discount Rate = | 3.0% | | Discount Rate = | 4.6% | |
| | | | | | |
| Demolition | | \$ 6 , 937 | Demolition | | \$ 6 , 883 |
| Demolition Caretaker Status | | \$ 6,937 \$ 25,973 | Demolition Caretaker Status | | \$ 6,883 \$ 19,755 |
| | | • | | | |
| Caretaker Status | | \$ 25,973 | Caretaker Status | | \$ 19 , 755 |
| Caretaker Status Other DOD or Federal Agency | | \$ 25,973 \$ 38,152 | Caretaker Status Other DOD or Federal Agency | | \$ 19,755 \$ 37,859 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion | | \$ 25,973 \$ 38,152 \$ 38,152 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion | | \$ 19,755 \$ 37,859 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | | \$ 19,755 \$ 37,859 \$ 37,859 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 6,930 \$ 6,930 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 6,877 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 6,930 \$ 25,087 \$ 38,115 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 37,859 \$ 6,877 \$ 19,102 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 6,930 \$ 25,087 \$ 38,115 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 6,877 \$ 19,102 \$ 37,823 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 6,930 \$ 25,087 \$ 38,115 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 6,877 \$ 19,102 \$ 37,823 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 6,930 \$ 25,087 \$ 38,115 \$ 38,115 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 6,877 \$ 19,102 \$ 37,823 \$ 37,823 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 6,930 \$ 25,087 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 6,877 \$ 19,102 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 38,155 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,125 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 6,877 \$ 19,102 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 38,155 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,125 \$ 38,235 \$ 24,235 \$ 38,078 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 6,877 \$ 19,102 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 38,155 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,125 \$ 38,235 \$ 24,235 \$ 38,078 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 6,877 \$ 19,102 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 25,087 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,078 \$ 38,078 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 4.8% | <pre>\$ 19,755 \$ 37,859 \$ 37,859 \$ 37,859 \$ 19,102 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,787 \$ 37,787</pre> |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 25,087 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,078 \$ 38,078 \$ 38,078 \$ 38,078 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 37,859 \$ 19,102 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,787 \$ 37,787 \$ 37,787 \$ 37,787 \$ 37,787 \$ 37,787 \$ 37,751 |
| Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 3.2% | \$ 25,973 \$ 38,152 \$ 38,152 \$ 38,152 \$ 38,155 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,115 \$ 38,078 \$ 38,078 \$ 38,078 \$ 38,078 | Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | 4.8% | \$ 19,755 \$ 37,859 \$ 37,859 \$ 37,859 \$ 19,102 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,823 \$ 37,787 \$ 37,787 \$ 37,787 \$ 37,787 \$ 37,787 |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

| Discount Rate = | 5 4 % | | Discount Rate = | 7 0% | |
|--------------------------------|-------|------------------------|--------------------------------|-------|------------------------|
| | 5.10 | | | 7.00 | ¢ < 000 |
| Demolition Caretaker Status | | \$ 6,857 | Demolition Caretaker Status | | \$ 6,806 \$ 13,336 |
| Other DOD or Federal Agency | | \$ 17,288 \$ 37,715 | Other DOD or Federal Agency | | \$ 13,336 \$ 37,432 |
| Renovation/Conversion | | | Renovation/Conversion | | \$ 37,432 \$ 37,432 |
| Kenovación/conversión | | ς σ ι, Ιτο | Kenovación/conversión | | y J/ , 4JZ |
| Discount Rate = | 5.6% | | Discount Rate = | 7.2% | |
| Demolition | | \$ 6,851 | Demolition | | \$ 6,799 |
| Caretaker Status | | \$ 16 , 727 | Caretaker Status | | \$ 12,920 |
| Other DOD or Federal Agency | | \$ 37 , 679 | Other DOD or Federal Agency | | \$ 37 , 397 |
| Renovation/Conversion | | \$ 37 , 679 | Renovation/Conversion | | \$ 37 , 397 |
| Discount Rate = | 5.8% | | Discount Rate = | 7.4% | |
| Demolition | | \$ 6,844 | Demolition | | \$ 6 , 793 |
| Caretaker Status | | \$ 16,187 | Caretaker Status | | \$ 12,518 |
| Other DOD or Federal Agency | | \$ 37,644 | Other DOD or Federal Agency | | \$ 37 , 362 |
| Renovation/Conversion | | \$ 37,644 | Renovation/Conversion | | \$ 37,362 |
| Discount Rate = | 6.0% | | Discount Rate = | 7.6% | |
| Demolition | | \$ 6,838 | Demolition | | \$ 6 , 787 |
| Caretaker Status | | \$ 15,667 | Caretaker Status | | \$ 12,131 |
| Other DOD or Federal Agency | | \$ 37,608 | Other DOD or Federal Agency | | \$ 37,328 |
| Renovation/Conversion | | \$ 37,608 | Renovation/Conversion | | \$ 37,328 |
| Discount Rate = | 6 28 | | Discount Rate = | 7 8 9 | |
| | 0.20 | | | 1.00 | |
| Demolition | | \$ 6,831 | Demolition | | \$ 6,781 |
| Caretaker Status | | \$ 15,165 | Caretaker Status | | \$ 11,758 |
| Other DOD or Federal Agency | | \$ 37,573 | Other DOD or Federal Agency | | \$ 37,293 |
| Renovation/Conversion | | \$ 37 , 573 | Renovation/Conversion | | \$ 37,293 |
| Discount Rate = | 6.4% | | Discount Rate = | 8.0% | |
| Demolition | | \$ 6,825 | Demolition | | \$ 6 , 774 |
| Caretaker Status | | \$ 14,682 | Caretaker Status | | \$ 11 , 398 |
| Other DOD or Federal Agency | | | Other DOD or Federal Agency | | \$ 37 , 258 |
| Renovation/Conversion | | \$ 37,537 | Renovation/Conversion | | \$ 37,258 |
| Discount Rate = | 6.6% | | Discount Rate = | 8.2% | |
| Demolition | | \$ 6,819 | Demolition | | \$ 6 , 768 |
| Caretaker Status | | \$ 14 , 217 | Caretaker Status | | \$ 11,051 |
| Other DOD or Federal Agency | | \$ 37 , 502 | Other DOD or Federal Agency | | \$ 37 , 224 |
| Renovation/Conversion | | \$ 37 , 502 | Renovation/Conversion | | \$ 37 , 224 |
| Discount Rate = | 6.8% | | Discount Rate = | 8.4% | |
| Demolition | | \$ 6,812 | Demolition | | \$ 6 , 762 |
| Caretaker Status | | \$ 13 , 769 | Caretaker Status | | \$ 10,716 |
| Other DOD or Federal Agency | | \$ 37,467 | Other DOD or Federal Agency | | \$ 37,190 |
| Renovation/Conversion | | \$ 37 , 467 | Renovation/Conversion | | \$ 37 , 190 |
| | | | | | |

NPV rankings change at the following discount rates: 0.7 $\ensuremath{\$}$

Table of Net Present Values for each Discount Rate

Discount Rate = 8.6%

| | 8.6% | |
|--|------|---|
| Demolition | | \$ 6 , 756 |
| | | |
| Caretaker Status | | \$ 10,393 |
| Other DOD or Federal Agency | | \$ 37 , 155 |
| Renovation/Conversion | | \$ 37 , 155 |
| | | |
| Discount Rate = | 8.8% | |
| | | |
| Demolition | | \$ 6,749 |
| Caretaker Status | | \$ 10,082 |
| Other DOD or Federal Agency | | \$ 37 , 121 |
| Renovation/Conversion | | \$ 37,121 |
| | | |
| Discount Rate = | 9.0% | |
| | | |
| Demolition | | \$ 6,743 |
| Caretaker Status | | \$ 9 , 781 |
| Other DOD or Federal Agency | | \$ 37 , 087 |
| Renovation/Conversion | | \$ 37,087 |
| | | |
| Discount Rate = | 9.2% | |
| D | | <u> </u> |
| Demolition | | \$ 6,737 |
| Caretaker Status | | \$ 9,491 |
| Other DOD or Federal Agency | | \$ 37,053 |
| Renovation/Conversion | | \$ 37,053 |
| | | |
| Discount Rate = | 9.4% | |
| Demolition | | Ċ C 701 |
| Demolition | | \$ 6,731 |
| Caretaker Status | | \$ 9,212 |
| | | \$ 37,019 |
| Other DOD or Federal Agency | | |
| Renovation/Conversion | | \$ 37 , 019 |
| | | \$ 37,019 |
| | 9.6% | \$ 37,019 |
| Renovation/Conversion Discount Rate = | 9.6% | |
| Renovation/Conversion Discount Rate = Demolition | 9.6% | \$ 6 , 725 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.6% | \$ 6,725 \$ 8,942 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.6% | \$ 6,725 \$ 8,942 \$ 36,985 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.6% | \$ 6,725 \$ 8,942 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.6% | \$ 6,725 \$ 8,942 \$ 36,985 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | | \$ 6,725 \$ 8,942 \$ 36,985 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,985 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,985 \$ 6,718 \$ 8,681 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,985 \$ 6,718 \$ 8,681 \$ 36,952 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,985 \$ 6,718 \$ 8,681 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 9.8% | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,985 \$ 6,718 \$ 8,681 \$ 36,952 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.8% | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,985 \$ 6,718 \$ 8,681 \$ 36,952 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | 9.8% | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,985 \$ 6,718 \$ 8,681 \$ 36,952 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | 9.8% | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,718 \$ 8,681 \$ 36,952 \$ 36,952 \$ 36,952 \$ 36,952 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.8% | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,985 \$ 6,718 \$ 8,681 \$ 36,952 \$ 36,952 \$ 36,952 \$ 36,952 \$ 36,952 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | 9.8% | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,985 \$ 6,718 \$ 8,681 \$ 36,952 \$ 36,952 \$ 36,952 \$ 6,712 \$ 8,430 \$ 36,918 |
| Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | 9.8% | \$ 6,725 \$ 8,942 \$ 36,985 \$ 36,985 \$ 36,985 \$ 6,718 \$ 8,681 \$ 36,952 \$ 36,952 \$ 36,952 \$ 36,952 \$ 36,952 |

Date Generated: 12 June 2018 Time Generated: 12.43.50 Version: ECONPACK 4.0.32

Building 1045 Disposal Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|---|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 1045 |
| | that meets the EXORD requirement to reduce excess square footage. |

Background:

Building 1045 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 8,156*10 = \$81,560. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 17120, General Instruction Building. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 8,156*55 = \$448,580. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative This is a viable alternative.

Other DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*8,156 = \$448,580. Due to the location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*8,156 = \$2,691/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

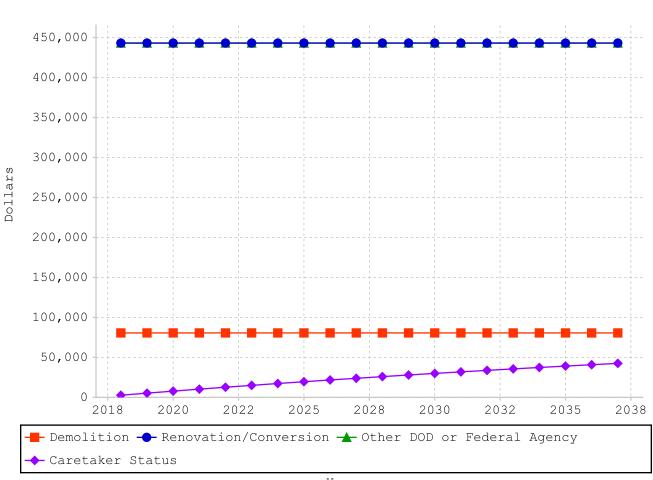
Economic Indicators:

| Alternative | NPV |
|-----------------------------|--------------------|
| Demolition | \$ 80 , 559 |
| Renovation/Conversion | \$ 443,076 |
| Other DOD or Federal Agency | \$ 443,076 |
| Caretaker Status | \$ 42,472 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility In its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 1045 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | : Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

Year

3

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|-------------------|------------------------------------|
| 2018 | \$81,560 | \$81 , 560 | 0.988 | \$80 , 559 | \$80 , 559 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$80 , 559 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$80,559 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$80,559 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$80,559 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$80 , 559 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$80,559 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$80 , 559 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$80,559 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$80,559 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$80,559 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$80,559 |
| 2030 | \$O | \$0 | 0.734 | \$0 | \$80 , 559 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$80 , 559 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$80 , 559 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$80,559 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$80,559 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$80,559 |
| 2036 | \$O | \$0 | 0.633 | \$0 | \$80 , 559 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$80 , 559 |
| %NPV | 100.00% | | | | |
| | \$80 , 559 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | | | | | |

