

# **AIR NATIONAL GUARD**

**Fiscal Year (FY) 2022  
BUDGET ESTIMATES**



**MILITARY CONSTRUCTION BUDGET  
ESTIMATES PROGRAM YEAR 2022**

**Justification Data Submitted to Congress**

**May 2021**



**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2022**

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**SUMMARY PROJECT LIST  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2022**

STATE	INSTALLATION AND PROJECT	AUTH AMOUNT (\$000)	APPN AMOUNT (\$000)	PAGE NO.
MASSACHUSETTS	<b>Barnes Municipal Airport</b> Combined Engine/ASE/NDI Shop	<u>12,200</u>	<u>12,200</u>	II-1
		<b>12,200</b>	<b>12,200</b>	
MICHIGAN	<b>Alpena County Regional Airport</b> Aircraft Aircraft Maintenance Hangar/Shops	23,000	23,000	II-6
		<b>W. K. Kellogg Airport</b> Construct Main Base Entrance	<u>10,000</u>	<u>10,000</u>
<b>33,000</b>	<b>33,000</b>			
MISSISSIPPI	<b>Jackson International Airport</b> Fire Crash and Rescue Station	<u>9,300</u>	<u>9,300</u>	II-16
		<b>9,300</b>	<b>9,300</b>	
NEW YORK	<b>Schenectady County Airport</b> C-130 Flight Simulator Facility	<u>10,800</u>	<u>10,800</u>	II-22
		<b>10,800</b>	<b>10,800</b>	
OHIO	<b>Camp Perry ANG Station</b> RED HORSE Logistics Complex	<u>7,800</u>	<u>7,800</u>	II-27
		<b>7,800</b>	<b>7,800</b>	
SOUTH CAROLINA	<b>McEntire Joint National Guard Base</b> F-16 Mission Training Center	<u>9,800</u>	<u>9,800</u>	II-32
		<b>9,800</b>	<b>9,800</b>	
SOUTH DAKOTA	<b>Joe Foss Field</b> F-16 Mission Training Center	<u>9,800</u>	<u>9,800</u>	II-37
		<b>9,800</b>	<b>9,800</b>	
WISCONSIN	<b>Dane County Regional-Truax Field</b> Medical Readiness Facility	13,200	13,200	II-42
		<u>31,000</u>	<u>31,000</u>	II-47
		<b>44,200</b>	<b>44,200</b>	
WYOMING	<b>Cheyenne Regional Airport</b> Combined Vehicle Maintenance & ASE Complex	<u>13,400</u>	<u>13,400</u>	II-50
		<b>13,400</b>	<b>13,400</b>	
<b>SUB-TOTAL -- MAJOR CONSTRUCTION</b>		<b><u>150,300</u></b>	<b><u>150,300</u></b>	
<b>PLANNING AND DESIGN</b>			<b>18,402</b>	II-55
<b>UNSPECIFIED MINOR CONSTRUCTION</b>			<b>29,068</b>	II-57
<b>SUB - TOTAL -- SUPPORT COSTS</b>			<b><u>47,470</u></b>	
<b>GRAND TOTAL - FY 2022 REQUEST</b>		<b>150,300</b>	<b>197,770</b>	

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**NEW MISSION/CURRENT MISSION EXHIBIT  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2022**

<b>LOCATION</b>	<b>PROJECT</b>	<b>COST (\$000)</b>	<b>CURRENT/ NEW/ENV</b>
<b>Barnes Municipal Airport, MA</b>	Combined Engine/ASE/NDI Shop	12,200	C
<b>Alpena County Regional Airport, MI</b>	Aircraft Maintenance Hangar/Shops	23,000	C
<b>W.K. Kellogg Airport, MI</b>	Construct Main Base Entrance	10,000	C
<b>Jackson International Airport, MS</b>	Fire Crash and Rescue Station	9,300	C
<b>Schenectady County Airport, NY</b>	C-130 Flight Simulator Facility	10,800	N
<b>Camp Perry ANG Station, OH</b>	RED HORSE Logistics Complex	7,800	C
<b>McEntire Joint National Guard Base, SC</b>	F-16 Mission Training Center	9,800	N
<b>Joe Foss Field, SD</b>	F-16 Mission Training Center	9,800	N
<b>Dane County Regional-Truax Field, WI</b>	Medical Readiness Facility	13,200	C
<b>Dane County Regional-Truax Field, WI</b>	F-35 3-Bay Specialized Hangar	31,000	N
<b>Cheyenne Regional Airport, WY</b>	Combined Vehicle Maintenance & ASE Complex	13,400	C
	<b>PLANNING AND DESIGN UNSPECIFIED</b>	<b>18,402</b>	
	<b>MINOR CONSTRUCTION</b>	<b>29,068</b>	
	<b>TOTAL ENERGY</b>	<b>0</b>	
	<b>TOTAL ENVIRONMENTAL</b>	<b>0</b>	
	<b>TOTAL NEW MISSION (4)</b>	<b>61,400</b>	
	<b>TOTAL CURRENT MISSION (7)</b>	<b>88,900</b>	
	<b>GRAND TOTAL - FY 2022 REQUEST</b>	<b>197,770</b>	

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**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD  
MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2022**

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**SECTION I**

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**APPROPRIATIONS LANGUAGE**

For construction, acquisition, expansion, rehabilitation, and conversion of facilities for the training and administration of the Air National Guard, and contributions therefor, as currently authorized by law, \$197,770,000 to remain available until September 30, 2026: Provided that, of the amount, not to exceed \$18,402,000 shall be available for study, planning, design, and architect and engineer services, as authorized by law, unless the Director of the Air National Guard determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of the determination and the reasons therefor.

## **SPECIAL PROGRAM CONSIDERATIONS**

### **Environmental Compliance**

The environmental compliance projects proposed in this program are necessary to correct current environmental noncompliance situations and to prevent future noncompliance.

### **Flood Plain Management and Wetland Protection**

Proposed land acquisitions, disposals, and installation construction projects have been planned in accordance with the requirements of Executive Orders 11988, Flood Plain Management, and 11900, Protection of Wetlands. Projects have been sited to avoid long and short-term adverse impacts, reduce the risk of flood losses, and minimize the loss, or degradation of wetlands.

### **Design for Accessibility of Physically Handicapped Personnel**

In accordance with Public Law 90-480, provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

### **Preservation of Historical Sites and Structures**

Facilities included in this program do not directly or indirectly affect a district, site, building, structure, object, or setting listed in the National Register of Historic Places, except as noted on the DD Forms 1391.

### **Environmental Protection**

In accordance with Section 102(2) (c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process has been completed or is actively underway for all projects in the Military Construction Program.

### **Economic Analysis**

Economics are an inherent aspect of project development and design of military construction projects. Therefore, all projects included in this program represent the most economical use of resources.

## **SPECIAL PROGRAM CONSIDERATIONS**

(continued)

### **Reserve Manpower Potential**

The reserve manpower potential to meet and maintain authorized strengths of all reserve flying/non-flying units in those areas in which these facilities are to be located has been reviewed. It has been determined, in coordination with all other Services having reserve flying/non-flying units in these areas, that the number of units of the reserve components of the Armed Forces presently located in those areas, and those which have been allocated to the areas for future activation, is not and will not be larger than the number that reasonably can be expected to be maintained at authorized strength considering the number of persons living in the areas who are qualified for membership in those reserve units.

### **Construction Criteria Manual**

Unless otherwise noted, the projects comply with the scope and design criteria prescribed in the Unified Facilities Criteria (UFC).

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**DEPARTMENT OF THE AIR FORCE  
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MILITARY CONSTRUCTION PROGRAM FOR FISCAL YEAR 2022**

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**SECTION II**

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**PROJECT INSTALLATION / JUSTIFICATION DATA**

1. COMPONENT  <b>ANG</b>	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021																			
3. INSTALLATION AND LOCATION  Barnes Municipal Airport, Westfield, MA		4. AREA CONSTR COST INDEX 1.15																			
5. FREQUENCY AND TYPE OF UTILIZATION  Four Unit Training Assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.																					
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS  8 Army National Guard Armories, 1 Army Reserve Center, 1 Air Force Reserve Base, 1 Navy Reserve and 1 Marine Reserve																					
7. PROJECTS REQUESTED IN THIS PROGRAM  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> <th colspan="2" style="text-align: left;"><u>DESIGN STATUS</u></th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th style="text-align: left;"><u>START</u></th> <th style="text-align: left;"><u>COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>211-157</td> <td>Combined Engine/ASE/NDI Shop</td> <td>2,518 SM (27,100 SF)</td> <td>12,200</td> <td>Dec 18</td> <td>Sep 21</td> </tr> </tbody> </table>				CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>						<u>START</u>	<u>COMPLETE</u>	211-157	Combined Engine/ASE/NDI Shop	2,518 SM (27,100 SF)	12,200	Dec 18	Sep 21
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>																	
				<u>START</u>	<u>COMPLETE</u>																
211-157	Combined Engine/ASE/NDI Shop	2,518 SM (27,100 SF)	12,200	Dec 18	Sep 21																
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved  <div style="text-align: right;">1/12/2017 (Date)</div>																					
9. LAND ACQUISITION REQUIRED			0 (Number of Acres)																		
10. PROJECTS PLANNED IN NEXT FOUR YEARS  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)														
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)																		

1. COMPONENT ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAY 2021		
3. INSTALLATION AND LOCATION  <b>Barnes Municipal Airport, Westfield, MA</b>							
11. PERSONNEL STRENGTH AS OF 6-Oct-20							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	441	32	375	34	1027	100	927
ACTUAL	469	33	402	34	968	91	877
12. RESERVE UNIT DATA							
	<u>UNIT DESIGNATION</u>			<u>STRENGTH</u>			
				<u>AUTHORIZED</u>			<u>ACTUAL</u>
	104 AMXS			197			176
	104 CES			56			51
	104 CF			34			30
	104 CPTF			12			9
	104 FSS			58			56
	104 FW			50			49
	104 LRS			84			75
	104 MDG			62			53
	104 MOF			28			27
	104 MSG			13			13
	104 MXG			25			21
	104 MXS			256			237
	104 OG			7			6
	104 OSF			31			28
	104 SFS			79			75
	104 STUFLT			3			35
	131 FS			32			27
		Totals		<u>1027</u>			<u>968</u>
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>			<u>AUTHORIZED</u>			<u>ACTUAL</u>
	F-15			21			21
	Vehicles			134			139
	ASE Equipment			251			251