Alternative: Renovation/Conversion

| 2019\$0\$00.964\$0\$443,2020\$0\$0\$00.94\$0\$443,2021\$0\$0\$00.917\$0\$443,2022\$0\$0\$00.895\$0\$443,2023\$0\$0\$00.873\$0\$443,2024\$0\$0\$00.852\$0\$443,2025\$0\$0\$00.811\$0\$443,2026\$0\$00.791\$0\$443,2027\$0\$0\$00.72\$0\$443,2028\$0\$00.772\$0\$443,2030\$0\$00.717\$0\$443,2031\$0\$00.699\$0\$443,2033\$0\$0\$00.682\$0\$443,2034\$0\$0\$00.665\$0\$443,2035\$0\$0\$00.649\$0\$443,2036\$0\$0\$0\$649,\$443, | Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|---|----------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2020 $$0$ $$0$ $$0$ $$0$ $$0$ $$443$ 2021 $$0$ $$0$ $$0$ 0.917 $$0$ $$443$ 2022 $$0$ $$0$ 0.895 $$0$ $$443$ 2023 $$0$ $$0$ 0.895 $$0$ $$443$ 2024 $$0$ $$0$ 0.852 $$0$ $$443$ 2025 $$0$ $$0$ 0.831 $$0$ $$443$ 2026 $$0$ $$0$ 0.811 $$0$ $$443$ 2027 $$0$ $$0$ 0.772 $$0$ $$443$ 2028 $$0$ $$0$ 0.772 $$0$ $$443$ 2029 $$0$ $$0$ 0.773 $$0$ $$443$ 2030 $$0$ $$0$ 0.774 $$0$ $$443$ 2031 $$0$ $$0$ 0.6699 $$0$ $$443$ 2032 $$0$ $$0$ 0.6699 $$0$ $$443$ 2033 $$0$ $$0$ 0.665 $$0$ $$443$ 2034 $$0$ $$0$ 0.665 $$0$ $$443$ 2035 $$0$ $$0$ $$0$ 0.633 $$0$ $$443$ 2036 $$0$ $$0$ 0.633 $$0$ $$443$ 2036 $$0$ $$0$ 0.633 $$0$ $$443$ 2036 $$0$ $$0$ 0.618 $$0$ $$443$ 2036 $$0$ $$0$ 0.618 $$0$ $$443$ 2036 $$0$ $$0$ 0.618 $$0$ $$443$ 2036 $$$ | 2018 | \$448,580 | \$448,580 | 0.988 | \$443,076 | \$443,076 |
| 2021 $$0$ $$0$ 0.917 $$0$ $$443$ 2022 $$0$ $$0$ 0.895 $$0$ $$443$ 2023 $$0$ $$0$ 0.873 $$0$ $$443$ 2024 $$0$ $$0$ 0.852 $$0$ $$443$ 2025 $$0$ $$0$ 0.831 $$0$ $$443$ 2026 $$0$ $$0$ 0.811 $$0$ $$443$ 2027 $$0$ $$0$ 0.772 $$0$ $$443$ 2028 $$0$ $$0$ 0.772 $$0$ $$443$ 2029 $$0$ $$0$ 0.773 $$0$ $$443$ 2030 $$0$ $$0$ 0.717 $$0$ $$443$ 2031 $$0$ $$0$ 0.662 $$0$ $$443$ 2033 $$0$ $$0$ 0.665 $$0$ $$443$ 2034 $$0$ $$0$ $$0$ 0.665 $$0$ 2034 $$0$ $$0$ $$0$ 0.649 $$0$ $$443$ 2035 $$0$ $$0$ $$0$ 0.633 $$0$ $$443$ 2037 $$0$ $$0$ $$0$ 0.618 $$0$ $$443$ | 2019 | \$0 | \$0 | 0.964 | \$0 | \$443,076 |
| 2022 $$0$ $$0$ 0.895 $$0$ $$443$ 2023 $$0$ $$0$ 0.873 $$0$ $$443$ 2024 $$0$ $$0$ 0.852 $$0$ $$443$ 2025 $$0$ $$0$ 0.831 $$0$ $$443$ 2026 $$0$ $$0$ 0.811 $$0$ $$443$ 2027 $$0$ $$0$ 0.791 $$0$ $$443$ 2028 $$0$ $$0$ 0.772 $$0$ $$443$ 2029 $$0$ $$0$ 0.7734 $$0$ $$443$ 2030 $$0$ $$0$ 0.7177 $$0$ $$443$ 2031 $$0$ $$0$ 0.7177 $$0$ $$443$ 2032 $$0$ $$0$ 0.682 $$0$ $$443$ 2033 $$0$ $$0$ 0.665 $$0$ $$443$ 2034 $$0$ $$0$ 0.665 $$0$ $$443$ 2035 $$0$ $$0$ $$0$ 0.633 $$0$ $$443$ 2036 $$0$ $$0$ $$0$ 0.633 $$0$ $$443$ 2036 $$0$ $$0$ $$0$ 0.633 $$0$ $$443$ 2036 $$0$ $$0$ 0.618 $$0$ $$443$ 2037 $$0$ $$0$ 0.618 $$0$ $$443$ 2036 $$0$ $$0$ 0.618 $$0$ $$443$ 2036 $$0$ $$0$ 0.618 $$0$ $$443$ 2036 $$0$ $$0$ 0.618 $$0$ $$443$ 2036 <t< td=""><td>2020</td><td>\$0</td><td>\$0</td><td>0.94</td><td>\$0</td><td>\$443,076</td></t<> | 2020 | \$0 | \$0 | 0.94 | \$0 | \$443,076 |
| 2023 \$0 \$0 0.873 \$0 \$443, 2024 \$0 \$0 0.852 \$0 \$443, 2025 \$0 \$0 0.852 \$0 \$443, 2026 \$0 \$0 0.831 \$0 \$443, 2026 \$0 \$0 0.811 \$0 \$443, 2027 \$0 \$0 0.791 \$0 \$443, 2028 \$0 \$0 0.772 \$0 \$443, 2029 \$0 \$0 0.753 \$0 \$443, 2030 \$0 \$0 0.734 \$0 \$443, 2031 \$0 \$0 0.717 \$0 \$443, 2032 \$0 \$0 0.699 \$0 \$443, 2033 \$0 \$0 0.682 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.633 \$0 \$443, </td <td>2021</td> <td>\$0</td> <td>\$0</td> <td>0.917</td> <td>\$0</td> <td>\$443,076</td> | 2021 | \$0 | \$0 | 0.917 | \$0 | \$443,076 |
| 2024 \$0 \$0 0.852 \$0 \$443, 2025 \$0 \$0 0.831 \$0 \$443, 2026 \$0 \$0 0.811 \$0 \$443, 2026 \$0 \$0 0.811 \$0 \$443, 2027 \$0 \$0 0.791 \$0 \$443, 2028 \$0 \$0 0.772 \$0 \$443, 2029 \$0 \$0 0.753 \$0 \$443, 2030 \$0 \$0 0.734 \$0 \$443, 2031 \$0 \$0 0.717 \$0 \$443, 2032 \$0 \$0 0.682 \$0 \$443, 2033 \$0 \$0 0.682 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.649 \$0 \$443, 2036 \$0 \$0 0.633 \$0 \$443, </td <td>2022</td> <td>\$0</td> <td>\$0</td> <td>0.895</td> <td>\$0</td> <td>\$443,076</td> | 2022 | \$0 | \$0 | 0.895 | \$0 | \$443,076 |
| 2025 \$0 \$0 0.831 \$0 \$443, 2026 \$0 \$0 0.811 \$0 \$443, 2027 \$0 \$0 0.791 \$0 \$443, 2028 \$0 \$0 0.791 \$0 \$443, 2029 \$0 \$0 0.772 \$0 \$443, 2030 \$0 \$0 0.753 \$0 \$443, 2030 \$0 \$0 0.734 \$0 \$443, 2030 \$0 \$0 0.717 \$0 \$443, 2031 \$0 \$0 0.717 \$0 \$443, 2032 \$0 \$0 0.682 \$0 \$443, 2033 \$0 \$0 0.682 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.633 \$0 \$443, 2036 \$0 \$0 0.618 \$0 \$443, </td <td>2023</td> <td>\$0</td> <td>\$0</td> <td>0.873</td> <td>\$0</td> <td>\$443,076</td> | 2023 | \$0 | \$0 | 0.873 | \$0 | \$443,076 |
| 2026 \$0 \$0 0.811 \$0 \$443, 2027 \$0 \$0 \$0 0.791 \$0 \$443, 2028 \$0 \$0 \$0 0.772 \$0 \$443, 2029 \$0 \$0 \$0 0.772 \$0 \$443, 2030 \$0 \$0 0.753 \$0 \$443, 2030 \$0 \$0 0.734 \$0 \$443, 2031 \$0 \$0 0.717 \$0 \$443, 2032 \$0 \$0 0.699 \$0 \$443, 2032 \$0 \$0 0.699 \$0 \$443, 2033 \$0 \$0 0.682 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.633 \$0 \$443, 2036 \$0 \$0 0.618 \$0 \$443, | 2024 | \$0 | \$0 | 0.852 | \$0 | \$443,076 |
| 2027 \$0 \$0 0.791 \$0 \$443, 2028 \$0 \$0 \$0 0.772 \$0 \$443, 2029 \$0 \$0 \$0 0.753 \$0 \$443, 2030 \$0 \$0 \$0 0.753 \$0 \$443, 2030 \$0 \$0 \$0 0.734 \$0 \$443, 2031 \$0 \$0 0.717 \$0 \$443, 2032 \$0 \$0 0.699 \$0 \$443, 2033 \$0 \$0 0.682 \$0 \$443, 2033 \$0 \$0 0.665 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.633 \$0 \$443, 2036 \$0 \$0 0.618 \$0 \$443, | 2025 | \$0 | \$0 | 0.831 | \$0 | \$443,076 |
| 2028 \$0 \$0 0.772 \$0 \$443, 2029 \$0 \$0 \$0 0.753 \$0 \$443, 2030 \$0 \$0 \$0 0.734 \$0 \$443, 2030 \$0 \$0 \$0 0.734 \$0 \$443, 2031 \$0 \$0 0.717 \$0 \$443, 2032 \$0 \$0 0.717 \$0 \$443, 2032 \$0 \$0 0.699 \$0 \$443, 2033 \$0 \$0 0.682 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.649 \$0 \$443, 2036 \$0 \$0 0.633 \$0 \$443, 2037 \$0 \$0 0.618 \$0 \$443, | 2026 | \$0 | \$0 | 0.811 | \$0 | \$443,076 |
| 2029 \$0 \$0 0.753 \$0 \$443, 2030 \$0 \$0 \$0 0.734 \$0 \$443, 2031 \$0 \$0 \$0 0.734 \$0 \$443, 2031 \$0 \$0 \$0 0.717 \$0 \$443, 2032 \$0 \$0 0.699 \$0 \$443, 2032 \$0 \$0 0.682 \$0 \$443, 2033 \$0 \$0 0.682 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.649 \$0 \$443, 2036 \$0 \$0 0.633 \$0 \$443, 2037 \$0 \$0 0.618 \$0 \$443, | 2027 | \$0 | \$0 | 0.791 | \$0 | \$443,076 |
| 2030 \$0 \$0 0.734 \$0 \$443, 2031 \$0 \$0 0.717 \$0 \$443, 2032 \$0 \$0 0.699 \$0 \$443, 2033 \$0 \$0 0.699 \$0 \$443, 2033 \$0 \$0 0.682 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.649 \$0 \$443, 2036 \$0 \$0 0.633 \$0 \$443, 2037 \$0 \$0 0.618 \$0 \$443, | 2028 | \$0 | \$0 | 0.772 | \$0 | \$443,076 |
| 2031 \$0 \$0 0.717 \$0 \$443, 2032 \$0 \$0 0.699 \$0 \$443, 2033 \$0 \$0 0.699 \$0 \$443, 2033 \$0 \$0 0.682 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.649 \$0 \$443, 2036 \$0 \$0 0.633 \$0 \$443, 2037 \$0 \$0 0.618 \$0 \$443, | 2029 | \$0 | \$0 | 0.753 | \$0 | \$443,076 |
| 2032 \$0 \$0 0.699 \$0 \$443, 2033 \$0 \$0 0.682 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.665 \$0 \$443, 2036 \$0 \$0 0.649 \$0 \$443, 2036 \$0 \$0 0.633 \$0 \$443, 2037 \$0 \$0 0.618 \$0 \$443, | 2030 | \$0 | \$0 | 0.734 | \$0 | \$443,076 |
| 2033 \$0 \$0 0.682 \$0 \$443, 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.649 \$0 \$443, 2036 \$0 \$0 0.633 \$0 \$443, 2037 \$0 \$0 0.633 \$0 \$443, | 2031 | \$0 | \$0 | 0.717 | \$0 | \$443,076 |
| 2034 \$0 \$0 0.665 \$0 \$443, 2035 \$0 \$0 0.649 \$0 \$443, 2036 \$0 \$0 0.633 \$0 \$443, 2037 \$0 \$0 0.633 \$0 \$443, | 2032 | \$0 | \$0 | 0.699 | \$0 | \$443,076 |
| 2035 \$0 \$0 0.649 \$0 \$443, 2036 \$0 \$0 0.633 \$0 \$443, 2037 \$0 \$0 0.618 \$0 \$443, | 2033 | \$0 | \$0 | 0.682 | \$0 | \$443,076 |
| 2036 \$0 \$0 0.633 \$0 \$443, 2037 \$0 \$0 0.618 \$0 \$443, | 2034 | \$0 | \$0 | 0.665 | \$0 | \$443,076 |
| 2037 \$0 \$0 0.618 \$0 \$443, | 2035 | \$0 | \$0 | 0.649 | \$0 | \$443,076 |
| | 2036 | \$0 | \$0 | 0.633 | \$0 | \$443,076 |
| %NPV 100.00% | 2037 | \$0 | \$0 | 0.618 | \$0 | \$443,076 |
| | %NPV | 100.00% | | | | |
| \$443,076 | | \$443 , 076 | | | | |
| Discounting Convention M-O-Y | - | М-О-У | | | | |
| Inflation No Inflation Schedule | | No Inflation | | | | |
| Category / Non-Recurring Residual Costs Schedule | Residual | - | | | | |

Alternative: Other DOD or Federal Agency

| Year | Other DOD or Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$448,580 | \$448,580 | 0.988 | \$443,076 | \$443,076 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$443,076 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$443,076 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$443,076 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$443,076 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$443,076 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$443,076 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$443,076 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$443,076 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$443,076 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$443,076 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$443,076 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$443,076 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$443,076 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$443,076 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$443,076 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$443,076 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$443,076 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$443,076 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$443,076 |
| %NPV | 100.00% | | | | |
| | \$443 , 076 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Discourt Data | . 0 E 0 | | | | |

Alternative: Caretaker Status

| Year | Caretaker Status | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|---------------------|---------------------------|----------------------------|--|------------------|
| 2018 | \$2,691 | \$0 | \$2,691 | 0.988 | \$2,658 |
| 2019 | \$2,691 | \$0 | \$2,691 | 0.964 | \$2,593 |
| 2020 | \$2,691 | \$0 | \$2 , 691 | 0.94 | \$2,530 |
| 2021 | \$2,691 | \$0 | \$2,691 | 0.917 | \$2,468 |
| 2022 | \$2,691 | \$0 | \$2 , 691 | 0.895 | \$2,408 |
| 2023 | \$2,691 | \$0 | \$2,691 | 0.873 | \$2,349 |
| 2024 | \$2,691 | \$0 | \$2 , 691 | 0.852 | \$2,292 |
| 2025 | \$2,691 | \$0 | \$2,691 | 0.831 | \$2,236 |
| 2026 | \$2,691 | \$0 | \$2,691 | 0.811 | \$2,182 |
| 2027 | \$2,691 | \$0 | \$2,691 | 0.791 | \$2,128 |
| 2028 | \$2,691 | \$0 | \$2,691 | 0.772 | \$2,076 |
| 2029 | \$2,691 | \$0 | \$2,691 | 0.753 | \$2,026 |
| 2030 | \$2,691 | \$0 | \$2,691 | 0.734 | \$1,976 |
| 2031 | \$2,691 | \$0 | \$2,691 | 0.717 | \$1,928 |
| 2032 | \$2,691 | \$0 | \$2,691 | 0.699 | \$1,881 |
| 2033 | \$2,691 | \$0 | \$2,691 | 0.682 | \$1,835 |
| 2034 | \$2,691 | \$0 | \$2,691 | 0.665 | \$1,790 |
| 2035 | \$2,691 | \$0 | \$2,691 | 0.649 | \$1,747 |
| 2036 | \$2,691 | \$0 | \$2,691 | 0.633 | \$1,704 |
| 2037 | \$2,691 | \$0 | \$2 , 691 | 0.618 | \$1 , 663 |
| %NPV | 100.00% | 0.00% | | | |
| | \$42,472 | \$0 | | | |
| Discounting Convention | М-О-У | М-О-У | | | |
| Inflation Schedule | No Inflation | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$2,658 | |
| 2019 | \$5,251 | |
| 2020 | \$7,781 | |
| 2021 | \$10,249 | |
| 2022 | \$12,657 | |
| 2023 | \$15,007 | |
| 2024 | \$17,298 | |
| 2025 | \$19,535 | |
| 2026 | \$21,716 | |
| 2027 | \$23,844 | |
| 2028 | \$25,921 | |
| 2029 | \$27,947 | |
| 2030 | \$29,923 | |
| 2031 | \$31,851 | |
| 2032 | \$33,732 | |
| 2033 | \$35 , 567 | |
| 2034 | \$37 , 358 | |
| 2035 | \$39,105 | |
| 2036 | \$40,809 | |
| 2037 | \$42,472 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

\$10*8,156 = \$81,560

- 2. Renovation/Conversion
 - a. Renovation/ Conversion

To be made practical, this building would require total renovation to include repairing

or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*8,156 = \$448,580.

- 3. Other DOD or Federal Agency
 - a. Other DOD or Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*8,156 = \$448,580.

Due to the location, lack of parking, and the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

4. Caretaker Status

a. Caretaker Status

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the

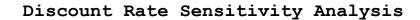
building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the

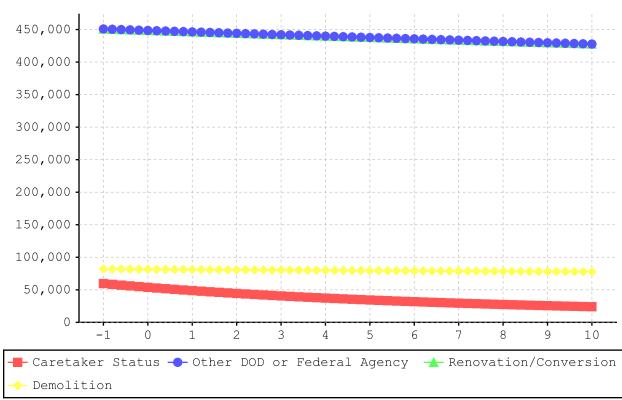
facility will still require major renovation to be made functional.

b. Renovation/ Conversion

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred

at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.





NPV rankings change at the following discount rates: No changes Graph of Net Present Value vs. Discount Rate

Discount Rate (%)

Dollars

NPV rankings change at the following discount rates: No changes

| Discount Rate = | -1.0% | Discount Rate = | 0.6% |
|---|---|---|--|
| Caretaker Status | \$ 59 , 610 | Caretaker Status | \$ 50 , 725 |
| Demolition | \$ 81,971 | Demolition | \$ 81,316 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 447,240 |
| Renovation/Conversion | \$ 450,840 | Renovation/Conversion | \$ 447,240 |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Caretaker Status | \$ 58,384 | Caretaker Status | \$ 49,750 |
| Demolition | \$ 81,888 | Demolition | \$ 81,236 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 446,796 |
| Renovation/Conversion | \$ 450,385 | Renovation/Conversion | \$ 446,796 |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Caretaker Status | \$ 57 , 193 | Caretaker Status | \$ 48,803 |
| Demolition | \$ 81,806 | Demolition | \$ 81,155 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 446,354 |
| Renovation/Conversion | \$ 449,932 | Renovation/Conversion | \$ 446,354 |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Caretaker Status | \$ 56,036 | Caretaker Status | \$ 47,881 |
| Demolition | \$ 81,724 | Demolition | \$ 81,075 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | \$ 445,913 |
| Renovation/Conversion | \$ 449,480 | Renovation/Conversion | \$ 445,913 |
| | | | |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Discount Rate = Caretaker Status | \$ 54,912 | Discount Rate = Caretaker Status | \$ 46,985 |
| Caretaker Status Demolition | \$ 54,912 \$ 81,642 | Caretaker Status Demolition | \$ 46,985 \$ 80,995 |
| Caretaker Status Demolition Other DOD or Federal Agency | \$ 54,912 \$ 81,642 \$ 449,029 | Caretaker Status Demolition Other DOD or Federal Agency | \$ 46,985 \$ 80,995 \$ 445,473 |
| Caretaker Status Demolition | \$ 54,912 \$ 81,642 | Caretaker Status Demolition | \$ 46,985 \$ 80,995 |
| Caretaker Status Demolition Other DOD or Federal Agency | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 | Caretaker Status Demolition Other DOD or Federal Agency | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 \$ 445,034 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 \$ 448,580 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 \$ 445,034 \$ 445,034 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 \$ 448,580 \$ 448,580 \$ 0.2% \$ 52,759 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 \$ 445,034 \$ 445,034 \$ 445,034 1.8% \$ 45,265 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 \$ 448,580 \$ 448,580 \$ 52,759 \$ 81,479 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 \$ 445,034 \$ 445,034 \$ 445,034 1.8% \$ 45,265 \$ 80,836 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 \$ 448,580 \$ 448,580 0.2% \$ 52,759 \$ 81,479 \$ 448,132 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 \$ 445,034 \$ 445,034 1.8% \$ 45,265 \$ 80,836 \$ 444,596 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 \$ 448,580 \$ 448,580 0.2% \$ 52,759 \$ 81,479 \$ 448,132 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 \$ 445,034 \$ 445,034 \$ 445,034 1.8% \$ 45,265 \$ 80,836 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 \$ 448,580 \$ 448,580 \$ 448,580 \$ 52,759 \$ 81,479 \$ 448,132 \$ 448,132 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 \$ 445,034 \$ 445,034 1.8% \$ 45,265 \$ 80,836 \$ 444,596 \$ 444,596 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 \$ 448,580 0.2% \$ 52,759 \$ 81,479 \$ 448,132 \$ 448,132 \$ 448,132 \$ 448,132 \$ 51,728 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 \$ 445,034 \$ 445,034 1.8% \$ 45,265 \$ 80,836 \$ 444,596 \$ 444,596 \$ 444,596 \$ 444,440 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 \$ 448,580 \$ 448,580 0.2% \$ 52,759 \$ 81,479 \$ 448,132 \$ 448,132 \$ 448,132 \$ 448,132 \$ 51,728 \$ 81,397 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 \$ 445,034 \$ 445,034 1.8% \$ 45,265 \$ 80,836 \$ 444,596 \$ 444,596 \$ 444,596 \$ 444,596 \$ 444,596 \$ 444,596 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 54,912 \$ 81,642 \$ 449,029 \$ 449,029 \$ 449,029 -0.0% \$ 53,820 \$ 81,560 \$ 448,580 \$ 448,580 \$ 448,580 \$ 0.2% \$ 52,759 \$ 81,479 \$ 448,132 \$ 448,132 \$ 448,132 \$ 54,912 \$ 51,728 \$ 81,397 \$ 447,686 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 46,985 \$ 80,995 \$ 445,473 \$ 445,473 1.6% \$ 46,113 \$ 80,915 \$ 445,034 \$ 445,034 1.8% \$ 45,265 \$ 80,836 \$ 444,596 \$ 444,596 \$ 444,596 \$ 444,440 |

NPV rankings change at the following discount rates: No changes

| Discount Rate = | 2.2% | Discount Rate = | 3.8% |
|--|--|---|--|
| Caretaker Status | \$ 43,636 | Caretaker Status | \$ 37 , 929 |
| Demolition | \$ 80,677 | Demolition | \$ 80,053 |
| Other DOD or Federal Agency | \$ 443,726 | Other DOD or Federal Agency | \$ 440,292 |
| Renovation/Conversion | \$ 443,726 | Renovation/Conversion | \$ 440,292 |
| | | | |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Caretaker Status | \$ 42,855 | Caretaker Status | \$ 37,296 |
| Demolition | \$ 80,599 | Demolition | \$ 79 , 976 |
| Other DOD or Federal Agency | \$ 443,292 | Other DOD or Federal Agency | \$ 439,869 |
| Renovation/Conversion | \$ 443,292 | Renovation/Conversion | \$ 439,869 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Caretaker Status | \$ 42,094 | Caretaker Status | \$ 36,679 |
| Demolition | \$ 80,520 | Demolition | \$ 79 , 899 |
| Other DOD or Federal Agency | \$ 442,860 | Other DOD or Federal Agency | \$ 439,447 |
| Renovation/Conversion | \$ 442,860 | Renovation/Conversion | \$ 439,447 |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Caretaker Status | \$ 41,353 | Caretaker Status | \$ 36,078 |
| Demolition | \$ 80,442 | Demolition | \$ 79 , 823 |
| Other DOD or Federal Agency | \$ 442,429 | Other DOD or Federal Agency | \$ 439,025 |
| Renovation/Conversion | \$ 442,429 | Renovation/Conversion | \$ 439,025 |
| | | | |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| Discount Rate = Caretaker Status | 3.0% \$ 40,631 | Discount Rate = Caretaker Status | 4.6% \$ 35,492 |
| | | | |
| Caretaker Status | \$ 40,631 | Caretaker Status | \$ 35,492 |
| Caretaker Status Demolition | \$ 40,631 \$ 80,363 | Caretaker Status Demolition | \$ 35,492 \$ 79,746 |
| Caretaker Status Demolition Other DOD or Federal Agency | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 | Caretaker Status Demolition Other DOD or Federal Agency | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 \$ 438,187 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 \$ 441,571 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 \$ 441,571 \$ 441,571 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 \$ 438,187 \$ 438,187 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 \$ 441,571 \$ 441,571 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 \$ 438,187 \$ 438,187 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 \$ 441,571 \$ 441,571 \$ 441,571 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 \$ 438,187 \$ 438,187 \$ 438,187 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 \$ 441,571 \$ 441,571 \$ 441,571 3.4% \$ 39,245 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 \$ 438,187 \$ 438,187 \$ 438,187 \$ 438,187 \$ 438,187 \$ 438,187 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 \$ 441,571 \$ 441,571 3.4% \$ 39,245 \$ 80,208 \$ 441,143 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 \$ 438,187 \$ 438,187 \$ 438,187 \$ 438,187 \$ 5.0% \$ 34,364 \$ 79,594 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 \$ 441,571 \$ 441,571 3.4% \$ 39,245 \$ 80,208 \$ 441,143 \$ 441,143 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 \$ 438,187 \$ 438,187 \$ 438,187 5.0% \$ 34,364 \$ 79,594 \$ 437,769 \$ 437,769 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 \$ 441,571 \$ 441,571 3.4% \$ 39,245 \$ 80,208 \$ 441,143 \$ 441,143 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 \$ 438,187 \$ 438,187 \$ 438,187 \$ 438,187 \$ 438,187 \$ 437,769 \$ 437,769 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 \$ 441,571 \$ 441,571 3.4% \$ 39,245 \$ 80,208 \$ 441,143 \$ 441,143 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 \$ 438,187 \$ 438,187 \$ 438,187 \$ 438,187 \$ 438,187 \$ 438,187 \$ 437,769 \$ 437,769 \$ 437,769 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 40,631 \$ 80,363 \$ 441,999 \$ 441,999 3.2% \$ 39,929 \$ 80,286 \$ 441,571 \$ 441,571 3.4% \$ 39,245 \$ 80,208 \$ 441,143 \$ 441,143 \$ 441,143 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 35,492 \$ 79,746 \$ 438,605 \$ 438,605 4.8% \$ 34,921 \$ 79,670 \$ 438,187 \$ 438,187 \$ 438,187 5.0% \$ 34,364 \$ 79,594 \$ 437,769 \$ 437,769 \$ 437,769 \$ 437,769 |

NPV rankings change at the following discount rates: No changes

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|---|---|---|---|
| Caretaker Status | \$ 33,291 | Caretaker Status | \$ 29,489 |
| Demolition | \$ 79,443 | Demolition | \$ 78,847 |
| Other DOD or Federal Agency | \$ 436,938 | Other DOD or Federal Agency | \$ 433,659 |
| Renovation/Conversion | \$ 436,938 | Renovation/Conversion | \$ 433,659 |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Caretaker Status | \$ 32,774 | Caretaker Status | \$ 29,064 |
| Demolition | \$ 79 , 368 | Demolition | \$ 78,773 |
| Other DOD or Federal Agency | \$ 436,524 | Other DOD or Federal Agency | \$ 433,254 |
| Renovation/Conversion | \$ 436,524 | Renovation/Conversion | \$ 433,254 |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Caretaker Status | \$ 32,270 | Caretaker Status | \$ 28,648 |
| Demolition | \$ 79,293 | Demolition | \$ 78,700 |
| Other DOD or Federal Agency | \$ 436,111 | Other DOD or Federal Agency | \$ 432,850 |
| Renovation/Conversion | \$ 436,111 | Renovation/Conversion | \$ 432,850 |
| Discount Rate = | 6.0% | Discount Rate = | 7.6% |
| Caretaker Status | \$ 31 , 778 | Caretaker Status | \$ 28,242 |
| Demolition | \$ 79,218 | Demolition | \$ 78,627 |
| Other DOD or Federal Agency | \$ 435,699 | Other DOD or Federal Agency | \$ 432,448 |
| Renovation/Conversion | \$ 435,699 | Renovation/Conversion | \$ 432,448 |
| | | | |
| Discount Rate = | 6.2% | Discount Rate = | 7.8% |
| Caretaker Status | \$ 31,298 | Caretaker Status | \$ 27,845 |
| Caretaker Status Demolition | \$ 31,298 \$ 79,143 | Caretaker Status Demolition | \$ 27,845 \$ 78,554 |
| Caretaker Status Demolition Other DOD or Federal Agency | \$ 31,298 \$ 79,143 \$ 435,289 | Caretaker Status Demolition Other DOD or Federal Agency | \$ 27,845 \$ 78,554 \$ 432,047 |
| Caretaker Status Demolition | \$ 31,298 \$ 79,143 | Caretaker Status Demolition | \$ 27,845 \$ 78,554 |
| Caretaker Status Demolition Other DOD or Federal Agency | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 | Caretaker Status Demolition Other DOD or Federal Agency | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 \$ 431,646 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 \$ 434,880 \$ 434,880 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 \$ 431,646 \$ 431,646 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 \$ 434,880 \$ 434,880 \$ 434,880 \$ 30,372 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 \$ 431,646 \$ 431,646 8.2% \$ 27,078 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 \$ 434,880 \$ 434,880 6.6% \$ 30,372 \$ 78,995 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 \$ 431,646 \$ 431,646 8.2% \$ 27,078 \$ 78,409 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 \$ 434,880 \$ 434,880 6.6% \$ 30,372 \$ 78,995 \$ 434,472 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 \$ 431,646 \$ 431,646 8.2% \$ 27,078 \$ 78,409 \$ 431,247 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 \$ 434,880 \$ 434,880 6.6% \$ 30,372 \$ 78,995 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 \$ 431,646 \$ 431,646 8.2% \$ 27,078 \$ 78,409 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 \$ 434,880 6.6% \$ 30,372 \$ 78,995 \$ 434,472 \$ 434,472 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 \$ 431,646 \$ 431,646 8.2% \$ 27,078 \$ 78,409 \$ 431,247 \$ 431,247 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 \$ 434,880 6.6% \$ 30,372 \$ 78,995 \$ 434,472 \$ 434,472 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 \$ 431,646 \$ 431,646 8.2% \$ 27,078 \$ 78,409 \$ 431,247 \$ 431,247 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 \$ 434,880 \$ 434,880 6.6% \$ 30,372 \$ 78,995 \$ 434,472 \$ 434,472 \$ 434,472 \$ 434,472 \$ 434,472 \$ 434,272 \$ 78,995 \$ 434,272 \$ 78,995 \$ 78,921 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 \$ 431,646 \$ 431,646 8.2% \$ 27,078 \$ 431,247 \$ 431,247 \$ 431,247 \$ 431,247 \$ 431,247 \$ 431,247 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 31,298 \$ 79,143 \$ 435,289 \$ 435,289 6.4% \$ 30,829 \$ 79,069 \$ 434,880 \$ 434,880 6.6% \$ 30,372 \$ 78,995 \$ 434,472 \$ 434,472 \$ 434,472 \$ 434,472 \$ 434,472 \$ 434,472 | Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 27,845 \$ 78,554 \$ 432,047 \$ 432,047 8.0% \$ 27,457 \$ 78,481 \$ 431,646 \$ 431,646 8.2% \$ 27,078 \$ 78,409 \$ 431,247 \$ 431,247 \$ 431,247 \$ 431,247 |