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021	
3. INSTALLATION AND LOCATION BARNES MUNICIPAL AIRPORT, MASSACHUSETTS			4. PROJECT TITLE COMBINED ENGINE/ASE/NDI SHOP		
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 211-157	7. PROJECT NUMBER AXQD049060	8. PROJECT COST(\$000) \$12,200		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
COMBINED ENGINE, ASE AND NDI SHOP		SM	2,518		8,833
ENGINE SHOP (211157)		SM	1,152	3,400	( 3,917)
NDI SHOP (211153)		SM	372	4,130	( 1,536)
AIRCRAFT SUPPORT EQUIPMENT (218712)		SM	994	3,400	( 3,380)
SUPPORTING FACILITIES					1,912
SITE IMPROVEMENTS		LS			( 418)
UTILITIES		LS			( 456)
PAVEMENTS		LS			( 456)
COMMUNICATIONS SUPPORT		LS			( 262)
DEMOLISH BUILDINGS 20, 21, 70, 71		SM	3,554	90	( 320)
SUSTAINABILITY AND ENERGY REDUCTION		LS			<u>200</u>
SUBTOTAL					10,945
CONTINGENCY (5%)					<u>547</u>
TOTAL CONTRACT COST					11,492
SUPERVISION, INSPECTION AND OVERHEAD (6%)					<u>690</u>
TOTAL REQUEST					12,182
TOTAL REQUEST (ROUNDED)					12,200
10. Description of Proposed Construction: Construct a combined jet engine maintenance and inspection, Non-Destructive Inspection (NDI), and Aircraft Support Equipment (ASE) facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Overhead cranes and hoists to meet jet engine maintenance requirements. NDI lab requires specialized X-ray room and film developing room. Air Conditioning: 263 KW.					
11. REQUIREMENT: 2,518 SM ADEQUATE: 13 SM SUBSTANDARD: 2,555 SM PROJECT: Combined Engine/ASE/NDI Shop (Current Mission) REQUIREMENT: The 104th Fighter Wing requires properly sized, sited and configured space to support jet engine maintenance and inspection, Non-Destructive Inspection (NDI), and Aircraft Support Equipment (ASE) functions in support of 18 PAA F-15 aircraft. Facility shall include necessary space for administration, tool cribs, storage space, designated specialized functions, and locker rooms. Wherever possible, common areas shall be combined to improve building efficiency and reduce footprint. CURRENT SITUATION: The current engine, ASE and NDI shops presently occupy building 20. The facility was built in 1969 and is too small to meet the current space requirements for these functions. Additionally, the space it does provide is poorly configured, energy inefficient, and has numerous health and safety violations. It has inadequate fire protection and utility support, and mechanical systems are past their useful life and no longer meet code. The NDI shop is operating at less than 50% of the required space and the engine shop is split between two separate facilities, both of which impact					

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAY 2021																
3. INSTALLATION AND LOCATION BARNES MUNICIPAL AIRPORT, MASSACHUSETTS																		
5. PROJECT TITLE COMBINED ENGINE/ASE/NDI SHOP	7. PROJECT NUMBER AXQD049060																	
<p>shop efficiency. The ASE shop is split between three facilities, forcing numerous workarounds. Additionally, building 20 is approximately seven feet from a major roadway and does not meet current antiterrorism standards.</p> <p><b>IMPACT IF NOT PROVIDED:</b> Split operations will continue for the engine and ASE shops. NDI will continue to work in inadequate space. All functions will be impacted by workaround and inefficiencies caused by a lack of space. Operations from a degrading facility will incur increased utility costs and additional facility maintenance. Personnel will continue to be exposed to unnecessary health and safety risks associated with operations in building 20.</p> <p><b>ADDITIONAL:</b> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. Antiterrorism/Force Protection requirements have been considered in the development of this project. This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air National Guard requirements. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction. The following buildings will be demolished as a result of this project: Building 20 (2,248 SM / 24,202 SF), Building 21 (563 SM / 6,056 SF), Building 70 (372 SM / 4,000 SF), and Building 71 (372 SM / 4,000 SF)</p> <table border="0" data-bbox="235 1144 1412 1276"> <thead> <tr> <th>CatCode</th> <th>Requirement</th> <th>Adequate</th> <th>Substandard</th> </tr> </thead> <tbody> <tr> <td>211-153 NON-DESTRUCTIVE INSPECTION (ND)</td> <td>372 SM</td> <td>13 SM</td> <td>329 SM</td> </tr> <tr> <td>211-157 JET ENGINE INSPECTION &amp; MAINT</td> <td>1,152 SM</td> <td>0 SM</td> <td>1,364 SM</td> </tr> <tr> <td>218-712 AIRCRAFT SUPPORT EQUIPMENT (AS)</td> <td>994 SM</td> <td>0 SM</td> <td>861 SM</td> </tr> </tbody> </table> <p>ENGINE SHOP (211157) 1,152 SM = 12,400 SF  NDI SHOP (211153) 372 SM = 4,000 SF  AIRCRAFT SUPPORT EQUIPMENT (218712) 994 SM = 10,700 SF</p>			CatCode	Requirement	Adequate	Substandard	211-153 NON-DESTRUCTIVE INSPECTION (ND)	372 SM	13 SM	329 SM	211-157 JET ENGINE INSPECTION & MAINT	1,152 SM	0 SM	1,364 SM	218-712 AIRCRAFT SUPPORT EQUIPMENT (AS)	994 SM	0 SM	861 SM
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3. INSTALLATION AND LOCATION BARNES MUNICIPAL AIRPORT, MASSACHUSETTS																														
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<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table data-bbox="321 632 1360 848"> <tr> <td>(a) Date Design Started</td> <td>DEC 2018</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>No</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2021</td> <td>65%</td> </tr> <tr> <td>(2) (d) Date 35% Designed</td> <td>JAN 2020</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>SEP 2021</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>No</td> </tr> </table> <p>(3) Basis:</p> <table data-bbox="321 911 1360 968"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(4) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table data-bbox="321 1031 1360 1184"> <tr> <td>(a) Production of Plans and Specifications</td> <td>444</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>314</td> </tr> <tr> <td>(c) Total</td> <td>758</td> </tr> <tr> <td>(d) Contract</td> <td>758</td> </tr> <tr> <td>(e) In-House</td> <td>0</td> </tr> </table> <p>(5) Contract Award (Month/Year) DEC 2022</p> <p>(6) Construction Start MAR 2022</p> <p>(7) Construction Completion SEP 2023</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-7005</p>			(a) Date Design Started	DEC 2018	(b) Parametric Cost Estimates used to develop costs	No	(c) Percent Complete as of Jan 2021	65%	(2) (d) Date 35% Designed	JAN 2020	(e) Date Design Complete	SEP 2021	(f) Type of Design Contract	Design-Bid-Build	(g) Energy Study/Life-Cycle analysis was/will be performed	No	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	444	(b) All Other Design Costs	314	(c) Total	758	(d) Contract	758	(e) In-House	0
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1. COMPONENT  ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021																		
3. INSTALLATION AND LOCATION  Alpena County Regional Airport, Alpena, MI		4. AREA CONSTR COST INDEX 1.03																		
5. FREQUENCY AND TYPE OF UTILIZATION  Year-round operational training of Air National Guard units, other Reserve components, and Active military units. Daily use by AGR workforce and other branches of the Armed Forces.																				
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS  None within 15 Mile Radius.																				
7. PROJECTS REQUESTED IN THIS PROGRAM  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> <th colspan="2" style="text-align: left;"><u>DESIGN STATUS</u></th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th style="text-align: left;"><u>START</u></th> <th style="text-align: left;"><u>COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>211-111</td> <td>Aircraft Maintenance Hangar/Shops</td> <td>2,248 SM (24,200 SF)</td> <td>23,000</td> <td>Aug 16</td> <td>Aug 20</td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>						<u>START</u>	<u>COMPLETE</u>	211-111	Aircraft Maintenance Hangar/Shops	2,248 SM (24,200 SF)	23,000	Aug 16	Aug 20
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>																
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8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved																				
		5/1/2018 (Date)																		
9. LAND ACQUISITION REQUIRED																				
		0 (Number of Acres)																		
10. PROJECTS PLANNED IN NEXT FOUR YEARS  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)														
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1. COMPONENT  ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021
3. INSTALLATION AND LOCATION  Alpena County Regional Airport, Alpena, MI		
11. PERSONNEL STRENGTH AS OF 06-Oct-20		
	PERMANENT	GUARD/RESERVE
	<u>TOTAL</u> <u>OFFICER</u> <u>ENLISTED</u> <u>CIVILIAN</u>	<u>TOTAL</u> <u>OFFICER</u> <u>ENLISTED</u>
AUTHORIZED	182        7        49        126	27        2        25
ACTUAL	61        6        55        0	33        2        31
12. RESERVE UNIT DATA		
<u>UNIT DESIGNATION</u>	<u>AUTHORIZED</u>	<u>STRENGTH</u> <u>ACTUAL</u>
ANG CRT - ALPENA CENTER	209	210
Totals	<u>209</u>	<u>210</u>
13. MAJOR EQUIPMENT AND AIRCRAFT		
<u>TYPE</u>	<u>AUTHORIZED</u>	<u>ACTUAL</u>
Vehicles	182	175
Vehicle Equivalent	550	526
ASE Equipment	247	236

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021	
3. INSTALLATION AND LOCATION ALPENA COUNTY REGIONAL AIRPORT, MICHIGAN			4. PROJECT TITLE AIRCRAFT MAINTENANCE HANGAR/SHOPS		
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 211-111	7. PROJECT NUMBER TDVG029067	8. PROJECT COST(\$000) \$23,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
AIRCRAFT MAINTENANCE HANGAR & SHOPS		SM	2,249		14,427
MAINTENANCE HANGAR (211111)		SM	2,007	6,415	( 12,875)
MAINTENANCE SHOPS (211152)		SM	242	6,415	( 1,552)
SUPPORTING FACILITIES					5,606
SITE IMPROVEMENTS		LS			( 300)
WATER STORAGE TANK AND PUMP HOUSE		LS			( 3,250)
PAVEMENTS		LS			( 1,259)
COMMUNICATIONS SUPPORT		LS			( 129)
FIRE PROTECTION SUPPORT		LS			( 668)
SUSTAINABILITY & ENERGY MEASURES		LS			257
SUBTOTAL					20,290
CONTINGENCY (5%)					<u>1,015</u>
TOTAL CONTRACT COST					21,305
SUPERVISION, INSPECTION AND OVERHEAD (6%)					<u>1,278</u>
TOTAL REQUEST					22,583
TOTAL REQUEST (ROUNDED)					23,000
10. Description of Proposed Construction: Construct a high-bay aircraft maintenance hangar and associated aircraft maintenance shops utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Reinforced concrete foundation on deep foundation system. High Expansion Foam (HEF) system. Water storage tank and pump house to supply the HEF system. Air Conditioning: 105 KW.					
11. REQUIREMENT: 2,248 SM ADEQUATE: 0 SM SUBSTANDARD: 2,182 SM PROJECT: Aircraft Maintenance Hangar/Shops (Current Mission) <u>REQUIREMENT:</u> The Alpena Combat Readiness Training Center (CRTC) requires a properly sited, adequately sized, and appropriately configured aircraft hangar and maintenance shop in order to provide an integrated, year-round, and realistic training environment in order to enhance visiting unit's mission capability and readiness. <u>CURRENT SITUATION:</u> Building 601 is the current maintenance hangar for the CRTC, is 48 years old, has no fire suppression, and is undersized for the mission. The lack of an adequately-sized maintenance hangar limits the CRTC's ability to provide an optimal training environment. Due to the size and layout configuration, the hangar can only hold one F-16 aircraft, severely limiting the capability for aircraft maintenance or shelter. Training units' primary complaint about the Alpena CRTC is insufficient hangar space. The facility currently has been given a Risk Assessment Code of 3 due to lack of fire suppression in the hangar. The lack of fire suppression requires a 24-hour fire watch with a tow due whenever the hangar is occupied.					