NPV rankings change at the following discount rates: No changes

Table of Net Present Values for each Discount Rate

Discount Rate = 8.6%

| Discount Rate = | = 8.6% |
|---|---|
| Caretaker Status | \$ 26,346 |
| Demolition | \$ 78,264 |
| Other DOD or Federal Agency | \$ 430,452 |
| | |
| Renovation/Conversion | \$ 430,452 |
| | |
| Discount Rate = | = 8.8% |
| Caretaker Status | \$ 25,992 |
| Demolition | \$ 78,192 |
| Other DOD or Federal Agency | \$ 430,056 |
| Renovation/Conversion | |
| Renovation/Conversion | \$ 430,056 |
| | |
| Discount Rate = | = 9.0% |
| Caretaker Status | \$ 25,647 |
| Demolition | \$ 78,120 |
| Other DOD or Federal Agency | |
| 5 1 | \$ 429,662 |
| Renovation/Conversion | \$ 429,662 |
| | |
| Discount Rate = | = 9.2% |
| Caretaker Status | \$ 25,308 |
| Demolition | \$ 78,049 |
| | |
| Other DOD or Federal Agency | \$ 429,268 |
| Renovation/Conversion | \$ 429,268 |
| | |
| Discount Rate = | = 9.4% |
| Caretaker Status | \$ 24,978 |
| Demolition | \$ 77 , 977 |
| | \$ 428,876 |
| Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 428,876 |
| | · · · · · |
| | |
| Discount Rate = | |
| | = 9.6% |
| Caretaker Status | = 9.6% \$ 24,654 |
| Caretaker Status Demolition | = 9.6% \$ 24,654 \$ 77,906 |
| Caretaker Status Demolition Other DOD or Federal Agency | = 9.6% \$ 24,654 \$ 77,906 \$ 428,484 |
| Caretaker Status Demolition | = 9.6% \$ 24,654 \$ 77,906 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion | = 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 |
| Caretaker Status Demolition Other DOD or Federal Agency | = 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 \$ 9.8%</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338 \$ 77,835</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338 \$ 77,835 \$ 428,094</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338 \$ 77,835</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338 \$ 77,835 \$ 428,094</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338 \$ 77,835 \$ 428,094 \$ 428,094</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338 \$ 77,835 \$ 428,094 \$ 428,094 = 10.0%</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338 \$ 77,835 \$ 428,094 \$ 428,094 = 10.0% \$ 24,028</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338 \$ 77,835 \$ 428,094 \$ 428,094 \$ 428,094 \$ 428,094 \$ 428,094</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338 \$ 77,835 \$ 428,094 \$ 428,094 \$ 428,094 \$ 428,094 \$ 428,094</pre> |
| Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition Other DOD or Federal Agency Renovation/Conversion Discount Rate = Caretaker Status Demolition | <pre>= 9.6% \$ 24,654 \$ 77,906 \$ 428,484 \$ 428,484 = 9.8% \$ 24,338 \$ 77,835 \$ 428,094 \$ 428,094 \$ 428,094 \$ 428,094 \$ 428,094</pre> |

Date Generated: 12 June 2018 Time Generated: 12.45.10 Version: ECONPACK 4.0.32

Building 1836 Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|---|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | :To determine the most economical course of action for Building 1836 that meets the EXORD requirement to reduce excess installation square footage. |

Background:

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Building 1836 has been identified as a facility for disposal per HQDA EXORD 164-15. This building is 2,998 square feet and the current Design Category Code is 61050, General Administration Facility. For the installation, there is currently an excess of 500K sf for this cat code.

Alternatives Considered for this Analysis:

Status Quo (Current Operations) - This option retains Building 1836 as a General Admin building (CC6150). This facility is currently unoccupied and no longer needed for this purpose because of the excess in general admin space. Maintaining this facility in its current category code does not meet the intent of EXORD 164-15 and therefore is not a viable alternative. This alternative is nonviable.

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 2,998*10=\$29,880. This is a viable alternative. This is a viable alternative.

Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current configuration, is to use it for Category Code 17120, General Instruction Building. To be made practical, this building would require renovation/ conversion to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and/or other systems. Estimated cost for the alternative is \$55/sf or 2,998*55 = \$164,890. Conversion of this facility into CC 17120 would meet the intent of the Exord since there is currently is a deficit in the General Instruction Building category code. This is a viable alternative. This is a viable alternative.

Other DOD or Federal Agency Use - This alternative offers the building to another DOD or federal agency. With this alternative the building can remain in its current configuration as a general purpose admin facility or be converted for another use. This alternative would meet the intent of the Exord by removing the building from Fort Benning's inventory. However, it will still require renovation/repair to systems such as roofing, flooring, plumbing, electrical, communications, and/or other systems. The agency taking control of the building would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative for use by the army - \$55*853=\$164,890. This alternative is viable.

This is a viable alternative.

Care Taker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

Economic Indicators:

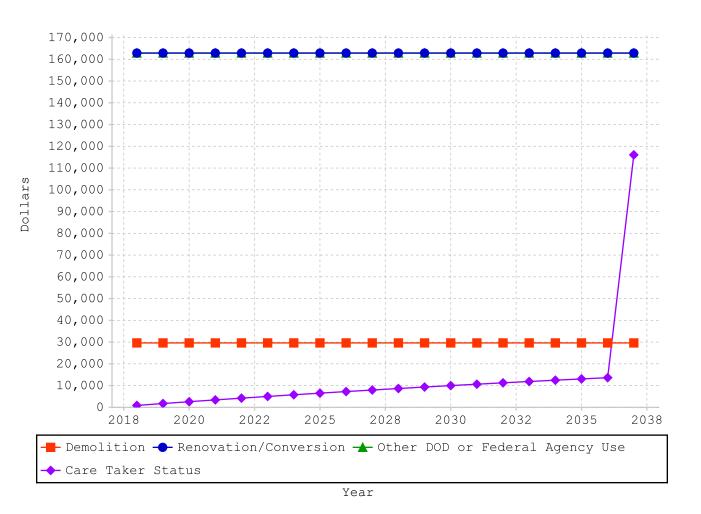
| Alternative | NPV |
|---------------------------------|---------------------|
| Demolition | \$ 29,612 |
| Renovation/Conversion | \$ 162 , 867 |
| Other DOD or Federal Agency Use | \$ 162 , 867 |
| Care Taker Status | \$ 116,066 |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units.

However, another Federal Agency has expressed interest in using the building for training and/or admin purposes. This alternative is viable and is being pursued. This course of action will be implemented if details such as lease terms and renovation requirements can be agreed upon. Otherwise, since there are no other DOD or federal agencies interested in the facility, demolition will be the most economical alternative.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | : Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

4

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$29,980 | \$29 , 980 | 0.988 | \$29,612 | \$29,612 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$29,612 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$29,612 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$29,612 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$29,612 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$29,612 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$29 , 612 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$29,612 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$29,612 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$29,612 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$29,612 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$29,612 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$29 , 612 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$29,612 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$29 , 612 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$29,612 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$29,612 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$29,612 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$29 , 612 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$29,612 |
| %NPV | 100.00% | | | | |
| | \$29 , 612 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | 0 50 | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|--------------------|------------------------------------|
| 2018 | \$164,890 | \$164,890 | 0.988 | \$162 , 867 | \$162 , 867 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$162,867 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$162,867 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$162,867 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$162 , 867 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$162,867 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$162,867 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$162,867 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$162,867 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$162,867 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$162 , 867 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$162,867 |
| 2030 | \$ O | \$0 | 0.734 | \$0 | \$162,867 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$162,867 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$162 , 867 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$162,867 |
| 2034 | \$ O | \$0 | 0.665 | \$0 | \$162,867 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$162,867 |
| 2036 | \$ O | \$0 | 0.633 | \$0 | \$162,867 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$162,867 |
| %NPV | 100.00% | | | | |
| | \$162 , 867 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| Diagount Data. | 2 5% | | | | |

Alternative: Other DOD or Federal Agency Use

| | Renovation for another DOD or Federal Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|--|----------------------------|--|--------------------|------------------------------------|
| 2018 | \$164,890 | \$164,890 | 0.988 | \$162 , 867 | \$162,867 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$162,867 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$162,867 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$162,867 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$162,867 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$162,867 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$162,867 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$162,867 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$162,867 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$162,867 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$162,867 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$162,867 |
| 2030 | \$O | \$0 | 0.734 | \$0 | \$162,867 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$162,867 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$162,867 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$162,867 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$162,867 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$162,867 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$162,867 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$162,867 |
| %NPV | 100.00% | | | | |
| | \$162 , 867 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Recurring Costs | | | | |
| Discount Bate | • 2 5% | | | | |

Alternative: Care Taker Status

| Year | Caretaker Status | Renovation | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|---------------------|------------------------|----------------------------|--|------------------|
| 2018 | \$899 | \$0 | \$899 | 0.988 | \$888 |
| 2019 | \$899 | \$0 | \$899 | 0.964 | \$866 |
| 2020 | \$899 | \$0 | \$899 | 0.94 | \$845 |
| 2021 | \$899 | \$0 | \$899 | 0.917 | \$825 |
| 2022 | \$899 | \$0 | \$899 | 0.895 | \$804 |
| 2023 | \$899 | \$0 | \$899 | 0.873 | \$785 |
| 2024 | \$899 | \$O | \$899 | 0.852 | \$766 |
| 2025 | \$899 | \$0 | \$899 | 0.831 | \$747 |
| 2026 | \$899 | \$0 | \$899 | 0.811 | \$729 |
| 2027 | \$899 | \$0 | \$899 | 0.791 | \$711 |
| 2028 | \$899 | \$0 | \$899 | 0.772 | \$694 |
| 2029 | \$899 | \$0 | \$899 | 0.753 | \$677 |
| 2030 | \$899 | \$0 | \$899 | 0.734 | \$660 |
| 2031 | \$899 | \$0 | \$899 | 0.717 | \$644 |
| 2032 | \$899 | \$0 | \$899 | 0.699 | \$628 |
| 2033 | \$899 | \$0 | \$899 | 0.682 | \$613 |
| 2034 | \$899 | \$0 | \$899 | 0.665 | \$598 |
| 2035 | \$899 | \$0 | \$899 | 0.649 | \$584 |
| 2036 | \$899 | \$0 | \$899 | 0.633 | \$569 |
| 2037 | \$899 | \$164,890 | \$165 , 789 | 0.618 | \$102,433 |
| %NPV | 12.22% | 87.78% | | | |
| | \$14,189 | \$101 , 878 | | | |
| Discounting Convention | М-О-Ү | М-О-Ү | | | |
| Inflation Schedule | No Inflation | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Non-Recurring Costs | | | |

Alternative: Care Taker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$888 | |
| 2019 | \$1,754 | |
| 2020 | \$2,599 | |
| 2021 | \$3,424 | |
| 2022 | \$4,228 | |
| 2023 | \$5,013 | |
| 2024 | \$5 , 779 | |
| 2025 | \$6,526 | |
| 2026 | \$7 , 255 | |
| 2027 | \$7 , 966 | |
| 2028 | \$8,660 | |
| 2029 | \$9,336 | |
| 2030 | \$9 , 997 | |
| 2031 | \$10,641 | |
| 2032 | \$11,269 | |
| 2033 | \$11,882 | |
| 2034 | \$12,480 | |
| 2035 | \$13,064 | |
| 2036 | \$13,633 | |
| 2037 | \$116,066 | |

Sources and Derivations:

1. Demolition a. Demolition

Estimated demolition cost is \$10/sf.

2,998*10 = \$29,980

2. Renovation/Conversion

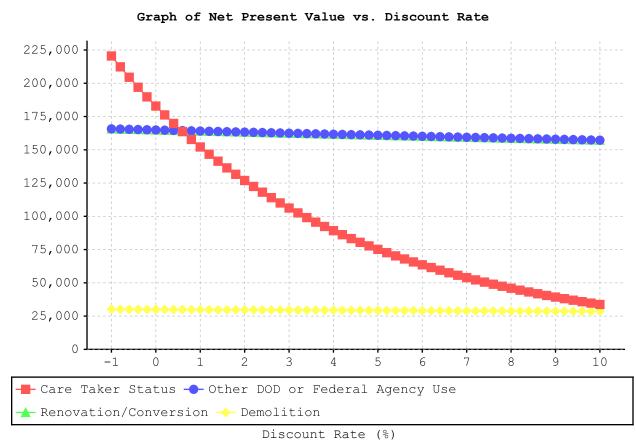
a. Renovation/ Conversion The estimated renovation/conversion cost of this alternative is \$55/sf.

- 3. Other DOD or Federal Agency Use
 - a. Renovation for another DOD or Federal Agency The estimated renovation/conversion cost of this alternative is \$55/sf.
- 4. Care Taker Status
 - a. Caretaker Status

The current cost of maintaining a facility in a caretaker status is \$0.33/sf.

b. Renovation

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred at the end of the caretaker status period.



NPV rankings change at the following discount rates: 0.5 %

Dollars

NPV rankings change at the following discount rates: 0.5 $\ensuremath{\$}$

| | et flesent valu | es for each biscount Rate | |
|-----------------------------|---------------------|-----------------------------|---------------------|
| Discount Rate = | -1.0% | Discount Rate = | 0.6% |
| Demolition | \$ 30,131 | Demolition | \$ 29,890 |
| Other DOD or Federal Agency | \$ 165,721 | Care Taker Status | \$ 163,681 |
| Renovation/Conversion | \$ 165 , 721 | Other DOD or Federal Agency | \$ 164,398 |
| Care Taker Status | \$ 220,504 | Renovation/Conversion | \$ 164,398 |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Demolition | \$ 30,101 | Demolition | \$ 29,861 |
| Other DOD or Federal Agency | \$ 165,554 | Care Taker Status | \$ 157,781 |
| Renovation/Conversion | \$ 165,554 | Other DOD or Federal Agency | \$ 164,234 |
| Care Taker Status | \$ 212,353 | Renovation/Conversion | \$ 164,234 |
| | | | · · · |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Demolition | \$ 30,070 | Demolition | \$ 29,831 |
| Other DOD or Federal Agency | \$ 165,387 | Care Taker Status | \$ 152,113 |
| Renovation/Conversion | \$ 165,387 | Other DOD or Federal Agency | \$ 164,072 |
| Care Taker Status | \$ 204 , 528 | Renovation/Conversion | \$ 164,072 |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Demolition | \$ 30,040 | Demolition | \$ 29,802 |
| Other DOD or Federal Agency | \$ 165,221 | Care Taker Status | \$ 146,666 |
| Renovation/Conversion | \$ 165,221 | Other DOD or Federal Agency | \$ 163 , 909 |
| Care Taker Status | \$ 197,014 | Renovation/Conversion | \$ 163,909 |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Demolition | \$ 30,010 | Demolition | \$ 29 , 772 |
| Other DOD or Federal Agency | \$ 165,055 | Care Taker Status | \$ 141,431 |
| Renovation/Conversion | \$ 165,055 | Other DOD or Federal Agency | \$ 163 , 748 |
| Care Taker Status | \$ 189,799 | Renovation/Conversion | \$ 163,748 |
| Discount Rate = | -0.0% | Discount Rate = | 1.6% |
| Demolition | \$ 29,980 | Demolition | \$ 29,743 |
| Other DOD or Federal Agency | \$ 164,890 | Care Taker Status | \$ 136 , 400 |
| Renovation/Conversion | \$ 164,890 | Other DOD or Federal Agency | \$ 163,587 |
| Care Taker Status | \$ 182,870 | Renovation/Conversion | \$ 163,587 |
| Discount Rate = | 0.2% | Discount Rate = | 1.8% |
| Demolition | \$ 29 , 950 | Demolition | \$ 29,714 |
| Other DOD or Federal Agency | \$ 164,725 | Care Taker Status | \$ 131,565 |
| Renovation/Conversion | \$ 164 , 725 | Other DOD or Federal Agency | \$ 163 , 426 |
| Care Taker Status | \$ 176,215 | Renovation/Conversion | \$ 163,426 |
| Discount Rate = | 0.4% | Discount Rate = | 2.0% |
| Demolition | \$ 29,920 | Demolition | \$ 29,685 |
| Other DOD or Federal Agency | \$ 164,561 | Care Taker Status | \$ 126,917 |
| Renovation/Conversion | \$ 164,561 | Other DOD or Federal Agency | \$ 163,265 |
| Care Taker Status | \$ 169,822 | Renovation/Conversion | \$ 163,265 |
| | | | |

NPV rankings change at the following discount rates: 0.5 $\ensuremath{\$}$

| Discount Rate = | 2.2% | Discount Rate = | 3.8% |
|--|--|--|--|
| Demolition | \$ 29,656 | Demolition | \$ 29 , 426 |
| Care Taker Status | \$ 122,448 | Care Taker Status | \$ 92,350 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 163,106 | Renovation/Conversion | \$ 161,844 |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Demolition | \$ 29,627 | Demolition | \$ 29,398 |
| Care Taker Status | \$ 118,152 | Care Taker Status | \$ 89,204 |
| Other DOD or Federal Agency | | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 162,946 | Renovation/Conversion | \$ 161,688 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Demolition | \$ 29,598 | Demolition | \$ 29 , 370 |
| Care Taker Status | \$ 114,021 | Care Taker Status | \$ 86 , 176 |
| Other DOD or Federal Agency | \$ 162,787 | Other DOD or Federal Agency | |
| Renovation/Conversion | \$ 162 , 787 | Renovation/Conversion | \$ 161,533 |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Demolition | \$ 29,569 | Demolition | \$ 29,341 |
| Care Taker Status | \$ 110,049 | Care Taker Status | \$ 83,262 |
| Other DOD or Federal Agency \$ 162,629 Other DOD or Federal | | Other DOD or Federal Agency | |
| Renovation/Conversion | Renovation/Conversion \$ 162,629 Renovation/Conversion | | \$ 161,378 |
| | | | |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| Discount Rate = | \$ 29,540 | Discount Rate = | \$ 29,313 |
| Demolition Care Taker Status | \$ 29,540 \$ 106,229 | Demolition Care Taker Status | \$ 29,313 \$ 80,457 |
| Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,540 \$ 106,229 \$ 162,471 | Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,313 \$ 80,457 \$ 161,224 |
| Demolition Care Taker Status | \$ 29,540 \$ 106,229 | Demolition Care Taker Status | \$ 29,313 \$ 80,457 |
| Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 | Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 \$ 161,070 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 \$ 162,313 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 \$ 161,070 \$ 161,070 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 \$ 162,313 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 \$ 161,070 \$ 161,070 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 \$ 162,313 3.4% \$ 29,483 \$ 99,021 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 \$ 161,070 \$ 161,070 \$ 161,070 \$ 161,070 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 \$ 162,313 3.4% \$ 29,483 \$ 99,021 \$ 162,156 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 \$ 161,070 \$ 161,070 5.0% \$ 29,257 \$ 75,160 \$ 160,916 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 \$ 162,313 3.4% \$ 29,483 \$ 99,021 \$ 162,156 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 \$ 161,070 \$ 161,070 \$ 161,070 5.0% \$ 29,257 \$ 75,160 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 \$ 162,313 3.4% \$ 29,483 \$ 99,021 \$ 162,156 \$ 162,156 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 \$ 161,070 \$ 161,070 5.0% \$ 29,257 \$ 75,160 \$ 160,916 \$ 160,916 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 \$ 162,313 3.4% \$ 29,483 \$ 99,021 \$ 162,156 \$ 162,156 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 \$ 161,070 \$ 161,070 5.0% \$ 29,257 \$ 75,160 \$ 160,916 \$ 160,916 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 \$ 162,313 3.4% \$ 29,483 \$ 99,021 \$ 162,156 \$ 162,156 \$ 162,156 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 \$ 161,070 \$ 161,070 5.0% \$ 29,257 \$ 75,160 \$ 160,916 \$ 160,916 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 29,540 \$ 106,229 \$ 162,471 \$ 162,471 3.2% \$ 29,512 \$ 102,555 \$ 162,313 \$ 162,313 3.4% \$ 29,483 \$ 99,021 \$ 162,156 \$ 162,156 \$ 162,156 \$ 162,156 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 29,313 \$ 80,457 \$ 161,224 \$ 161,224 4.8% \$ 29,285 \$ 77,758 \$ 161,070 \$ 161,070 5.0% \$ 29,257 \$ 75,160 \$ 160,916 \$ 160,916 \$ 160,916 \$ 160,916 |

NPV rankings change at the following discount rates: 0.5 $\ensuremath{\$}$

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|--|--|--|--|
| Demolition | \$ 29,202 | Demolition | \$ 28,983 |
| Care Taker Status | \$ 70,251 | Care Taker Status | \$ 53,929 |
| Other DOD or Federal Agency | \$ 160,611 | Other DOD or Federal Agency | \$ 159 , 405 |
| Renovation/Conversion | \$ 160,611 | Renovation/Conversion | \$ 159 , 405 |
| | | | |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Demolition | \$ 29,174 | Demolition | \$ 28,956 |
| Care Taker Status | \$ 67 , 932 | Care Taker Status | \$ 52,210 |
| Other DOD or Federal Agency | \$ 160,458 | Other DOD or Federal Agency | \$ 159,256 |
| Renovation/Conversion | \$ 160,458 | Renovation/Conversion | \$ 159 , 256 |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Demolition | \$ 29 , 147 | Demolition | \$ 28,929 |
| Care Taker Status | \$ 65,700 | Care Taker Status | \$ 50,554 |
| Other DOD or Federal Agency | \$ 160,307 | Other DOD or Federal Agency | \$ 159,108 |
| Renovation/Conversion | \$ 160,307 | Renovation/Conversion | \$ 159,108 |
| | + 100,007 | | + 100,100 |
| Discount Rate = | 6.0% | Discount Rate = | 7.6% |
| Demolition | \$ 29,119 | Demolition | \$ 28,902 |
| Care Taker Status | \$ 63,550 | Care Taker Status | \$ 48,958 |
| Other DOD or Federal Agency | \$ 160 , 155 | Other DOD or Federal Agency | \$ 158,960 |
| Renovation/Conversion | \$ 160,155 | Renovation/Conversion | \$ 158,960 |
| | | | |
| Discount Rate = | 6.2% | Discount Rate = | 7.8% |
| Discount Rate = | 6.2% \$ 29,092 | Discount Rate = | 7.8% \$ 28,875 |
| | | | |
| Demolition | \$ 29,092 | Demolition | \$ 28,875 |
| Demolition Care Taker Status | \$ 29,092 \$ 61,479 | Demolition Care Taker Status | \$ 28,875 \$ 47,420 |
| Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 | Demolition Care Taker Status Other DOD or Federal Agency | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 \$ 159,854 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 \$ 158,665 \$ 158,665 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 \$ 159,854 \$ 159,854 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 \$ 158,665 \$ 158,665 \$ 158,665 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 \$ 159,854 \$ 159,854 \$ 159,854 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 \$ 158,665 \$ 158,665 \$ 158,665 \$ 28,822 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 \$ 159,854 \$ 159,854 \$ 159,854 \$ 57,563 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 \$ 158,665 \$ 158,665 8.2% \$ 28,822 \$ 44,508 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 \$ 159,854 \$ 159,854 6.6% \$ 29,037 \$ 57,563 \$ 159,704 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 \$ 158,665 \$ 158,665 \$ 158,665 \$ 28,822 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 \$ 159,854 6.6% \$ 29,037 \$ 57,563 \$ 159,704 \$ 159,704 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 \$ 158,665 \$ 158,665 8.2% \$ 28,822 \$ 44,508 \$ 158,519 \$ 158,519 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 \$ 159,854 \$ 159,854 \$ 159,854 \$ 159,704 \$ 159,704 \$ 159,704 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 \$ 158,665 \$ 158,665 8.2% \$ 28,822 \$ 44,508 \$ 158,519 \$ 158,519 \$ 158,519 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 \$ 159,854 \$ 159,854 6.6% \$ 29,037 \$ 57,563 \$ 159,704 \$ 159,704 \$ 159,704 \$ 159,704 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 \$ 158,665 \$ 158,665 8.2% \$ 28,822 \$ 44,508 \$ 158,519 \$ 158,519 \$ 158,519 \$ 158,519 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 \$ 159,854 6.6% \$ 29,037 \$ 57,563 \$ 159,704 \$ 159,704 \$ 159,704 \$ 159,704 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 \$ 158,665 \$ 158,665 8.2% \$ 28,822 \$ 44,508 \$ 158,519 \$ 158,519 \$ 158,519 \$ 158,519 \$ 158,519 |
| Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 29,092 \$ 61,479 \$ 160,004 \$ 160,004 6.4% \$ 29,064 \$ 59,484 \$ 159,854 \$ 159,854 \$ 159,854 6.6% \$ 29,037 \$ 57,563 \$ 159,704 \$ 159,704 \$ 159,704 \$ 159,704 | Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 28,875 \$ 47,420 \$ 158,813 \$ 158,813 8.0% \$ 28,848 \$ 45,937 \$ 158,665 \$ 158,665 8.2% \$ 28,822 \$ 44,508 \$ 158,519 \$ 158,519 \$ 158,519 \$ 158,519 |

NPV rankings change at the following discount rates: 0.5 $\ensuremath{\$}$

| Discount Rate = | = 8.6% |
|---|---|
| Demolition | \$ 28 , 768 |
| Care Taker Status | \$ 41,802 |
| | \$ 158,227 |
| Other DOD or Federal Agency | · · |
| Renovation/Conversion | \$ 158,227 |
| Discount Rate = | = 8.8% |
| Demolition | \$ 28,742 |
| Care Taker Status | \$ 40,520 |
| Other DOD or Federal Agency | \$ 158,081 |
| Renovation/Conversion | \$ 158,081 |
| | , |
| Discount Rate = | = 9.0% |
| Demolition | \$ 28 , 716 |
| Care Taker Status | \$ 39,285 |
| Other DOD or Federal Agency | \$ 157 , 936 |
| Renovation/Conversion | \$ 157 , 936 |
| Discount Rate = | = 9.2% |
| | |
| Demolition | \$ 28,689 |
| Care Taker Status | \$ 38,093 |
| Other DOD or Federal Agency | \$ 157,791 |
| Renovation/Conversion | \$ 157 , 791 |
| Discount Rate = | = 9.4% |
| Demolition | \$ 28,663 |
| Care Taker Status | \$ 36,944 |
| Other DOD or Federal Agency | \$ 157,647 |
| Renovation/Conversion | \$ 157,647 |
| | + 10, 01, |
| Discount Rate = | = 9.6% |
| Demolition | \$ 28,637 |
| Care Taker Status | + 0= 00= |
| | \$ 35 , 835 |
| Other DOD or Federal Agency | \$ 35,835 \$ 157,503 |
| Other DOD or Federal Agency Renovation/Conversion | |
| | \$ 157,503 \$ 157,503 |
| Renovation/Conversion Discount Rate = | \$ 157,503 \$ 157,503 = 9.8% |
| Renovation/Conversion Discount Rate = Demolition | \$ 157,503 \$ 157,503 = 9.8% \$ 28,611 |
| Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 157,503 \$ 157,503 = 9.8% \$ 28,611 \$ 34,765 |
| Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 157,503 \$ 157,503 = 9.8% \$ 28,611 \$ 34,765 \$ 157,360 |
| Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 157,503 \$ 157,503 = 9.8% \$ 28,611 \$ 34,765 |
| Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency | \$ 157,503 \$ 157,503 = 9.8% \$ 28,611 \$ 34,765 \$ 157,360 \$ 157,360 |
| Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion | \$ 157,503 \$ 157,503 = 9.8% \$ 28,611 \$ 34,765 \$ 157,360 \$ 157,360 |
| Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 157,503 \$ 157,503 = 9.8% \$ 28,611 \$ 34,765 \$ 157,360 \$ 157,360 \$ 157,360 |
| Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Care Taker Status | \$ 157,503 \$ 157,503 = 9.8% \$ 28,611 \$ 34,765 \$ 157,360 \$ 157,360 \$ 157,360 \$ 10.0% \$ 28,585 |
| Renovation/Conversion Discount Rate = Demolition Care Taker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 157,503 \$ 157,503 = 9.8% \$ 28,611 \$ 34,765 \$ 157,360 \$ 157,360 \$ 157,360 \$ 157,360 \$ 33,733 |

Date Generated: 13 June 2018 Time Generated: 11.06.19 Version: ECONPACK 4.0.32

Building 3716 Economic Analysis

Executive Summary Report

| Project Title | :Facilities Reduction Program |
|--------------------|---|
| Type of Analysis | :Mission Requirement - Full |
| Discount Rate | :2.5% |
| Period of Analysis | :20 years |
| Start Year | :2018 |
| Base Year | :2018 |
| Dollar Analysis | :Current Dollars |
| Project Objective | Building 3716 |
| | that meets the EXORD requirement to reduce excess square footage. |

Background:

Building 3716 has been identified as a facility for disposal per HQDA EXORD 164-15.