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAY 2021	
3. INSTALLATION AND LOCATION ALPENA COUNTY REGIONAL AIRPORT, MICHIGAN			
5. PROJECT TITLE AIRCRAFT MAINTENANCE HANGAR/SHOPS	7. PROJECT NUMBER TDVG029067		
<p><u>IMPACT IF NOT PROVIDED:</u> Visiting units will continue to have inadequate enclosed maintenance space for their aircraft. Units will not be able to perform maintenance and inspections in an efficient manner, or not at all due to lack of shop space. Many visiting units will continue to be unable to use the hangar at all for their aircraft due to its limited size and configuration.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. Antiterrorism/Force Protection requirements have been considered in the development of this project. This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air National Guard requirements. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction. Building 601: ACES-RP condition code 3 (Forced use – substandard).</p>			
CatCode	Requirement	Adequate	Substandard
211-111	AIRCRAFT MAINTENANCE HANGAR	2,044 SM	0 SM
211-152	AIRCRAFT GENERAL PURPOSE SHOPS	204 SM	1,543 SM
		0 SM	639 SM
MAINTENANCE HANGAR (211111)	2,007 SM = 21,600 SF		
MAINTENANCE SHOPS (211152)	242 SM = 2,600 SF		

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5. PROJECT TITLE AIRCRAFT MAINTENANCE HANGAR/SHOPS		7. PROJECT NUMBER TDVG029067																												
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>AUG 2016</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>YES</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2021</td> <td>100%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>NOV 2018</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>AUG 2020</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>No</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>949</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>555</td> </tr> <tr> <td>(c) Total</td> <td>1,506</td> </tr> <tr> <td>(d) Contract</td> <td>1,506</td> </tr> <tr> <td>(e) In-House</td> <td></td> </tr> </table> <p>(4) Contract Award (Month/Year) MAR 2022</p> <p>(5) Construction Start APR 2022</p> <p>(6) Construction Completion DEC 2023</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-7005</p>			(a) Date Design Started	AUG 2016	(b) Parametric Cost Estimates used to develop costs	YES	(c) Percent Complete as of Jan 2021	100%	* (d) Date 35% Designed	NOV 2018	(e) Date Design Complete	AUG 2020	(f) Type of Design Contract	Design-Bid-Build	(g) Energy Study/Life-Cycle analysis was/will be performed	No	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	949	(b) All Other Design Costs	555	(c) Total	1,506	(d) Contract	1,506	(e) In-House	
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1. COMPONENT  ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021																			
3. INSTALLATION AND LOCATION  W. K. Kellogg Airport, Battle Creek, MI		4. AREA CONSTR COST INDEX  1.03																			
5. FREQUENCY AND TYPE OF UTILIZATION  Twelve monthly assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training.																					
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS  Fort Custer Training Center, MI Army National Guard - 3 miles; Marine Corps Reserve Center - 2 miles, Naval Reserve Center - 3 miles																					
7. PROJECTS REQUESTED IN THIS PROGRAM  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> <th colspan="2" style="text-align: left;"><u>DESIGN STATUS</u></th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th style="text-align: left;"><u>START</u></th> <th style="text-align: left;"><u>COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>730-839</td> <td>Construct Main Base Entrance</td> <td>251 SM (2,700 SF)</td> <td>10,000</td> <td>Feb 18</td> <td>Mar 21</td> </tr> </tbody> </table>				CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>						<u>START</u>	<u>COMPLETE</u>	730-839	Construct Main Base Entrance	251 SM (2,700 SF)	10,000	Feb 18	Mar 21
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>																	
				<u>START</u>	<u>COMPLETE</u>																
730-839	Construct Main Base Entrance	251 SM (2,700 SF)	10,000	Feb 18	Mar 21																
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved																					
			5/19/2017 (Date)																		
9. LAND ACQUISITION REQUIRED			0 (Number of Acres)																		
10. PROJECTS PLANNED IN NEXT FOUR YEARS  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)														
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1. COMPONENT ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAY 2021		
3. INSTALLATION AND LOCATION  W. K. Kellogg Airport, Battle Creek, MI							
11. PERSONNEL STRENGTH AS OF 06-Oct-20							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	301	50	148	103	949	242	707
ACTUAL	241	42	118	81	885	222	663
12. RESERVE UNIT DATA							
	<u>UNIT DESIGNATION</u>			<u>STRENGTH</u>			
				<u>AUTHORIZED</u>			<u>ACTUAL</u>
	110 CES			98			85
	110 CF			37			26
	110 CPTF			12			13
	110 FSS			48			47
	110 LRS			47			38
	110 MDG			52			54
	110 MSG			13			11
	110 OG			17			17
	110 OSS			94			96
	110 SFS			74			52
	110 WING			42			43
	172 ATKS			99			83
	217 AOG			241			208
	272 COS			72			63
	110 STUFLT			3			49
		Totals		949			885
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>			<u>AUTHORIZED</u>			<u>ACTUAL</u>
	Vehicles			71			62
	Vehicle Equivalent			170			152
	ASE Equipment			27			27

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021
3. INSTALLATION AND LOCATION W. K. KELLOGG AIRPORT, MICHIGAN			4. PROJECT TITLE CONSTRUCT MAIN BASE ENTRANCE	
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 730-839	7. PROJECT NUMBER MBMV099170	8. PROJECT COST(\$000) \$10,000	
<b>9. COST ESTIMATES</b>				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
CONSTRUCT MAIN GATE ENTRANCE	SM	258		958
GATE HOUSE (730839)	SM	28	8,590	( 241)
SECURITY FORCES OPS (730835)	SM	7	8,590	( 60)
COVERED VEHICLE INSPECTION AREA (145921)	SM	223	2,949	( 658)
SUPPORTING FACILITIES				7,611
VEHICLE BARRIER SYSTEM/OVERWATCH	LS			( 236)
UTILITIES	LS			( 445)
ROADS AND PARKING LOTS	SM	9,815	362	( 3,553)
SITE IMPROVEMENTS	LS			( 1,773)
LANDSCAPING	LS			( 466)
SECURITY FENCING	LS			( 173)
MCCA ROAD UPGRADES	LS			( 478)
COMMUNICATIONS SUPPORT	LS			( 387)
STANDBY POWER	LS			( 100)
SUSTAINABILITY AND ENERGY MEASURES	LS			429
SUBTOTAL				8,998
CONTINGENCY (5%)				450
TOTAL CONTRACT COST				9,448
SUPERVISION, INSPECTION AND OVERHEAD (6%)				567
TOTAL REQUEST				10,015
TOTAL REQUEST (ROUNDED)				10,000
10. Description of Proposed Construction: Construct a new main gate to include gate house, security forces badging area and covered vehicle inspection area utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: active and passive vehicle barriers, security gates and fencing. Selective demolition of existing pavements.				
11. REQUIREMENT: 257 SM ADEQUATE: 0 SM SUBSTANDARD: 12 SM <u>PROJECT:</u> Construct Main Base Entrance (Current Mission). <u>REQUIREMENT:</u> The Battle Creek Air National Guard Base requires an Entry Control Facility and gate house that meets the requirements of DOD 5200.8-R, Physical Security Program, and UFC 4-022-01, Security Engineering: Entry Control Facilities/Access Control Points and force protection standards to protect assigned personnel and resources in support of multiple assigned missions. The entry complex requires roadways sited within a controlled area of the base allowing adequate standoff, response time and queuing area. Vehicle denial barriers must be properly located to allow response time to vehicle threats. Access roads must be capable of controlling peak traffic flows while safely rejecting non-authorized vehicles. <u>CURRENT SITUATION:</u> The Entry Control Facility does not comply with UFC or Anti-Terrorism/Force Protection (AT/FP) standards. Additionally, the base entrance is located directly off a				