HQDA EXORD 164-15, "Reduce the Installation Facility Footprint," published March 2015, holds commanders and planners accountable for making all reasonable efforts to maximize space utilization, consolidate units into our best facilities, and dispose of excess assets. Although the Reduce the Footprint (RtF) acronym has taken hold, the EXORD is really about the efficient management of our real property assets. Significant cost reductions can only be achieved with transformational changes that enable us to reduce our expenditures on facilities and services.

Alternatives Considered for this Analysis:

Demolition - This alternative will demolish the building and restore the site to a grassed area. This alternative meets the requirements of the Executive Order Number 164-15 to dispose of excess facilities. Demolition cost is estimated to be \$10/sf - 20,770*10 = \$207,700. This is a viable alternative. This is a viable alternative. Renovation/Conversion - Conversion/Alternate Use - This alternative renovates the facility for use for another Category Code. The best option for conversion of building, based on its current

configuration, is to use it for Category Code 21410, Vehicle Maintenance Shop. To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems. Estimated cost is \$55/sf or 20,770*55 = \$1,142,350. However, there currently is an excess of space in this category code and converting into this category would violate the intent of the Exord. This is a viable alternative This is a viable alternative.

Other DOD or Federal Agency - This alternative offers the building to another DOD or federal agency. The agency would be responsible for the renovation/conversion of the facility. Cost would be the same as the renovation/conversion alternative - \$55*20,770 =\$1,142,350. Due to the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable This is a viable alternative.

Caretaker Status - This alternative maintains the facility in its current condition to be used later in its current category code or after conversion into a different category code. A facility in caretaker status is maintained to the point of preventing problems from developing or to keep existing problems from worsening. The cost is based on an annual, per square foot expense of \$0.33 or \$0.33*20,770 = \$6854/yr. This would be a reoccurring annual expense until the facility is put back into use. With this alternative, renovation/repair would still be required prior to re-use and mostly likely at a much higher cost. This is a viable alternative.

Assumptions of the Analysis:

1. This building cannot be used in its current state due to its condition.

2. Renovation and/or conversion is necessary for the building to be reutilized in another Category Code.

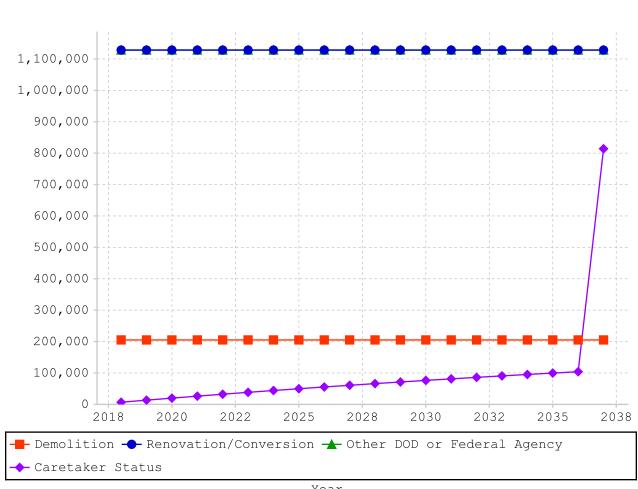
Economic Indicators:

| Alternative | NPV | |
|-----------------------------|--------------|--|
| Demolition | \$ 205,151 | |
| Renovation/Conversion | \$ 1,128,333 | |
| Other DOD or Federal Agency | \$ 1,128,333 | |
| Caretaker Status | \$ 813,979 | |

Results and Recommendations:

Based on the results of this analysis, the most economical alternative that meets the intent of Exord 164-15 is demolition. Fort Benning does not have a need for the facility in its current design use category code. Conversion to another category code for Fort Benning use is undesired due to its size, layout, location and lack of interested units. No other Federal Agency has expressed interest in using the building, either in its current configuration or converted into another category code. Therefore, demolition of Building 3716 is the most economical alternative for the Army.

| Action Officer | :Dean Miller |
|----------------|---------------------------------|
| Phone Number | :706-545-3229 |
| Email Address | : sherman.d.miller.civ@mail.mil |
| Organization | : Master Planning Division, DPW |



Economic Analysis Graph

Net Present Value

Year

Dollars

Alternative: Demolition

| Year | Demolition | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|--------------------|------------------------------------|
| 2018 | \$207,700 | \$207,700 | 0.988 | \$205 , 151 | \$205,151 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$205,151 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$205 , 151 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$205,151 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$205 , 151 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$205 , 151 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$205 , 151 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$205 , 151 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$205 , 151 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$205 , 151 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$205,151 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$205,151 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$205 , 151 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$205,151 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$205 , 151 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$205,151 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$205 , 151 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$205,151 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$205 , 151 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$205,151 |
| %NPV | 100.00% | | | | |
| | \$205 , 151 | | | | |
| Discounting Convention | М-О-Ү | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| | | | | | |

Alternative: Renovation/Conversion

| Year | Renovation/ Conversion | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|---------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$1,142,350 | \$1,142,350 | 0.988 | \$1,128,333 | \$1,128,333 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$1,128,333 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$1,128,333 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$1,128,333 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$1,128,333 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$1,128,333 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$1,128,333 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$1,128,333 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$1,128,333 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$1,128,333 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$1,128,333 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$1,128,333 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$1,128,333 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$1,128,333 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$1,128,333 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$1,128,333 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$1,128,333 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$1,128,333 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$1,128,333 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$1,128,333 |
| %NPV | 100.00% | | | | |
| | \$1,128,333 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Discount Rate | : 2.5% | | | | |

Alternative: Other DOD or Federal Agency

| Year | Other DOD or Agency | Total Annual Outlays | Middle of Year Discount Factors | Present Value | Cumulative Net Present Value |
|------------------------------------|------------------------|----------------------------|--|------------------|------------------------------------|
| 2018 | \$1,142,350 | \$1,142,350 | 0.988 | \$1,128,333 | \$1,128,333 |
| 2019 | \$0 | \$0 | 0.964 | \$0 | \$1,128,333 |
| 2020 | \$0 | \$0 | 0.94 | \$0 | \$1,128,333 |
| 2021 | \$0 | \$0 | 0.917 | \$0 | \$1,128,333 |
| 2022 | \$0 | \$0 | 0.895 | \$0 | \$1,128,333 |
| 2023 | \$0 | \$0 | 0.873 | \$0 | \$1,128,333 |
| 2024 | \$0 | \$0 | 0.852 | \$0 | \$1,128,333 |
| 2025 | \$0 | \$0 | 0.831 | \$0 | \$1,128,333 |
| 2026 | \$0 | \$0 | 0.811 | \$0 | \$1,128,333 |
| 2027 | \$0 | \$0 | 0.791 | \$0 | \$1,128,333 |
| 2028 | \$0 | \$0 | 0.772 | \$0 | \$1,128,333 |
| 2029 | \$0 | \$0 | 0.753 | \$0 | \$1,128,333 |
| 2030 | \$0 | \$0 | 0.734 | \$0 | \$1,128,333 |
| 2031 | \$0 | \$0 | 0.717 | \$0 | \$1,128,333 |
| 2032 | \$0 | \$0 | 0.699 | \$0 | \$1,128,333 |
| 2033 | \$0 | \$0 | 0.682 | \$0 | \$1,128,333 |
| 2034 | \$0 | \$0 | 0.665 | \$0 | \$1,128,333 |
| 2035 | \$0 | \$0 | 0.649 | \$0 | \$1,128,333 |
| 2036 | \$0 | \$0 | 0.633 | \$0 | \$1,128,333 |
| 2037 | \$0 | \$0 | 0.618 | \$0 | \$1,128,333 |
| %NPV | 100.00% | | | | |
| | \$1,128,333 | | | | |
| Discounting Convention | М-О-У | | | | |
| Inflation Schedule | No Inflation | | | | |
| Category / Residual Schedule | Non-Recurring Costs | | | | |
| Discount Rate | · 2 5% | | | | |

Alternative: Caretaker Status

| Year | Caretaker Status | Renovation/ Construction | Total Annual Outlays | Middle of Year Discount Factors | Present Value |
|------------------------------------|---------------------|-----------------------------|----------------------------|--|------------------|
| 2018 | \$6,854 | \$0 | \$6,854 | 0.988 | \$6,770 |
| 2019 | \$6,854 | \$0 | \$6,854 | 0.964 | \$6,605 |
| 2020 | \$6 , 854 | \$0 | \$6 , 854 | 0.94 | \$6,444 |
| 2021 | \$6,854 | \$0 | \$6,854 | 0.917 | \$6 , 287 |
| 2022 | \$6,854 | \$ O | \$6,854 | 0.895 | \$6 , 133 |
| 2023 | \$6,854 | \$O | \$6,854 | 0.873 | \$5,984 |
| 2024 | \$6,854 | \$ O | \$6,854 | 0.852 | \$5 , 838 |
| 2025 | \$6,854 | \$0 | \$6,854 | 0.831 | \$5 , 695 |
| 2026 | \$6,854 | \$0 | \$6,854 | 0.811 | \$5 , 556 |
| 2027 | \$6,854 | \$0 | \$6,854 | 0.791 | \$5,421 |
| 2028 | \$6,854 | \$0 | \$6,854 | 0.772 | \$5,289 |
| 2029 | \$6,854 | \$0 | \$6,854 | 0.753 | \$5,160 |
| 2030 | \$6,854 | \$0 | \$6,854 | 0.734 | \$5,034 |
| 2031 | \$6,854 | \$0 | \$6,854 | 0.717 | \$4,911 |
| 2032 | \$6,854 | \$0 | \$6,854 | 0.699 | \$4,791 |
| 2033 | \$6,854 | \$0 | \$6,854 | 0.682 | \$4,674 |
| 2034 | \$6,854 | \$0 | \$6,854 | 0.665 | \$4,560 |
| 2035 | \$6 , 854 | \$0 | \$6,854 | 0.649 | \$4,449 |
| 2036 | \$6,854 | \$0 | \$6,854 | 0.633 | \$4,341 |
| 2037 | \$6 , 854 | \$1,142,350 | \$1,149,204 | 0.618 | \$710,038 |
| %NPV | 13.29% | 86.71% | | | |
| | \$108 , 175 | \$705 , 803 | | | |
| Discounting Convention | М-О-У | М-О-Ү | | | |
| Inflation Schedule | No Inflation | No Inflation | | | |
| Category / Residual Schedule | Recurring Costs | Recurring Costs | | | |

Alternative: Caretaker Status

| Year | Cumulative Net Present Value | |
|------|------------------------------------|--|
| 2018 | \$6 , 770 | |
| 2019 | \$13,375 | |
| 2020 | \$19,818 | |
| 2021 | \$26,105 | |
| 2022 | \$32,238 | |
| 2023 | \$38,222 | |
| 2024 | \$44,059 | |
| 2025 | \$49,755 | |
| 2026 | \$55,311 | |
| 2027 | \$60,732 | |
| 2028 | \$66,020 | |
| 2029 | \$71,180 | |
| 2030 | \$76,214 | |
| 2031 | \$81,125 | |
| 2032 | \$85,916 | |
| 2033 | \$90,591 | |
| 2034 | \$95,151 | |
| 2035 | \$99,600 | |
| 2036 | \$103,941 | |
| 2037 | \$813 , 979 | |

Sources and Derivations:

- 1. Demolition
 - a. Demolition

Estimated demolition cost is \$10/sf.

 $10^{2},770 = 207,700.$

- 2. Renovation/Conversion
 - a. Renovation/ Conversion

To be made practical, this building would require total renovation to include repairing or replacing roofing, flooring, plumbing, electrical, communications, and other systems.

Estimated cost is \$55/sf or 55*20,770 = \$1,142,350

3. Other DOD or Federal Agency

a. Other DOD or Agency

This alternative offers the building to another DOD or federal agency. The agency

would be responsible for the renovation/conversion of the facility. Cost would be the

same as the renovation/conversion alternative - \$55*20,770 = \$1,142,350.

Due to the cost and time required for renovation, it's unlikely that another agency would select it. This alternative is viable.

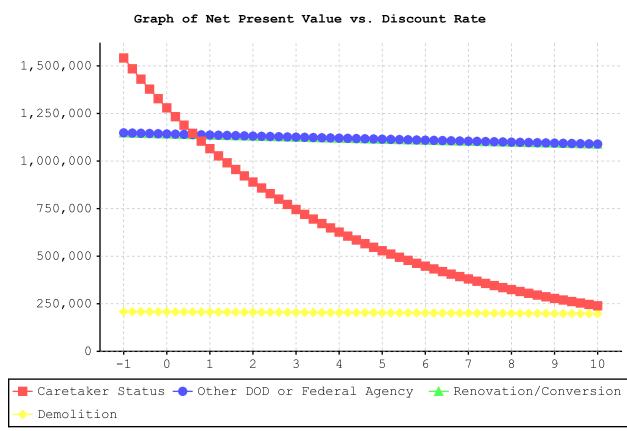
4. Caretaker Status

a. Caretaker Status

The current cost of maintaining a facility in a caretaker status is \$0.33/sf. This alternative provides the minimum facility maintenance necessary to keep the building from deteriorating from lack of use and to prevent existing conditions from worsening. When the decision to bring the building back on line is made, the facility will still require major renovation to be made functional.

b. Renovation/ Construction

The estimated renovation/conversion cost of this alternative is \$55/sf. In the caretaker status alternative, this cost (or the cost of demolition) would be incurred at the end of the caretaker status period. This cost will need to be adjusted for inflation based on the year that the facility is brought out of Caretaker Status and renovated.