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAY 2021																
3. INSTALLATION AND LOCATION W. K. KELLOGG AIRPORT, MICHIGAN																		
5. PROJECT TITLE CONSTRUCT MAIN BASE ENTRANCE	7. PROJECT NUMBER MBMV099170																	
<p>55 mph, 5-lane highway with queuing area for only 3 vehicles per lane. This creates extremely dangerous situations as personnel arrive in the morning, especially on Regular Scheduled Drill (RSD) weekends. The current location and layout results in significant traffic congestion that is unsafe for Security Forces personnel manning the gate and for personal and Government vehicles entering and exiting the base. Vehicle barriers are located adjacent to the gate house, allowing for no response time if a vehicle threat does not stop when directed. The vehicle barriers are not properly located to stop any vehicle threat. The existing contractor gate is not co-located, increasing manpower requirements. The contractor gate has no vehicle denial barriers. Due to the gate location adjacent to the public roadway, contractor vehicles must be allowed entry to the installation prior to searching them. The gate complex has been assigned a safety Risk Assessment Code (RAC) 2 (control #16-001) for failing to meet withdrawal distances for improvised explosive devices as listed in AFMAN 91-201, Explosive Safety Standards. Existing vehicle barriers have been assigned RAC 4 (control #15-001) by the 110th ATKW Safety office due to the corroded condition of the barrier components. The lack of proper standoff distance directly exposes personnel and facilities to explosive blast overpressure, fragmentation, and thermal hazards. Relocating the main gate entry will provide proper security, access and egress control, compliant barrier plan, and facility standoff distances in accordance with force protection requirements.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The installation will not be adequately protected as a direct result of the inadequacy of the Entry Control Facility. The installation's ability to protect three highly-classified assigned missions will remain degraded. Traffic will continue to impact public transportation safety during routine screening operations, causing unsafe traffic congestion on the main roadway adjacent to the base. Workarounds for traffic will continue resulting in inefficient operations. This project is necessary to ensure the base personnel, equipment &amp; facilities are adequately protected.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. Antiterrorism/Force Protection requirements have been considered in the development of this project. This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air National Guard requirements. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction.</p> <table border="0" data-bbox="235 1543 1412 1680"> <thead> <tr> <th>CatCode</th> <th>Requirement</th> <th>Adequate</th> <th>Substandard</th> </tr> </thead> <tbody> <tr> <td>145-921 OVER HEAD PROTECTION</td> <td>223 SM</td> <td>0 SM</td> <td>0 SM</td> </tr> <tr> <td>730-835 SECURITY FORCES (SF) OPERATION</td> <td>7 SM</td> <td>0 SM</td> <td>0 SM</td> </tr> <tr> <td>730-839 SF TRAFFIC CHECK HOUSE</td> <td>28 SM</td> <td>0 SM</td> <td>12 SM</td> </tr> </tbody> </table> <p>GATE HOUSE (730839) 28 SM = 300 SF  SECURITY FORCES OPS (730835) 7 SM = 70 SF  COVERED VEHICLE INSPECTION AREA (145921) 223 SM = 2,400 SF</p>			CatCode	Requirement	Adequate	Substandard	145-921 OVER HEAD PROTECTION	223 SM	0 SM	0 SM	730-835 SECURITY FORCES (SF) OPERATION	7 SM	0 SM	0 SM	730-839 SF TRAFFIC CHECK HOUSE	28 SM	0 SM	12 SM
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<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>FEB 2018</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>No</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2022</td> <td>100%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>JAN 2020</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>MAY 2021</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>No</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>497</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>261</td> </tr> <tr> <td>(c) Total</td> <td>758</td> </tr> <tr> <td>(d) Contract</td> <td>758</td> </tr> <tr> <td>(e) In-House</td> <td></td> </tr> </table> <p>(4) Contract Award (Month/Year) MAR 2022</p> <p>(5) Construction Start MAY 2022</p> <p>(6) Construction Completion OCT 2023</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-7005</p>			(a) Date Design Started	FEB 2018	(b) Parametric Cost Estimates used to develop costs	No	(c) Percent Complete as of Jan 2022	100%	* (d) Date 35% Designed	JAN 2020	(e) Date Design Complete	MAY 2021	(f) Type of Design Contract	Design-Bid-Build	(g) Energy Study/Life-Cycle analysis was/will be performed	No	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	497	(b) All Other Design Costs	261	(c) Total	758	(d) Contract	758	(e) In-House	
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1. COMPONENT  <b>ANG</b>	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021																		
3. INSTALLATION AND LOCATION  Jackson International Airport, Jackson, MS		4. AREA CONSTR COST INDEX  0.91																		
5. FREQUENCY AND TYPE OF UTILIZATION  Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.																				
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS  185th Theatre Brigade West Ramp Road Jackson, MS-US Army Reserve Center 180 Commercial Ave Jackson, MS, US Marine Corps Reserve 4350 South Drive Jackson, MS																				
7. PROJECTS REQUESTED IN THIS PROGRAM  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> <th colspan="2" style="text-align: left;"><u>DESIGN STATUS</u></th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th style="text-align: left;"><u>START</u></th> <th style="text-align: left;"><u>COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>130-142</td> <td>Fire Crash and Rescue Station</td> <td>1,802 SM (19,400 SF)</td> <td>9,300</td> <td>Apr 17</td> <td>May 20</td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>						<u>START</u>	<u>COMPLETE</u>	130-142	Fire Crash and Rescue Station	1,802 SM (19,400 SF)	9,300	Apr 17	May 20
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>																
				<u>START</u>	<u>COMPLETE</u>															
130-142	Fire Crash and Rescue Station	1,802 SM (19,400 SF)	9,300	Apr 17	May 20															
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved  <div style="text-align: right;"><u>3/23/2018</u> (Date)</div>																				
9. LAND ACQUISITION REQUIRED  <div style="text-align: right;"><u>0</u> (Number of Acres)</div>																				
10. PROJECTS PLANNED IN NEXT FOUR YEARS  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)														
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)																	

1. COMPONENT ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAY 2021		
3. INSTALLATION AND LOCATION  Jackson International Airport, Jackson, MS							
11. PERSONNEL STRENGTH AS OF 06-Oct-20							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	718	74	500	144	1273	202	1071
ACTUAL	600	67	406	127	1014	166	848
12. RESERVE UNIT DATA							
	<u>UNIT DESIGNATION</u>			<u>STRENGTH</u>			
		<u>AUTHORIZED</u>			<u>ACTUAL</u>		
	172 AMXS	65			70		
	172 AW	55			57		
	172 CES	100			102		
	172 CF	38			40		
	209 Other	100			92		
	172 FSS	52			49		
	172 LRS	125			125		
	172 MDG	66			82		
	172 MOF	16			14		
	172 MSG	15			15		
	172 MXG	24			19		
	172 MXS	155			164		
	172 OG	12			13		
	172 OSS	44			48		
	172 SFS	77			86		
	172 STUFLT	3			2		
	183 AMES	98			95		
	183 AS	134			145		
	172 Other	16			16		
	255 Other	186			160		
	Totals	1381			1394		
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>	<u>AUTHORIZED</u>			<u>ACTUAL</u>		
	C-17	8			9		
	Vehicles	140			123		
	Vehicle Equivalentents	399			361		

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021
3. INSTALLATION AND LOCATION JACKSON INTERNATIONAL AIRPORT, MISSISSIPPI			4. PROJECT TITLE FIRE CRASH AND RESCUE STATION	
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 130-142	7. PROJECT NUMBER LRXQ109002	8. PROJECT COST(\$000) \$9,300	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
CRASH AND FIRE RESCUE FACILITY	SM	1,802		6,595
FIRE STATION AREA	SM	1,802	3,660	( 6,595)
SUPPORTING FACILITIES	LS			1,795
UTILITIES	LS			( 245)
PAVEMENTS	LS			( 485)
SITE IMPROVEMENTS	LS			( 215)
SPECIAL FOUNDATIONS	LS			( 385)
COMMUNICATION SUPPORT	LS			( 140)
DEMOLITION	SM	994	161	( 160)
SUSTAINABILITY & ENERGY MEASURES	LS			( 165)
SUBTOTAL				8,390
CONTINGENCY (5%)				420
TOTAL CONTRACT COST				8,810
SUPERVISION, INSPECTION AND OVERHEAD (6%)				529
TOTAL REQUEST				9,339
TOTAL REQUEST (ROUNDED)				9,300
10. Description of Proposed Construction: Construct a main and satellite fire crash and rescue station utilizing conventional design and construction methods to accommodate the fire emergency services. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements, and UFC 1-200-02, High Performance and Sustainable Building Requirements. Facilities should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Reinforced concrete pile foundation due to poor in-situ soil conditions. Provide all necessary utilities, site improvements, communication support and pavements to include parking and access to adjacent aircraft parking apron and taxiway. Demolish facilities in footprint of new construction. Air Conditioning: 560 KW.				
11. REQUIREMENT: 1,802 SM ADEQUATE: 0 SM SUBSTANDARD: 994 SM PROJECT: Replace Crash and Fire Rescue Station (Current Mission) REQUIREMENT: The 172d Airlift Wing requires a facility to support crash and fire rescue operations to support eight (8) PAA C-17 military aircraft. The proposed facilities will support the operation of a 42 member, three shift, full time operation and a 39 member traditional guard fire department. Functional areas include: pull through vehicle bays for fire/crash rescue vehicles, training classroom, administrative space, control/alarm room, physical fitness training space, kitchen, living quarters, equipment maintenance space, recreation, dining, and necessary storage space. Facilities must be able to support a 24-hour/day operation. CURRENT SITUATION: The administrative/living area of the fire station is one-third underscope. The kitchen/dining area does not meet current fire codes. The dining area cannot accommodate the staff manning a single shift. The training room is not large enough to handle the complete staff. Normal training classes have to be conducted twice to accommodate an entire shift, wasting approximately 25 manhours of valuable training time per week. There are not enough bunk rooms to				

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAY 2021
3. INSTALLATION AND LOCATION JACKSON INTERNATIONAL AIRPORT, MISSISSIPPI		
5. PROJECT TITLE FIRE CRASH AND RESCUE STATION	7. PROJECT NUMBER LRXQ109002	
<p>accommodate a full shift. The building does not have separate toilets or sleeping quarters for females and does not meet ADA requirements. The Assistant Chief's quarters has a private toilet which is used by the female staff. The laundry facility is designed for half the required equipment and currently houses separate washers and driers used to disinfect and clean blood/fuel soaked bunker gear in one system and clean bed linens in the other. There are no airlocks between the administrative/living area and the apparatus bay. The apparatus bay is 50% underscope. The automatic carbon monoxide detection system is outdated and unreliable. Lockers and other personal equipment are stored in half of the apparatus bay. This eliminates the bay's drive through capability and forces a hazardous material response trailer and high expansion foam trailer to be stored outside in the elements where summer temperatures are often in the high 90 degrees. Personnel accessing lockers block the egress path between the locker and vehicle when the locker door is open which also prevents vehicles from safely entering/exiting the bay. The same situation occurs when CE maintenance personnel work on electrical panels or plumbing located on the apparatus bay walls. The building does not have an equipment storage area forcing equipment to be stored in portable storage containers and other buildings owned by Jackson International Airport. The facility, which is sited separately from the main base, must be accessed through a "one vehicle at a time" automated gate controlled by the airport. This requires all firefighters, including traditional guardsmen, to have airport credentials in order to access the fire station. 200 man hours of valuable training time are lost each unit training assembly by firefighters due to the credentialing process and transiting back and forth from the fire station to the main base. The facility has extensive foundation problems, which causes recurring roof leaks, sewer line breaks, floor cracks and other safety issues.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Firefighting personnel will continue to operate in substandard and undersized facilities. Recruiting, retention and quality of life will be adversely impacted. Valuable training time will continue to be lost due to undersized classrooms and access requirements. Inefficient and inadequate space will continue to hinder operations, jeopardizing safety and the department's ability to meet minimum response times for crash and rescue operations. The deteriorated facility will require increasing numbers of man hours and SRM funds to operate and maintain.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Requirements" and is in compliance with the installation development plan approved by the base Facilities Board. Antiterrorism/Force Protection requirements have been considered in the development of this project. The 172d Airlift Wing has a fire protection agreement with the Jackson International Airport, which establishes the base fire department as primary crash and rescue responders for the civilian airport, requiring firefighters to meet both DoD and FAA response times. An economic analysis has been prepared comparing the alternatives of constructing one large fire station, constructing main &amp; satellite facilities, revitalization of existing, and status quo operation. New construction of a main and satellite fire station has been found to be the best life-cycle cost alternative. Design will determine adequate sizes for the main and satellite station with total project scope not to exceed 19,400 SF. The existing fire station (10,694 SF) falls in the footprint of the new satellite fire station and will be demolished as part of the construction. This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air National Guard requirements. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders.</p>		

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAY 2021																																
3. INSTALLATION AND LOCATION JACKSON INTERNATIONAL AIRPORT, MISSISSIPPI																																		
5. PROJECT TITLE FIRE CRASH AND RESCUE STATION	7. PROJECT NUMBER LRXQ109002																																	
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<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>APR 2017</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>No</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2021</td> <td>100%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>MAR 2019</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>MAY 2020</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>No</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>391</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>244</td> </tr> <tr> <td>(c) Total</td> <td>635</td> </tr> <tr> <td>(d) Contract</td> <td>635</td> </tr> <tr> <td>(e) In-House</td> <td>0</td> </tr> </table> <p>(4) Contract Award (Month/Year) MAR 2022</p> <p>(5) Construction Start MAY 2022</p> <p>(6) Construction Completion OCT 2023</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-7005</p>			(a) Date Design Started	APR 2017	(b) Parametric Cost Estimates used to develop costs	No	(c) Percent Complete as of Jan 2021	100%	* (d) Date 35% Designed	MAR 2019	(e) Date Design Complete	MAY 2020	(f) Type of Design Contract	Design-Bid-Build	(g) Energy Study/Life-Cycle analysis was/will be performed	No	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	391	(b) All Other Design Costs	244	(c) Total	635	(d) Contract	635	(e) In-House	0
(a) Date Design Started	APR 2017																													
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(e) In-House	0																													

1. COMPONENT  ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021			
3. INSTALLATION AND LOCATION  Schenectady County Airport, Scotia, NY		4. AREA CONSTR COST INDEX 1.07			
5. FREQUENCY AND TYPE OF UTILIZATION  Four Unit Training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.					
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS  Naval Reserve Center (on airfield - within 1 mile)					
7. PROJECTS REQUESTED IN THIS PROGRAM					
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u> START	<u>COMPLETE</u>
171-212	C-130 Flight Simulator Facility	1,059 SM (11,400 SF)	10,800	Mar 19	Mar 21
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved			<u>2/26/2014</u> (Date)		
9. LAND ACQUISITION REQUIRED			0 (Number of Acres)		
10. PROJECTS PLANNED IN NEXT FOUR YEARS					
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)		

1. COMPONENT ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAY 2021		
3. INSTALLATION AND LOCATION  Schenectady County Airport, Scotia, NY							
11. PERSONNEL STRENGTH AS OF 06-Oct-20							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	536	79	442	15	689	147	542
ACTUAL	509	73	421	15	638	126	512
12. RESERVE UNIT DATA							
	<u>UNIT DESIGNATION</u>				<u>STRENGTH</u>		
					<u>AUTHORIZED</u>		<u>ACTUAL</u>
	109 AMXS				83		64
	109 AW				46		42
	109 CES				48		37
	109 CF				37		31
	109 CPTF				14		14
	109 FSS				60		54
	109 LRS				126		121
	109 MDG				59		62
	109 MOF				18		17
	109 MSG				18		13
	109 MXG				19		17
	109 MXS				226		167
	109 OG				14		13
	109 OSS				43		46
	109 SFS				74		65
	109 STUFLT				3		89
	139 AES				100		83
	139 AS				174		161
	Other				56		49
				Totals	1218		1145
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>				<u>AUTHORIZED</u>		<u>ACTUAL</u>
	C-130H				10		12
	Vehicles				99		91
	Vehicle Equivalentents				340.5		340
	ASE Equipment				153		144

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021	
3. INSTALLATION AND LOCATION SCHENECTADY COUNTY AIRPORT, NEW YORK			4. PROJECT TITLE C-130 FLIGHT SIMULATOR FACILITY		
5. PROGRAM ELEMENT 54332F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER VBDZ179043	8. PROJECT COST(\$000) \$10,800		
<b>9. COST ESTIMATES</b>					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
C-130 FLIGHT SIMULATOR TRAINING FACILITY		SF	11,400		7,790
FLIGHT SIMULATOR (171212)		SF	11,400	680	( 7,752)
DEMOLISH HUT AREA		SF	1,536	25	( 38)
SUPPORTING FACILITIES					1,470
UTILITIES		LS			( 400)
PAVEMENTS		LS			( 350)
SITE IMPROVEMENTS		LS			( 300)
COMMUNICATIONS SUPPORT		LS			( 200)
FIRE PROTECTION SUPPORT		LS			( 220)
SUSTAINABILITY & ENERGY MEASURES		LS			400
SUBTOTAL					9,660
CONTINGENCY (5%)					483
TOTAL CONTRACT COST					10,143
SUPERVISION, INSPECTION AND OVERHEAD (6%)					609
TOTAL REQUEST					10,752
TOTAL REQUEST (ROUNDED)					10,800
10. Description of Proposed Construction: Construct a high-bay, C-130 flight simulator facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Bridge crane and roll-up door. Air Conditioning: 100 Tons.					
11. REQUIREMENT: 11,400 SF ADEQUATE: 0 SF SUBSTANDARD: 0 SF PROJECT: C-130 Flight Simulator Facility (New Mission) REQUIREMENT: The base requires a properly sited, adequately sized, and appropriately configured flight simulator facility house a flight simulator to train aircrews to fly the 14 PAA C/LC-130 aircraft assigned to this installation. Functional areas include a 2-story high bay to house flight simulator, briefing rooms, administrative areas for training and support staff, equipment and maintenance rooms, storage spaces, communications room supporting simulator operations, mechanical and electrical utility rooms, and latrine facilities. CURRENT SITUATION: The installation is scheduled to receive a new simulator and currently does not have adequate facilities to house it. Crews perform training and meet qualification requirements by either flying existing based aircraft or performing temporary duty at an installation that has an appropriate simulator. Given the unique nature of this unit's mission in the Arctic and Antarctic environments and hours of extended darkness during deployments, environmental conditions dictate that currency and proficiency have to be obtained outside the mission environment, which could require long distance travel in order to attain and retain flight currencies and mission-ready qualifications. IMPACT IF NOT PROVIDED: No facility will be available to house the new simulator being procured for the 109th Airlift Wing. Lack of an existing facility affects the number of certified pilots					



1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAY 2021
3. INSTALLATION AND LOCATION SCHENECTADY COUNTY AIRPORT, NEW YORK		
5. PROJECT TITLE C-130 FLIGHT SIMULATOR FACILITY		7. PROJECT NUMBER VBDZ179043
12. SUPPLEMENTAL DATA:		
a. Estimated Design Data:		
(1) Status:		
(a) Date Design Started		MAR 2019
(b) Parametric Cost Estimates used to develop costs		NO
(c) Percent Complete as of Jan 2021		35%
* (d) Date 35% Designed		MAR 2020
(e) Date Design Complete		MAR 2021
(f) Type of Design Contract		Design-Bid-Build
(g) Energy Study/Life-Cycle analysis was/will be performed		YES
(2) Basis:		
(a) Standard or Definitive Design -		NO
(b) Where Design Was Most Recently Used -		N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):		(\$000)
(a) Production of Plans and Specifications		397
(b) All Other Design Costs		207
(c) Total		542
(d) Contract		542
(e) In-House		
(4) Contract Award (Month/Year)		APR 2022
(5) Construction Start		MAY 2022
(6) Construction Completion		AUG 2023
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.		
b. Equipment associated with this project will be provided from other appropriations:		N/A
EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FY APPROPRIATED OR REQUESTED
		COST (\$000)
POINT OF CONTACT: NGB/A4AD (240) 612-7005		

1. COMPONENT  ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021																		
3. INSTALLATION AND LOCATION  Camp Perry ANG Station, Port Clinton, OH		4. AREA CONSTR COST INDEX  0.94																		
5. FREQUENCY AND TYPE OF UTILIZATION  Ohio Air National Guard RED HORSE Unit (primary). 1 RSD/ Month, 15 Days of Annual Training (minimum) per year. Coast Guard and Navy Sea Cadet Program utilizes facilities for 1 RSD/Month and annual training as well.																				
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS  1 Army National Guard Training Center (co-located); 1 U.S. Coast Guard Reserve, 1 U.S. Coast Guard (active), 2 Army National Guard Units																				
7. PROJECTS REQUESTED IN THIS PROGRAM  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> <th colspan="2" style="text-align: left;"><u>DESIGN STATUS</u></th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th style="text-align: left;"><u>START</u></th> <th style="text-align: left;"><u>COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>442-758</td> <td>RED HORSE Logistics Complex</td> <td>2,136 SM (23,000 SF)</td> <td>7,800</td> <td>Jul 18</td> <td>Sep 21</td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>						<u>START</u>	<u>COMPLETE</u>	442-758	RED HORSE Logistics Complex	2,136 SM (23,000 SF)	7,800	Jul 18	Sep 21
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>																
				<u>START</u>	<u>COMPLETE</u>															
442-758	RED HORSE Logistics Complex	2,136 SM (23,000 SF)	7,800	Jul 18	Sep 21															
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved  <div style="text-align: right;">6/1/2017 (Date)</div>																				
9. LAND ACQUISITION REQUIRED  <div style="text-align: right;">0 (Number of Acres)</div>																				
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1. COMPONENT  ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021
3. INSTALLATION AND LOCATION  Camp Perry ANG Station, Port Clinton, OH		
11. PERSONNEL STRENGTH AS OF 06-Oct-20		
	PERMANENT	GUARD/RESERVE
	<u>TOTAL</u> <u>OFFICER</u> <u>ENLISTED</u> <u>CIVILIAN</u>	<u>TOTAL</u> <u>OFFICER</u> <u>ENLISTED</u>
AUTHORIZED	33            3            17            13	210          10          200
ACTUAL	32            3            17            12	190          12          178
12. RESERVE UNIT DATA		
<u>UNIT DESIGNATION</u>	<u>STRENGTH</u>	
	<u>AUTHORIZED</u>	<u>ACTUAL</u>
200        RHS	210	190
200        STUFLT	0	32
Totals	210	222
13. MAJOR EQUIPMENT AND AIRCRAFT		
<u>TYPE</u>	<u>AUTHORIZED</u>	<u>ACTUAL</u>
Vehicles	109	100
Vehicle Equivalent	273	273

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021
3. INSTALLATION AND LOCATION CAMP PERRY ANG STATION, OHIO			4. PROJECT TITLE RED HORSE LOGISTICS COMPLEX	
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER EUBC009109	8. PROJECT COST(\$000) \$7,800	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
RED HORSE LOGISTICS COMPLEX	SM	2,136		5,477
VEHICLE MAINTENANCE SHOP (214425)	SM	502	3,229	( 1,621)
REFUELER MAINTENANCE BAY (214467)	SM	74	3,229	( 239)
VEHICLE OPS ADMIN (610121)	SM	65	3,714	( 241)
BASE SUPPLY ADMIN (610122)	SM	93	3,714	( 345)
LOGISTICS READINESS (171445)	SM	46	3,714	( 171)
BASE SUPPLY WAREHOUSE (422758)	SM	1,189	1,884	( 2,240)
COMBAT ARMS TRAINING (171476)	SM	167	3,714	( 620)
SUPPORTING FACILITIES				1,393
UTILITIES	LS			( 300)
PAVEMENTS	LS			( 500)
DEMOLITION	SM	1,821	161	( 293)
COMMUNICATIONS SUPPORT	LS			( 100)
SITE IMPROVEMENTS	LS			( 200)
SUSTAINABILITY AND ENERGY MEASURES	LS			110
SUBTOTAL				6,980
CONTINGENCY (5%)				349
TOTAL CONTRACT COST				7,329
SUPERVISION, INSPECTION AND OVERHEAD (6%)				440
TOTAL REQUEST				7,769
TOTAL REQUEST (ROUNDED)				7,800
10. Description of Proposed Construction: Construct a RED HORSE Logistics Complex incorporating Vehicle Maintenance, Refueler Maintenance, Supply Warehouse, Combat Arms Training and Maintenance (CATM), with associated functional and administrative space utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. <u>Air Conditioning: 175 KW.</u>				
11. REQUIREMENT: 2,137 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM PROJECT: RED HORSE Logistics Complex (Current Mission) <u>REQUIREMENT:</u> This project supports the 200th RED HORSE Squadron (RHS) mission at Camp Perry Air National Guard Station (ANGS) in Port Clinton, Ohio. The base requires a properly sized and configured logistics complex to enable the mission for training and current operations tempo. The functional requirements include supply warehouse, vehicle maintenance and refueler maintenance, Combat Arms Training and Maintenance (CATM), and administrative space for logistics personnel. This will be a single location for the logistics flight for shipping and receiving along with the maintenance of the large vehicle fleet of RED HORSE. The project will also include a large, external hardstand for the staging of mobility assets for rapid deployment.				