NPV rankings change at the following discount rates: 0.6 $\ensuremath{\$}$

Discount Rate (%)

Dollars

NPV rankings change at the following discount rates: 0.6 $\ensuremath{\$}$

| Discount Rate = | -1.0% | Discount Rate = | 0.6% |
|---|---|---|--|
| Demolition | \$ 208,746 | Demolition | \$ 207,080 |
| Other DOD or Federal Agency | \$ 1,148,105 | Other DOD or Federal Agency | \$ 1,138,938 |
| Renovation/Conversion | \$ 1,148,105 | Renovation/Conversion | \$ 1,138,938 |
| Caretaker Status | \$ 1,541,502 | Caretaker Status | \$ 1,145,770 |
| Discount Rate = | -0.8% | Discount Rate = | 0.8% |
| Demolition | \$ 208,536 | Demolition | \$ 206,874 |
| Other DOD or Federal Agency | \$ 1,146,947 | Caretaker Status | \$ 1,104,670 |
| Renovation/Conversion | \$ 1,146,947 | Other DOD or Federal Agency | \$ 1,137,808 |
| Caretaker Status | \$ 1,484,751 | Renovation/Conversion | \$ 1,137,808 |
| Discount Rate = | -0.6% | Discount Rate = | 1.0% |
| Demolition | \$ 208,326 | Demolition | \$ 206,669 |
| Other DOD or Federal Agency | \$ 1,145,793 | Caretaker Status | \$ 1,065,177 |
| Renovation/Conversion | \$ 1,145,793 | Other DOD or Federal Agency | \$ 1,136,681 |
| Caretaker Status | \$ 1,430,261 | Renovation/Conversion | \$ 1,136,681 |
| Discount Rate = | -0.4% | Discount Rate = | 1.2% |
| Demolition | \$ 208,117 | Demolition | \$ 206,465 |
| Other DOD or Federal Agency | \$ 1,144,642 | Caretaker Status | \$ 1,027,226 |
| Renovation/Conversion | \$ 1,144,642 | Other DOD or Federal Agency | \$ 1,135,557 |
| Caretaker Status | \$ 1,377,938 | Renovation/Conversion | \$ 1,135,557 |
| | | | |
| Discount Rate = | -0.2% | Discount Rate = | 1.4% |
| Discount Rate = Demolition | \$ 207,908 | Discount Rate = | \$ 206,261 |
| Demolition Other DOD or Federal Agency | \$ 207,908 \$ 1,143,494 | Demolition Caretaker Status | \$ 206,261 \$ 990,753 |
| Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 207,908 \$ 1,143,494 \$ 1,143,494 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 206,261 \$ 990,753 \$ 1,134,437 |
| Demolition Other DOD or Federal Agency | \$ 207,908 \$ 1,143,494 | Demolition Caretaker Status | \$ 206,261 \$ 990,753 |
| Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 \$ 1,133,319 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 \$ 1,279,430 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | <pre>\$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 \$ 1,133,319 \$ 1,133,319</pre> |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 \$ 1,279,430 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 \$ 1,133,319 \$ 1,133,319</pre> |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 \$ 1,279,430 0.2% \$ 207,493 \$ 1,141,209 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | <pre>\$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 \$ 1,133,319 \$ 1,133,319 \$ 1,133,319</pre> |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 \$ 1,142,350 \$ 1,279,430 0.2% \$ 207,493 \$ 1,141,209 \$ 1,141,209 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 \$ 1,133,319 \$ 1,133,319 \$ 1,133,319 1.8% \$ 205,856 \$ 922,000 \$ 1,132,206 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 \$ 1,279,430 0.2% \$ 207,493 \$ 1,141,209 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 \$ 1,133,319 \$ 1,133,319 \$ 1,133,319 1.8% \$ 205,856 \$ 922,000 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 \$ 1,142,350 \$ 1,279,430 0.2% \$ 207,493 \$ 1,141,209 \$ 1,141,209 \$ 1,233,076 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | <pre>\$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 \$ 1,133,319 \$ 1,133,319 1.8% \$ 205,856 \$ 922,000 \$ 1,132,206 \$ 1,132,206</pre> |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 \$ 1,142,350 \$ 1,279,430 0.2% \$ 207,493 \$ 1,141,209 \$ 1,141,209 \$ 1,233,076 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | <pre>\$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 \$ 1,133,319 \$ 1,133,319 1.8% \$ 205,856 \$ 922,000 \$ 1,132,206 \$ 1,132,206</pre> |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 \$ 1,279,430 0.2% \$ 207,493 \$ 1,141,209 \$ 1,141,209 \$ 1,233,076 0.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 \$ 1,133,319 \$ 1,133,319 1.8% \$ 205,856 \$ 922,000 \$ 1,132,206 \$ 1,132,206 \$ 1,132,206 |
| Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition Other DOD or Federal Agency Renovation/Conversion Caretaker Status Discount Rate = Demolition | \$ 207,908 \$ 1,143,494 \$ 1,143,494 \$ 1,327,690 -0.0% \$ 207,700 \$ 1,142,350 \$ 1,142,350 \$ 1,279,430 0.2% \$ 207,493 \$ 1,141,209 \$ 1,141,209 \$ 1,141,209 \$ 1,233,076 0.4% \$ 207,286 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 206,261 \$ 990,753 \$ 1,134,437 \$ 1,134,437 1.6% \$ 206,058 \$ 955,697 \$ 1,133,319 \$ 1,133,319 1.8% \$ 205,856 \$ 922,000 \$ 1,132,206 \$ 1,132,206 \$ 1,132,206 \$ 1,132,206 |

NPV rankings change at the following discount rates: 0.6 $\ensuremath{\$}$

| Discount Rate = | 2.2% | Discount Rate = | 3.8% |
|---|--|---|--|
| Demolition | \$ 205,452 | Demolition | \$ 203,863 |
| Caretaker Status | \$ 203,432 \$ 858,462 | Caretaker Status | \$ 203,883 \$ 648,619 |
| Other DOD or Federal Agency | \$ 1,129,988 | Other DOD or Federal Agency | \$ 1,121,245 |
| Renovation/Conversion | \$ 1,129,988 | Renovation/Conversion | \$ 1,121,245 |
| | + 1/123/300 | | + 1/101/010 |
| Discount Rate = | 2.4% | Discount Rate = | 4.0% |
| Demolition | \$ 205,252 | Demolition | \$ 203,667 |
| Caretaker Status | \$ 828,517 | Caretaker Status | \$ 626,671 |
| Other DOD or Federal Agency | \$ 1,128,884 | Other DOD or Federal Agency | \$ 1,120,166 |
| Renovation/Conversion | \$ 1,128,884 | Renovation/Conversion | \$ 1,120,166 |
| Discount Rate = | 2.6% | Discount Rate = | 4.2% |
| Demolition | \$ 205,051 | Demolition | \$ 203,471 |
| Caretaker Status | \$ 799,722 | Caretaker Status | \$ 605,550 |
| Other DOD or Federal Agency | \$ 1,127,783 | Other DOD or Federal Agency | \$ 1,119,091 |
| Renovation/Conversion | \$ 1,127,783 | Renovation/Conversion | \$ 1,119,091 |
| Discount Rate = | 2.8% | Discount Rate = | 4.4% |
| Demolition | \$ 204,852 | Demolition | \$ 203,276 |
| Caretaker Status | \$ 772,030 | Caretaker Status | \$ 585,223 |
| Other DOD or Federal Agency | \$ 1,126,685 | Other DOD or Federal Agency | \$ 1,118,018 |
| Renovation/Conversion | \$ 1,126,685 | Renovation/Conversion | \$ 1,118,018 |
| | | | |
| Discount Rate = | 3.0% | Discount Rate = | 4.6% |
| | | | |
| Demolition | \$ 204,653 | Demolition | \$ 203,082 |
| Demolition Caretaker Status | \$ 204,653 \$ 745,397 | Demolition Caretaker Status | \$ 203,082 \$ 565,659 |
| Demolition | \$ 204,653 | Demolition | \$ 203,082 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 \$ 1,124,500 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 \$ 1,115,883 \$ 1,115,883 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 \$ 1,124,500 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 \$ 1,115,883 \$ 1,115,883 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 \$ 1,124,500 \$ 3.4% | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 \$ 1,115,883 \$ 1,115,883 \$ 1,115,883 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 \$ 1,124,500 \$ 1,124,500 3.4% \$ 204,257 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 \$ 1,115,883 \$ 1,115,883 \$ 1,115,883 \$ 5.0% \$ 202,694 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 \$ 1,124,500 \$ 1,124,500 3.4% \$ 204,257 \$ 695,137 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 \$ 1,115,883 \$ 1,115,883 \$ 1,115,883 5.0% \$ 202,694 \$ 528,697 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 \$ 1,124,500 \$ 1,124,500 3.4% \$ 204,257 \$ 695,137 \$ 1,123,412 \$ 1,123,412 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 \$ 1,115,883 \$ 1,115,883 5.0% \$ 202,694 \$ 528,697 \$ 1,114,819 \$ 1,114,819 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 \$ 1,124,500 \$ 1,124,500 3.4% \$ 204,257 \$ 695,137 \$ 1,123,412 \$ 1,123,412 \$ 1,123,412 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 \$ 1,115,883 \$ 1,115,883 5.0% \$ 202,694 \$ 528,697 \$ 1,114,819 \$ 1,114,819 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 \$ 1,124,500 \$ 1,124,500 3.4% \$ 204,257 \$ 695,137 \$ 1,123,412 \$ 1,123,412 \$ 1,123,412 \$ 1,123,412 \$ 204,059 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 \$ 1,115,883 \$ 1,115,883 5.0% \$ 202,694 \$ 528,697 \$ 1,114,819 \$ 1,114,819 \$ 1,114,819 \$ 202,502 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 \$ 1,124,500 \$ 1,124,500 3.4% \$ 204,257 \$ 695,137 \$ 1,123,412 \$ 1,124,500 \$ 1,123,412 \$ 1,1 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 \$ 1,115,883 \$ 1,115,883 5.0% \$ 202,694 \$ 528,697 \$ 1,114,819 \$ 1,114,819 \$ 1,114,819 \$ 1,114,819 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 204,653 \$ 745,397 \$ 1,125,591 \$ 1,125,591 3.2% \$ 204,454 \$ 719,780 \$ 1,124,500 \$ 1,124,500 \$ 1,124,500 3.4% \$ 204,257 \$ 695,137 \$ 1,123,412 \$ 1,123,412 \$ 1,123,412 \$ 1,123,412 \$ 204,059 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = | \$ 203,082 \$ 565,659 \$ 1,116,949 \$ 1,116,949 4.8% \$ 202,888 \$ 546,827 \$ 1,115,883 \$ 1,115,883 5.0% \$ 202,694 \$ 528,697 \$ 1,114,819 \$ 1,114,819 \$ 1,114,819 \$ 1,114,819 |

NPV rankings change at the following discount rates: 0.6 $\ensuremath{\$}$

| Discount Rate = | 5.4% | Discount Rate = | 7.0% |
|---|--|---|--|
| Demolition | \$ 202,309 | Demolition | \$ 200,791 |
| Caretaker Status | \$ 202,309 \$ 494,437 | Caretaker Status | \$ 200,791 \$ 380,472 |
| Other DOD or Federal Agency | \$ 1,112,702 | Other DOD or Federal Agency | \$ 1,104,351 |
| Renovation/Conversion | \$ 1,112,702 | Renovation/Conversion | \$ 1,104,351 |
| | | | |
| Discount Rate = | 5.6% | Discount Rate = | 7.2% |
| Demolition | \$ 202,118 | Demolition | \$ 200,604 |
| Caretaker Status | \$ 478,254 | Caretaker Status | \$ 368,468 |
| Other DOD or Federal Agency | \$ 1,111,648 | Other DOD or Federal Agency | \$ 1,103,321 |
| Renovation/Conversion | \$ 1,111,648 | Renovation/Conversion | \$ 1,103,321 |
| Discount Rate = | 5.8% | Discount Rate = | 7.4% |
| Demolition | \$ 201,927 | Demolition | \$ 200,417 |
| Caretaker Status | \$ 462,669 | Caretaker Status | \$ 356,899 |
| Other DOD or Federal Agency | \$ 1,110,597 | Other DOD or Federal Agency | \$ 1,102,293 |
| Renovation/Conversion | \$ 1,110,597 | Renovation/Conversion | \$ 1,102,293 |
| Discount Rate = | 6.0% | Discount Rate = | 7 6% |
| | | | |
| Demolition | \$ 201,736 | Demolition | \$ 200,231 |
| Caretaker Status | \$ 447,659 | Caretaker Status | \$ 345,748 |
| Other DOD or Federal Agency Renovation/Conversion | \$ 1,109,548 \$ 1,109,548 | Other DOD or Federal Agency Renovation/Conversion | \$ 1,101,268 \$ 1,101,268 |
| Renovation/Conversion | ş 1,109,540 | Renovation/Conversion | Ş I,IUI,200 |
| | | | |
| Discount Rate = | 6.2% | Discount Rate = | |
| Discount Rate = | \$ 201 , 546 | Discount Rate = | \$ 200,045 |
| Demolition Caretaker Status | \$ 201,546 \$ 433,201 | Demolition Caretaker Status | \$ 200,045 \$ 335,000 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 201,546 \$ 433,201 \$ 1,108,503 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 200,045 \$ 335,000 \$ 1,100,246 |
| Demolition Caretaker Status | \$ 201,546 \$ 433,201 | Demolition Caretaker Status | \$ 200,045 \$ 335,000 |
| Demolition Caretaker Status Other DOD or Federal Agency | \$ 201,546 \$ 433,201 \$ 1,108,503 \$ 1,108,503 | Demolition Caretaker Status Other DOD or Federal Agency | \$ 200,045 \$ 335,000 \$ 1,100,246 \$ 1,100,246 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 201,546 \$ 433,201 \$ 1,108,503 \$ 1,108,503 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | \$ 200,045 \$ 335,000 \$ 1,100,246 \$ 1,100,246 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 201,546 \$ 433,201 \$ 1,108,503 \$ 1,108,503 6.4% \$ 201,357 \$ 419,274 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 200,045 \$ 335,000 \$ 1,100,246 \$ 1,100,246 8.0% \$ 199,859 \$ 324,638 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 201,546 \$ 433,201 \$ 1,108,503 \$ 1,108,503 6.4% \$ 201,357 \$ 419,274 \$ 1,107,461 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 200,045 \$ 335,000 \$ 1,100,246 \$ 1,100,246 8.0% \$ 199,859 \$ 324,638 \$ 1,099,227 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 201,546 \$ 433,201 \$ 1,108,503 \$ 1,108,503 6.4% \$ 201,357 \$ 419,274 \$ 1,107,461 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status | \$ 200,045 \$ 335,000 \$ 1,100,246 \$ 1,100,246 8.0% \$ 199,859 \$ 324,638 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 201,546 \$ 433,201 \$ 1,108,503 \$ 1,108,503 6.4% \$ 201,357 \$ 419,274 \$ 1,107,461 \$ 1,107,461 | Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate = Demolition Caretaker Status Other DOD or Federal Agency | \$ 200,045 \$ 335,000 \$ 1,100,246 \$ 1,100,246 8.0% \$ 199,859 \$ 324,638 \$ 1,099,227 \$ 1,099,227 |
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NPV rankings change at the following discount rates: 0.6 $\ensuremath{\$}$