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<p><u>CURRENT SITUATION</u>: The base's current storage space is inadequate is also spread out amongst several buildings creating inefficiencies in the supply and logistics operation, as well as daily command and control. Size and configuration of existing space is limiting functional use. The main facilities are on the corner of two roads and does not meet Anti-Terrorism/Force Protection (AT/FP) standards so the site will be set back to comply with standards. When receiving deliveries, tractor trailer trucks cannot access the base supply loading docks without driving on grass and blocking traffic. The existing vehicle maintenance facility is of the oldest on the installation and in incapable of renovations to make the facility better due to the nature of the facility's construction. The installation lacks the ability to properly maintain the unit's refueler truck.</p> <p><u>IMPACT IF NOT PROVIDED</u>: The base will continue to function inefficiently and in a disjointed manner. Some wartime preparations will continue to be completed in a space where safety could easily be compromised. Traffic flow on the base will continue to be impacted also compromising safety. Vehicle maintenance will continue to be an inefficient function for the unit.</p> <p><u>ADDITIONAL</u>: This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. Antiterrorism/Force Protection requirements have been considered in the development of this project. This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air National Guard requirements. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction. The following buildings will be demolished as a result of this project: 4 (at 892 SM), 21 (at 465 SM) and 19 (at 465 SM) for a total of 1,822 SM. Buildings 21 and 19 are in the way of construction.</p> <table border="1" data-bbox="235 1312 1412 1585"> <thead> <tr> <th>CatCode</th> <th>Requirement</th> <th>Adequate</th> <th>Substandard</th> </tr> </thead> <tbody> <tr> <td>171-445</td> <td>RESERVE FORCES O&amp;T FACILITY</td> <td>46 SM</td> <td>0 SM</td> </tr> <tr> <td>171-476</td> <td>COMBAT ARMS TRNG &amp; MAINT ( CATM)</td> <td>167 SM</td> <td>0 SM</td> </tr> <tr> <td>214-425</td> <td>VEHICLE MAINTENANCE SHOP</td> <td>502 SM</td> <td>0 SM</td> </tr> <tr> <td>214-467</td> <td>REFUELING VEHICLE SHOP</td> <td>74 SM</td> <td>0 SM</td> </tr> <tr> <td>442-758</td> <td>BASE SUPPLY &amp; EQUIPMENT WHSE</td> <td>1,189 SM</td> <td>0 SM</td> </tr> <tr> <td>610-121</td> <td>VEHICLE OPERATIONS ADMIN</td> <td>65 SM</td> <td>0 SM</td> </tr> <tr> <td>610-122</td> <td>BASE SUPPLY ADMINISTRATION</td> <td>93 SM</td> <td>0 SM</td> </tr> </tbody> </table> <table border="1" data-bbox="211 1648 1063 1879"> <tbody> <tr> <td>VEHICLE MAINTENANCE SHOP (214425)</td> <td>502 SM = 5,400 SF</td> </tr> <tr> <td>REFUELER MAINTENANCE BAY (214467)</td> <td>74 SM = 800 SF</td> </tr> <tr> <td>VEHICLE OPS ADMIN (610121)</td> <td>65 SM = 700 SF</td> </tr> <tr> <td>BASE SUPPLY ADMIN (610122)</td> <td>93 SM = 1,000 SF</td> </tr> <tr> <td>LOGISTICS READINESS (171445)</td> <td>46 SM = 500 SF</td> </tr> <tr> <td>BASE SUPPLY WAREHOUSE (422758)</td> <td>1,189 SM = 12,800 SF</td> </tr> <tr> <td>COMBAT ARMS TRAINING (171476)</td> <td>167 SM = 1,800 SF</td> </tr> </tbody> </table>			CatCode	Requirement	Adequate	Substandard	171-445	RESERVE FORCES O&T FACILITY	46 SM	0 SM	171-476	COMBAT ARMS TRNG & MAINT ( CATM)	167 SM	0 SM	214-425	VEHICLE MAINTENANCE SHOP	502 SM	0 SM	214-467	REFUELING VEHICLE SHOP	74 SM	0 SM	442-758	BASE SUPPLY & EQUIPMENT WHSE	1,189 SM	0 SM	610-121	VEHICLE OPERATIONS ADMIN	65 SM	0 SM	610-122	BASE SUPPLY ADMINISTRATION	93 SM	0 SM	VEHICLE MAINTENANCE SHOP (214425)	502 SM = 5,400 SF	REFUELER MAINTENANCE BAY (214467)	74 SM = 800 SF	VEHICLE OPS ADMIN (610121)	65 SM = 700 SF	BASE SUPPLY ADMIN (610122)	93 SM = 1,000 SF	LOGISTICS READINESS (171445)	46 SM = 500 SF	BASE SUPPLY WAREHOUSE (422758)	1,189 SM = 12,800 SF	COMBAT ARMS TRAINING (171476)	167 SM = 1,800 SF
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<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>JUL 2018</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>No</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2021</td> <td>35%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>AUG 2020</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>SEP 2021</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>No</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>365</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>265</td> </tr> <tr> <td>(c) Total</td> <td>530</td> </tr> <tr> <td>(d) Contract</td> <td>530</td> </tr> <tr> <td>(e) In-House</td> <td>0</td> </tr> </table> <p>(4) Contract Award (Month/Year) APR 2022</p> <p>(5) Construction Start MAY 2022</p> <p>(6) Construction Completion AUG 2023</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-7005</p>			(a) Date Design Started	JUL 2018	(b) Parametric Cost Estimates used to develop costs	No	(c) Percent Complete as of Jan 2021	35%	* (d) Date 35% Designed	AUG 2020	(e) Date Design Complete	SEP 2021	(f) Type of Design Contract	Design-Bid-Build	(g) Energy Study/Life-Cycle analysis was/will be performed	No	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	365	(b) All Other Design Costs	265	(c) Total	530	(d) Contract	530	(e) In-House	0
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1. COMPONENT <b>ANG</b>	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021																			
3. INSTALLATION AND LOCATION  McEntire Joint National Guard Base, Eastover, SC		4. AREA CONSTR COST INDEX  0.86																			
5. FREQUENCY AND TYPE OF UTILIZATION  Twelve monthly unit assemblies per year, 15 days annual field training per year, daily use by technician/AGR force and for training, flight training 4-7 days per week, deployment preparation and recovery; Air Force, Army and Marine tactical exercises, use																					
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS  1 Active Army Base, 6 Army National Guard Armories, 1 Army National Guard Training Center, 1 Marine Corp Reserve Armory, 1 Army National Guard Combined Support maintenance Shop (CSMS), 1 Army Aviation Support Facility, 1 Army National Guard State Headquarters.																					
7. PROJECTS REQUESTED IN THIS PROGRAM  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> <th colspan="2" style="text-align: left;"><u>DESIGN STATUS</u></th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th style="text-align: left;"><u>START</u></th> <th style="text-align: left;"><u>COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>171-212</td> <td>F-16 Mission Training Center</td> <td>1,208 SM (13,000 SF)</td> <td>9,800</td> <td>Jun 18</td> <td>Aug 21</td> </tr> </tbody> </table>				CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>						<u>START</u>	<u>COMPLETE</u>	171-212	F-16 Mission Training Center	1,208 SM (13,000 SF)	9,800	Jun 18	Aug 21
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9. LAND ACQUISITION REQUIRED			0 (Number of Acres)																		
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1. COMPONENT ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAY 2021		
3. INSTALLATION AND LOCATION  McEntire Joint National Guard Base, Eastover, SC							
11. PERSONNEL STRENGTH AS OF 06-Oct-20							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	922	68	697	157	1095	103	992
ACTUAL	526	43	377	106	794	80	714
12. RESERVE UNIT DATA							
<u>UNIT DESIGNATION</u>		<u>AUTHORIZED</u>		<u>STRENGTH</u>		<u>ACTUAL</u>	
157	FS	43				39	
169	AMXS	313				217	
169	CES	101				96	
169	CPTF	16				11	
169	CS	64				48	
169	FSS	77				61	
169	FW	42				47	
169	LRS	111				78	
169	MDG	61				49	
169	MOF	35				15	
169	MSG	22				12	
169	MXG	32				24	
169	MXS	373				207	
169	OG	15				7	
169	OSS	70				44	
169	SFS	132				66	
169	State	74				69	
169	STUFLT	0				72	
245	ATCS	116				65	
316	FS	100				99	
HQ	STHQ	40				24	
Totals		1837				1350	
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>	<u>AUTHORIZED</u>		<u>ACTUAL</u>			
	F-16D	24		26			
	Vehicles	144		136			
	Vehicle Equivalent	362		352			
	ASE Equipment	268		258			

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021
3. INSTALLATION AND LOCATION MCENTIRE JOINT NATIONAL GUARD BASE, SOUTH CAROLINA			4. PROJECT TITLE F-16 MISSION TRAINING CENTER	
5. PROGRAM ELEMENT 52620F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER PSTE189001	8. PROJECT COST(\$000) \$9,800	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
F-16 MISSION TRAINING CENTER	SM	1,208		8,062
MISSION TRAINING CENTER (171212)	SM	1,208	6,674	( 8,062)
SUPPORTING FACILITIES				610
UTILITIES	LS			( 125)
PAVEMENTS	LS			( 125)
SITE IMPROVEMENTS	LS			( 100)
ALARMS	LS			( 100)
COMMUNICATIONS SUPPORT	LS			( 100)
DEMOLITION	SM	372	161	( 60)
ENERGY AND SUSTAINABILITY MEASURES	LS			125
SUBTOTAL				8,797
CONTINGENCY (5%)				440
TOTAL CONTRACT COST				9,237
SUPERVISION, INSPECTION AND OVERHEAD (6%)				554
TOTAL REQUEST				9,791
TOTAL REQUEST (ROUNDED)				9,800
10. Description of Proposed Construction: Construct a 4-ship F-16 Mission Training Center (MTC) facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Raised flooring as required, high bay area for simulators, and Secure Compartmentalized Information Facility (SCIF) specifications and construction in accordance with ICD/ICS 705 is necessary for most of the facility. Demolish building 958. Air Conditioning: 105 KW.				
11. REQUIREMENT: 1,208 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM <u>PROJECT:</u> Construct 4-Ship F-16 Mission Training Center (New Mission) <u>REQUIREMENT:</u> The installation requires a facility to support a new 4-ship F-16 MTC simulator capable of housing 4 simulator bays, training rooms, administrative support areas, storage, and latrine space, certified to ICD/ICS 705 standards. Each simulator bay must be large enough to accommodate an eight channel, 360-degree field of view) display with sufficient space to facilitate installation, removal, operation, and servicing. <u>CURRENT SITUATION:</u> The installation is scheduled to receive mission training systems, and the base does not possess excess or suitable space to bed down the simulator devices and conduct supporting training and maintenance activities. The Mission Training Center is ideally suited for inclusion in or near the Squadron Operations facility, but that building is already at capacity and cannot accommodate this enhancement. No other facility is available to appropriately accommodate this function as well. The function needs to be in close proximity to Squadron Operations and the flight line				

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3. INSTALLATION AND LOCATION MCENTIRE JOINT NATIONAL GUARD BASE, SOUTH CAROLINA										
5. PROJECT TITLE F-16 MISSION TRAINING CENTER	7. PROJECT NUMBER PSTE189001									
<p>in order to maximize training value and support efficient flight operations and aircrew training and management.</p> <p><b>IMPACT IF NOT PROVIDED:</b> The unit would not be able to gain maximum efficient in the training, proficiency, and mission readiness of its fighter pilots without this facility and possession of its advance training capability. Lack of realistic multi-aircraft, multi-platform combat training directly and severely reduces the mission effectiveness and combat readiness of the Wing. Personnel would need to perform temporary duty elsewhere in order to obtain requisite training, resulting in increased costs for travel and increased time away from the installation and other duty assignments for personnel. Personnel utilization would be highly inefficient. High value, state-of-the-art equipment would go un-used occupy space in storage.</p> <p><b>ADDITIONAL:</b> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction. The following buildings will be demolished as a result of this project: 958 (at 372 SM). Building 958 is in the way of construction.</p> <table border="0" data-bbox="235 1071 1421 1144"> <thead> <tr> <th>CatCode</th> <th>Requirement</th> <th>Adequate</th> <th>Substandard</th> </tr> </thead> <tbody> <tr> <td>171-212 FLGHT SIMULATOR TRAINING</td> <td>1,208 SM</td> <td>0 SM</td> <td>0 SM</td> </tr> </tbody> </table> <p>MISSION TRAINING CENTER (171212)      1,208 SM = 13,000 SF</p>			CatCode	Requirement	Adequate	Substandard	171-212 FLGHT SIMULATOR TRAINING	1,208 SM	0 SM	0 SM
CatCode	Requirement	Adequate	Substandard							
171-212 FLGHT SIMULATOR TRAINING	1,208 SM	0 SM	0 SM							

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3. INSTALLATION AND LOCATION MCENTIRE JOINT NATIONAL GUARD BASE, SOUTH CAROLINA																														
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<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>JUN 2018</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>No</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2021</td> <td>95%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>JAN 2020</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>FEB 2021</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>No</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>370</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>261</td> </tr> <tr> <td>(c) Total</td> <td>631</td> </tr> <tr> <td>(d) Contract</td> <td>631</td> </tr> <tr> <td>(e) In-House</td> <td>0</td> </tr> </table> <p>(4) Contract Award (Month/Year) JAN 2022</p> <p>(5) Construction Start APR 2022</p> <p>(6) Construction Completion JUL 2023</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-7005</p>			(a) Date Design Started	JUN 2018	(b) Parametric Cost Estimates used to develop costs	No	(c) Percent Complete as of Jan 2021	95%	* (d) Date 35% Designed	JAN 2020	(e) Date Design Complete	FEB 2021	(f) Type of Design Contract	Design-Bid-Build	(g) Energy Study/Life-Cycle analysis was/will be performed	No	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	370	(b) All Other Design Costs	261	(c) Total	631	(d) Contract	631	(e) In-House	0
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(e) In-House	0																													

1. COMPONENT  ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021																		
3. INSTALLATION AND LOCATION  Joe Foss Field, Sioux Falls, SD		4. AREA CONSTR COST INDEX  1.03																		
5. FREQUENCY AND TYPE OF UTILIZATION  Twelve monthly assemblies per year along with necessary local annual field training days are utilized for required readiness training. Daily use is made of all facilities by technician/AGR force.																				
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS  One (1) Army National Guard Armory and 1 Army/Navy Reserve Facility																				
7. PROJECTS REQUESTED IN THIS PROGRAM  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> <th colspan="2" style="text-align: left;"><u>DESIGN STATUS</u></th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th style="text-align: left;"><u>START</u></th> <th style="text-align: left;"><u>COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>171-212</td> <td>F-16 Mission Training Center</td> <td>1,208 SM (13,000 SF)</td> <td>9,800</td> <td>Oct 18</td> <td>Mar 21</td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>						<u>START</u>	<u>COMPLETE</u>	171-212	F-16 Mission Training Center	1,208 SM (13,000 SF)	9,800	Oct 18	Mar 21
CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	<u>DESIGN STATUS</u>																
				<u>START</u>	<u>COMPLETE</u>															
171-212	F-16 Mission Training Center	1,208 SM (13,000 SF)	9,800	Oct 18	Mar 21															
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: No joint project with ANG.  <div style="text-align: right;">5/24/2018 (Date)</div>																				
9. LAND ACQUISITION REQUIRED  <div style="text-align: right;">0 (Number of Acres)</div>																				
10. PROJECTS PLANNED IN NEXT FOUR YEARS  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)														
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1. COMPONENT ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAY 2021		
3. INSTALLATION AND LOCATION  Joe Foss Field, Sioux Falls, SD							
11. PERSONNEL STRENGTH AS OF 06-Oct-20							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	459	53	371	35	1063	119	944
ACTUAL	448	52	362	34	1109	116	993
12. RESERVE UNIT DATA							
<u>UNIT DESIGNATION</u>		<u>STRENGTH</u>					
		<u>AUTHORIZED</u>	<u>ACTUAL</u>				
114	AMXS	203	213				
114	CES	94	93				
114	CF	34	33				
114	CPTF	12	11				
114	FSS	52	48				
114	FW	44	42				
114	LRS	79	74				
114	MDG	61	60				
114	MOF	26	21				
114	MSG	14	16				
114	MXG	24	21				
114	MXS	239	258				
114	OG	8	6				
114	OSS	34	32				
114	SFS	76	69				
114	STUFLT	3	53				
175	FS	31	29				
HQ	ANG	29	30				
Totals		1063	1109				
13. MAJOR EQUIPMENT AND AIRCRAFT							
<u>TYPE</u>		<u>AUTHORIZED</u>	<u>ACTUAL</u>				
F-16		18	24				
Vehicles		106	106				
Vehicle Equivalent		311	311				
ASE Equipment		229	225				

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021	
3. INSTALLATION AND LOCATION JOE FOSS FIELD, SOUTH DAKOTA			4. PROJECT TITLE F-16 MISSION TRAINING CENTER		
5. PROGRAM ELEMENT 52620F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER LUXC189012	8. PROJECT COST(\$000) \$9,800		
<b>9. COST ESTIMATES</b>					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
F-16 MISSION TRAINING CENTER		SM	1,208		8,062
MISSION TRAINING CENTER (171212)		SM	1,208	6,674	( 8,062)
SUPPORTING FACILITIES					575
UTILITIES		LS			( 125)
PAVEMENTS		LS			( 125)
SITE IMPROVEMENTS		LS			( 125)
ALARMS		LS			( 100)
COMMUNICATIONS SUPPORT		LS			( 100)
ENERGY AND SUSTAINABILITY MEASURES		LS			150
SUBTOTAL					8,787
CONTINGENCY (5%)					439
TOTAL CONTRACT COST					9,226
SUPERVISION, INSPECTION AND OVERHEAD (6%)					554
TOTAL REQUEST					9,780
TOTAL REQUEST (ROUNDED)					9,800
10. Description of Proposed Construction: Construct a 4-ship F-16 Mission Training Center (MTC) facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements: Raised flooring as required, high bay area for simulators, and Secure Compartmentalized Information Facility (SCIF) specifications and construction in accordance with ICD/ICS 705 is necessary for most of the facility.					
11. REQUIREMENT: 1,208 SM ADEQUATE: 0 SM SUBSTANDARD: 0 SM PROJECT: Construct 4-Ship F-16 Mission Training Center (New Mission) REQUIREMENT: The installation requires a facility to support a new 4-ship F-16 MTC simulator capable of housing 4 simulator bays, training rooms, administrative support areas, storage, and latrine space, certified to ICD/ICS 705 standards. Each simulator bay must be large enough to accommodate an eight channel, 360-degree field of view) display with sufficient space to facilitate installation, removal, operation, and servicing. CURRENT SITUATION: The installation is scheduled to receive mission training systems, and the base does not possess excess or suitable space to bed down the simulator devices and conduct supporting training and maintenance activities. The Mission Training Center is ideally suited for inclusion in or near the Squadron Operations facility, but that building is already at capacity and cannot accommodate this enhancement. No other facility is available to appropriately accommodate this function as well. The function needs to be in close proximity to Squadron Operations and the flight line in order to maximize training value and support efficient flight operations and aircrew training and management.					