| Discount Rate | = 8. | 6% |
|---|--------------|--|
| Demolition | | \$ 199 , 307 |
| Caretaker Status | | \$ 295,726 |
| Other DOD or Federal Agency | | \$ 1,096,186 |
| Renovation/Conversion | | \$ 1,096,186 |
| | | |
| Discount Rate | = 8. | 8 % |
| Demolition | | \$ 199 , 123 |
| Caretaker Status | | \$ 286,767 |
| Other DOD or Federal Agency | | \$ 1,095,178 |
| Renovation/Conversion | | \$ 1,095,178 |
| Discount Rate | = 9. | 0 % |
| Demolition | | \$ 198,941 |
| Caretaker Status | | \$ 278,127 |
| Other DOD or Federal Agency | | \$ 1,094,173 |
| Renovation/Conversion | | \$ 1,094,173 |
| Discount Rate | = 9. | 2 % |
| | | |
| Demolition | | \$ 198,758 |
| Caretaker Status | | \$ 269,793 |
| Other DOD or Federal Agency | | \$ 1,093,170 |
| Renovation/Conversion | | \$ 1,093,170 |
| | | |
| Discount Rate | = 9. | 4 % |
| Discount Rate | = 9. | 4% \$ 198,576 |
| | = 9. | |
| Demolition | | \$ 198,576 |
| Demolition Caretaker Status | | \$ 198,576 \$ 261,753 |
| Demolition Caretaker Status Other DOD or Federal Agency | | \$ 198,576 \$ 261,753 \$ 1,092,171 \$ 1,092,171 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion | | \$ 198,576 \$ 261,753 \$ 1,092,171 \$ 1,092,171 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate | | \$ 198,576 \$ 261,753 \$ 1,092,171 \$ 1,092,171 6% \$ 198,395 \$ 253,997 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate Demolition | | \$ 198,576 \$ 261,753 \$ 1,092,171 \$ 1,092,171 6% \$ 198,395 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate Demolition Caretaker Status | | \$ 198,576 \$ 261,753 \$ 1,092,171 \$ 1,092,171 6% \$ 198,395 \$ 253,997 |
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| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate Demolition | = 9. | \$ 198,576 \$ 261,753 \$ 1,092,171 \$ 1,092,171 6% \$ 198,395 \$ 253,997 \$ 1,091,174 \$ 1,091,174 8% \$ 198,214 |
| Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate Demolition Caretaker Status Other DOD or Federal Agency Renovation/Conversion Discount Rate Demolition Caretaker Status | = 9. | \$ 198,576 \$ 261,753 \$ 1,092,171 \$ 1,092,171 6% \$ 198,395 \$ 253,997 \$ 1,091,174 \$ 1,091,174 \$ 1,091,174 8% \$ 198,214 \$ 246,513 |
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Environmental Assessment

APPENDIX C

FORT BENNING FACILITIES REDUCTION PROGRAM DRAFT FINDING OF NO SIGNIFICANT IMPACT

Draft Finding of No Significant Impact

DRAFT FINDING OF NO SIGNIFICANT IMPACT

1 Introduction

Fort Benning has prepared this Environmental Assessment (EA) to examine the potential environmental consequences of implementing the Fiscal Year (FY) 19-23 Facility Reduction Program (FRP) in accordance with the National Environmental Policy Act (NEPA) of 1969 (42 US Code [USC] 4321 et seq.), the Council on Environmental Quality (CEQ) Regulations Implementing the Procedural Provisions of NEPA (40 Code of Federal Regulations [CFR] Part 1500-1508), and the Army NEPA Regulation (*Environmental Analysis of Army Actions*; 32 CFR Part 651.

The EA is used to determine and evaluate the potential environmental effects of the Proposed Action, identify possible/potential mitigation measures to lessen or eliminate adverse effects, and examine reasonable alternatives for the Proposed Action. The intended audience of the EA is Army decision-makers, interested government agencies, federally recognized Native American Tribes, and non-governmental organizations, and members of the public. The effects analyses in this EA are based on a variety of sources and the best available information at the time of preparation. The information contained in this EA will be reviewed and considered by the Army prior to the final decision on how to implement the Proposed Action, if at all.

2 Background

A US Army Training and Doctrine Command (TRADOC) memorandum dated 1 November 1996, directed Army installations to support the "Winning the Infrastructure War" initiative via implementation of the IFRP (Infrastructure Footprint Reduction Program). Rather than incur the expense of maintaining outdated or unusable buildings and other structures (i.e., concrete pads and former building foundations, antiquated training equipment, etc.), infrastructure would be demolished and their various functions relocated. The IFRP continues to be implemented on the Installation through the development of the FRP. The FRP is a dynamic Fort Benning initiative with infrastructure being added to or removed from the proposed demolition inventory on the basis of evolving mission demands, utilization priorities, and available funding. Appendix A contains a listing of infrastructure currently proposed for demolition and commonly referred to as the FRP list.

An initial EA and Finding of No Significant Impact (FNSI) for the IFRP on Fort Benning were completed in 1997. The EA analyzed the No Action (Status Quo) Alternative plus two Action Alternatives. Alternative 2 involved the construction and utilization of an on-Post facility for the disposal of demolition wastes. The Preferred Alternative (Alternative 3) involved the transport of demolition wastes to an off-Post commercial facility. The EA's Preferred Alternative offered the most flexibility in disposal methods for wastes generated by demolition and was the alternative selected as outlined in the FNSI.

As a result of infrastructure being demolished or being removed from the program's demolition inventory due to reuse and other infrastructure being added, Supplemental EAs were prepared in 2002 and again in 2008. Both determined that the demolition of infrastructure on the FRP lists

1

Draft Finding of No Significant Impact

would not result in significant adverse effects; instead, all adverse effects were considered minor and further minimized through mitigation and/or monitoring activities. All total, Fort Benning has demolished an estimated 1.4 million square feet of buildings and structures over the last 15 years through the FRP and under a variety of other improvement projects.

More recent comprehensive and collaborative planning efforts by the Army have directed installations to continue optimizing land use and the management of existing facilities through site specific area development planning. Area Development Plans (ADPs) are developed from workshop style events guiding installation planning personnel and Army stakeholders through exercises which promotes short and long-term planning. Key components of the ADPs include the repurposing of existing facilities for optimal use, demolition of excess infrastructure and unneeded facilities, and providing area specific plans from which the Real Property Master Plan can be updated. An installation's Real Property Master Plan provides broad planning direction at the land use level for sustainable installation development that supports mission and environmental requirements. Fort Benning is currently in the process of updating its 2011 Real Property Master Plan.

3 Purpose and Need

The purpose of the Proposed Action is to optimize facility management through reducing buildings and structures. As a result of ongoing Army force structure transformations and modernization efforts at Fort Benning (Section 1.2), facility utilization priorities have again changed requiring an up-to-date FRP list to define which facilities are identified for demolition for FY19-23. The Proposed Action is necessary to continue the Installation's ongoing FRP and support compliance with the US Army TRADOC's IFRP and more recent Army strategies (DoA, 2016a and b). Implementing the Proposed Action would facilitate the identification/selection, demolition, and disposal of infrastructure considered obsolete/outdated, cost prohibitive to sustain, in excess of Army utilization needs, and in some cases contain potential human health and safety concerns. Other benefits include decreasing fixed facility costs (i.e., utilities and saving energy, reducing risks from structural deterioration, and making idle areas of an installation available for productive reuse. Upon completion of the FY19-23 FRP, Fort Benning will have eliminated more than two million square feet of space and made available millions of dollars in operations and maintenance funds for use in other areas annually.

4 Description of the Proposed Action

The Proposed Action is to implement the FY19-23 FRP at Fort Benning, GA. Implementation of the FRP could demolish, dispose, and remove from Real Property inventories approximately 150 buildings and structures equaling more than two million square feet. This tentative goal would occur over the next five years at various locations across Fort Benning's cantonment areas for an estimated cost of \$18 million. Ancillary structures would also be removed as part of the Proposed Action. Relocation of personnel, supplies, and/or equipment may include renovations and/or adaptive reuse of existing structures. Details of relocation and renovation are uncertain at this time, and those types of future actions will be subject to appropriate NEPA documentation as required.

5 Description of the Alternatives

Fort Benning developed a screening criteria to measure which alternatives are reasonable for further analysis. Any alternatives that failed to meet the criteria were eliminated from full consideration within this EA. Alternatives proposed must:

- Comply with the Army TRADOC's IFRP and Army directives instructing optimized facility management through footprint reduction efforts;
- Be economically feasible (e.g., facility conversion or extensive renovation and reuse of buildings and structures on the FRP list would be less cost effective than new construction/replacement.

Alternatives carried forward for analysis in this EA include:

<u>No Action Alternative</u>

Under the No Action Alternative, Fort Benning would continue to utilize approximately 150 building and structures considered cost prohibitive to sustain, in excess of Army utilization needs, and in some cases may contain potential human health and safety concerns associated with older and ageing infrastructure (e.g., lead based paints (LBPs), asbestos containing materials (ACMs), and/or structural deterioration). Occupied buildings would continue to incur excessive maintenance costs until new replacement facilities can be afforded to relocate current occupying activities and personnel. Currently utilized and unoccupied or abandoned buildings or structures would be demolished only as new projects requiring their removal are scheduled in the future. Note that the No Action Alternative does not meet the purpose and need for the Proposed Action but provides a baseline for comparison of other alternatives.

<u>Alternative 1: Full Demolition</u>

Under Alternative 1, Fort Benning would implement the FY19-23 FRP by demolishing all of the structures identified in the FRP's proposed demolition list. Full demolition would preclude the expenditure of excessive maintenance and/or adaptive reuse/renovation costs associated with the utilization of older facilities. Personnel and activities currently occupying facilities to be demolished would relocate to available facilities. Demolished buildings and structures would become open space and in most circumstances the area would be available to be utilized in future projects.

<u>Alternative 2: Selective Demolition</u>

Alternative 2 is similar to Alternative 1; however, Fort Benning would retain the 17 historic buildings identified on the FRP's proposed demolition list. Those 17 buildings are historic properties that are eligible for listing on the National Register of Historic Places per the National Historic Preservation Act. Fort Benning would implement the FY19-23 FRP by demolishing approximately 133 buildings and other structures and continue utilizing the historic structures as best as possible. As outlined in Appendix B, a considerable expenditure of funds to utilize and maintain the historic buildings would continue and many of these facilities would need adaptive reuse and other substantial renovations to sustain adequate and safe working conditions as they continue to age.

3

Draft Finding of No Significant Impact

6 Anticipated Environmental Effects

The analysis contained in this EA indicates that the Proposed Action could have long-term, minor adverse impacts to Cultural Resources, under Alternative 1, and short-term, minor adverse impacts under Alternative 2. Other short-term, minor adverse impacts resulting from demolition activities would occur to Hazardous Materials and Waste, Soils, Water Resources, and Air Quality. Both Air Quality and Utilities would result in long-term, minor adverse impacts as a result of the No Action Alternative. VECs with negligible effects under the Action Alternatives includes Biological Resources, Land Use, and Noise. Additionally, long-term, beneficial impacts to Air Quality and Utilities would result from implementing the Action Alternatives due to reductions in emissions and energy demands.

As discussed in Section 4, these negligible effects to minor adverse direct/indirect impacts do not result in significant adverse cumulative effects when considering other past, present, and reasonably foreseeable future activities at Fort Benning. Adherence to Federal and State laws and regulations, as well as Installation management plans, and Army Regulations would minimize impacts of demolition and disposal activities to Air Quality, Cultural Resources, Hazardous Materials and Waste, Soils, and Water Resources.

7 Mitigation Measures

No mitigation measures, beyond compliance with applicable laws and regulations and indicated Fort Benning Plans, are required to avoid significant impacts under any of the Proposed Action alternatives. Additional mitigations identified within the EA are recommended to mitigate minor adverse impacts.

8 Public Availability

The Final EA and Draft FNSI were made available to the public for a 30-day public comment period from June 21 – July 23, 2018. An announcement that these documents are available was published via a Notice of Availability (NOA) in The Columbus Ledger-Enquirer, The Journal, and Benning News (online) in accordance with the Army NEPA Regulation. These documents are also available at several local libraries and are posted on the Fort Benning website at http://www.benning.army.mil/garrison/dpw/emd/Legal.html.

The NOA of the Final EA and Draft FNSI has been mailed to all agencies, individuals, and organizations on the Fort Benning NEPA distribution (mailing) list for the Proposed Action. As part of Fort Benning's on-going, established process and dialogue with the Federally recognized Native American Tribes affiliated with the Fort Benning area, the Army has provided each Tribe with a copy of these documents for consultation via review and comment.

Environmental Assessment

9 Conclusions

In consideration of the analysis in the EA, I have decided to implement Alternative 1: Full Demolition at Fort Benning. Implementation of the Alternative will not have a significant impact on the quality of human life or natural environment. Implementation of Alternative 2: Selective Demolition or the No Action Alternative also would not have a significant impact on the quality of human life or the natural environment. Notwithstanding, Alternative 2 and the No Action Alternative are less desirable in comparison with Alternative 1's to comply with the US Army TRADOC's IFRP and more recent Army efforts to optimize facility management through reductions to buildings and structures.

This analysis fulfills the requirements of the NEPA of 1969, as implemented by the Council on Environmental Quality regulations (40 CFR 1500–1508), as well as the requirements of the Environmental Analysis of Army Actions (32 CFR 651). Therefore, issuance of a FNSI for the Action Alternatives is warranted and an EIS is not necessary.

FINDING OF NO SIGNIFICANT IMPACT REVIEWED AND APPROVED BY:

June 2018

Date

Clinton W. Cox Colonel, U.S. Army Garrison Commander