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3. INSTALLATION AND LOCATION JOE FOSS FIELD, SOUTH DAKOTA										
5. PROJECT TITLE F-16 MISSION TRAINING CENTER	7. PROJECT NUMBER LUXC189012									
<p><u>IMPACT IF NOT PROVIDED:</u> The unit would not be able to gain maximum efficient in the training, proficiency, and mission readiness of its fighter pilots without this facility and possession of its advance training capability. Lack of realistic multi-aircraft, multi-platform combat training directly and severely reduces the mission effectiveness and combat readiness of the Wing. Personnel would need to perform temporary duty elsewhere in order to obtain requisite training, resulting in increased costs for travel and increased time away from the installation and other duty assignments for personnel. Personnel utilization would be highly inefficient. High value, state-of-the-art equipment would go un-used occupy space in storage.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction.</p> <table data-bbox="235 976 1412 1045"> <thead> <tr> <th>CatCode</th> <th>Requirement</th> <th>Adequate</th> <th>Substandard</th> </tr> </thead> <tbody> <tr> <td>171-212 FLGHT SIMULATOR TRAINING</td> <td>1,208 SM</td> <td>0 SM</td> <td>0 SM</td> </tr> </tbody> </table> <p>MISSION TRAINING CENTER (171212)      1,208 SM = 13,000 SF</p>			CatCode	Requirement	Adequate	Substandard	171-212 FLGHT SIMULATOR TRAINING	1,208 SM	0 SM	0 SM
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1. COMPONENT  ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021																				
3. INSTALLATION AND LOCATION  Dane County Regional-Truax Field, Madison, WI		4. AREA CONSTR COST INDEX 1.07																				
5. FREQUENCY AND TYPE OF UTILIZATION  Installation in use 24/7 365 Due to Alert Mission UTA: One per Month The MXG does a SUTA each month and has a permanent night shift. Annual Training Days: Enlisted 12,508 Special Training Days: Enlisted 2,966																						
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS  Four Army National Guard Center, two Army Reserve Centers and one Naval/Marine Reserve Center. 1 Naval/Marine Corps Reserve Center 2 Miles 2 Army Reserve Center 2 Miles/7 Miles																						
7. PROJECTS REQUESTED IN THIS PROGRAM  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">CATEGORY CODE</th> <th rowspan="2">PROJECT TITLE</th> <th rowspan="2">SCOPE</th> <th rowspan="2">COST \$(000)</th> <th colspan="2">DESIGN STATUS</th> </tr> <tr> <th>START</th> <th>COMPLETE</th> </tr> </thead> <tbody> <tr> <td>171-450</td> <td>Medical Readiness Facility</td> <td>1,733 SM (18,650 SF)</td> <td>13,200</td> <td>Mar 19</td> <td>Jan 21</td> </tr> <tr> <td>211-179</td> <td>F-35: 3-Bay Specialized Hangar</td> <td>2,889 SM (31,100 SF)</td> <td>31,000</td> <td>Feb 19</td> <td>May 21</td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	DESIGN STATUS		START	COMPLETE	171-450	Medical Readiness Facility	1,733 SM (18,650 SF)	13,200	Mar 19	Jan 21	211-179	F-35: 3-Bay Specialized Hangar	2,889 SM (31,100 SF)	31,000	Feb 19	May 21
CATEGORY CODE	PROJECT TITLE	SCOPE					COST \$(000)	DESIGN STATUS														
			START	COMPLETE																		
171-450	Medical Readiness Facility	1,733 SM (18,650 SF)	13,200	Mar 19	Jan 21																	
211-179	F-35: 3-Bay Specialized Hangar	2,889 SM (31,100 SF)	31,000	Feb 19	May 21																	
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved  <div style="text-align: right;">9/1/2019 (Date)</div>																						
9. LAND ACQUISITION REQUIRED  <div style="text-align: right;">0 (Number of Acres)</div>																						
10. PROJECTS PLANNED IN NEXT FOUR YEARS  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>CATEGORY CODE</th> <th>PROJECT TITLE</th> <th>SCOPE</th> <th>COST \$(000)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)																
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1. COMPONENT ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAY 2021		
3. INSTALLATION AND LOCATION  Dane County Regional-Truax Field, Madison, WI							
11. PERSONNEL STRENGTH AS OF 06-Oct-20							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	518	53	358	107	1115	139	976
ACTUAL	500	50	359	91	1120	156	964
12. RESERVE UNIT DATA							
	<u>UNIT DESIGNATION</u>				<u>STRENGTH</u>		
					<u>AUTHORIZED</u>		<u>ACTUAL</u>
	115 AMXS				227		202
	115 CES				54		50
	115 CF				37		35
	115 CPTF				12		13
	115 DET				47		59
	115 FSS				65		66
	115 FW				50		59
	115 LRS				82		79
	115 MDG				53		55
	115 MOF				23		17
	115 MSG				16		13
	115 MXG				27		25
	115 MXS				261		209
	115 OG				13		12
	115 OSS				39		39
	115 SFS				74		68
	115 STUFLT				3		92
	176 FS				32		27
	378 FS				65		52
	ANG STHQ				36		45
				Totals	1216		1217
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>				<u>AUTHORIZED</u>		<u>ACTUAL</u>
	F-16				18		26
	RC-26				1		1
	Vehicles				135		115
	ASE Equipment				280		271

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021	
3. INSTALLATION AND LOCATION DANE COUNTY REGIONAL-TRUAX FIELD, WISCONSIN			4. PROJECT TITLE MEDICAL READINESS FACILITY		
5. PROGRAM ELEMENT 52635F	6. CATEGORY CODE 171-450	7. PROJECT NUMBER XGFG139001	8. PROJECT COST(\$000) \$13,200		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
MEDICAL READINESS FACILITY		SM	1,733		9,519
RESERVE FORCES MEDICAL (171450)		SM	1,417	5,791	( 8,206)
MEDICAL STORAGE (442758)		SM	316	4,155	( 1,313)
SUPPORTING FACILITIES					2,361
UTILITIES		LS			( 432)
COMMUNICATIONS SUPPORT		LS			( 203)
PAVEMENTS		LS			( 254)
SITE IMPROVEMENTS		LS			( 457)
ENVIRONMENTAL RESTORATION		LS			( 1,015)
SUBTOTAL					11,880
CONTINGENCY (5%)					594
TOTAL CONTRACT COST					12,474
SUPERVISION, INSPECTION AND OVERHEAD (6%)					748
TOTAL REQUEST					13,222
TOTAL REQUEST (ROUNDED)					13,200
10. Description of Proposed Construction: Construct a medical readiness facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Demolish Buildings 307 and 311. Air Conditioning: 158 KW.					
11. REQUIREMENT: 1,733 SM ADEQUATE: 0 SM SUBSTANDARD: 1,216 SM PROJECT: Medical Readiness Facility (Current Mission) REQUIREMENT: The 115 Fighter Wing (FW) requires an adequately sized and appropriately configured facilities to support its assigned training mission and mobilized activities for 18 PAA F-16 aircraft at Truax Field, Madison, Wisconsin. This project will construct a new combined medical training and Expeditionary Medical Support - Consequence Management (EMEDS-CM) facility with required spaces for medical administration, training functions and warehousing requirements. Project will demolish building 311 and building 307. CURRENT SITUATION: The 115th Medical Group (MDG) currently occupies areas in Buildings 500, 503, 510, and 511 which are undersized, substandard and do not meet current functional standards. Inadequate administrative space makes compliance with patient privacy and HIPPA laws very difficult. Existing space (patient rooms, laboratory, administrative and storage space, etc.) is divided and does not allow the Medical Group staff to receive and see patients efficiently. The addition of the EMEDS-CM mission in 2010 exacerbated existing space deficiencies. The 115 MDG has less than 70% of its authorized space. The combination of space deficiencies and desperate facilities is decreasing the MDG's ability to meet mission needs, maintain wing readiness, and ensure the health of the Fighter Wing.					

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAY 2021												
3. INSTALLATION AND LOCATION DANE COUNTY REGIONAL-TRUAX FIELD, WISCONSIN														
5. PROJECT TITLE MEDICAL READINESS FACILITY	7. PROJECT NUMBER XGFG139001													
<p><u>IMPACT IF NOT PROVIDED:</u> Medical training and administration will continue to operate inefficiently in tight, improperly configured and geographically separated spaces. The EMEDS-CM mission will continue to struggle with integrating their scheduling and training requirements with those of the Medical Group. Acute appointment and scheduling conflicts will continue due to the need for proper patient examination rooms, adequate medical administrative and training areas. Difficulties complying with patient privacy and Health Insurance Portability and Accountability Act (HIPPA) laws due to inadequate administrative areas will continue to be very difficult. The inefficient scheduling and seeing of patients will continue to keep 115 FW members from their respective units and away from their required training activities for longer periods of time. Medical staff will continue to be impeded by space constraints, privacy concerns and having to wait for work space and patient rooms to open before continuing with scheduled exams. <u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the cost efficient over the life of the project. Antiterrorism/Force Protection requirements have been considered in the development of this project. This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air National Guard requirements. Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction. This project will allow for the demolition of buildings 307 and 311 (672 SM / 7,238 SF).</p> <table border="0" data-bbox="235 1276 1412 1375"> <thead> <tr> <th>CatCode</th> <th>Requirement</th> <th>Adequate</th> <th>Substandard</th> </tr> </thead> <tbody> <tr> <td>171-450</td> <td>RESERVE COMPONENT MEDICAL TRNG</td> <td>1,417 SM</td> <td>0 SM</td> </tr> <tr> <td>442-758</td> <td>BASE SUPPLY &amp; EQUIPMENT WHSE</td> <td>316 SM</td> <td>0 SM</td> </tr> </tbody> </table> <p data-bbox="211 1444 1063 1512">RESERVE FORCES MEDICAL (171450)      1,417 SM = 15,250 SF  MEDICAL STORAGE (442758)              316 SM = 3,400 SF</p>			CatCode	Requirement	Adequate	Substandard	171-450	RESERVE COMPONENT MEDICAL TRNG	1,417 SM	0 SM	442-758	BASE SUPPLY & EQUIPMENT WHSE	316 SM	0 SM
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<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <p>(1) Status:</p> <table border="0"> <tr> <td>(a) Date Design Started</td> <td>MAR 2019</td> </tr> <tr> <td>(b) Parametric Cost Estimates used to develop costs</td> <td>No</td> </tr> <tr> <td>(c) Percent Complete as of Jan 2021</td> <td>100%</td> </tr> <tr> <td>* (d) Date 35% Designed</td> <td>FEB 2020</td> </tr> <tr> <td>(e) Date Design Complete</td> <td>JAN 2021</td> </tr> <tr> <td>(f) Type of Design Contract</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0"> <tr> <td>(a) Standard or Definitive Design -</td> <td>No</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used -</td> <td></td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e): (\$000)</p> <table border="0"> <tr> <td>(a) Production of Plans and Specifications</td> <td>30</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td>2,206</td> </tr> <tr> <td>(c) Total</td> <td>2,236</td> </tr> <tr> <td>(d) Contract</td> <td>2,236</td> </tr> <tr> <td>(e) In-House</td> <td>0</td> </tr> </table> <p>(4) Contract Award (Month/Year) DEC 2022</p> <p>(5) Construction Start APR 2023</p> <p>(6) Construction Completion JUN 2023</p> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-7005</p>			(a) Date Design Started	MAR 2019	(b) Parametric Cost Estimates used to develop costs	No	(c) Percent Complete as of Jan 2021	100%	* (d) Date 35% Designed	FEB 2020	(e) Date Design Complete	JAN 2021	(f) Type of Design Contract	Design-Bid-Build	(g) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design -	No	(b) Where Design Was Most Recently Used -		(a) Production of Plans and Specifications	30	(b) All Other Design Costs	2,206	(c) Total	2,236	(d) Contract	2,236	(e) In-House	0
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1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021
3. INSTALLATION AND LOCATION DANE COUNTY REGIONAL-TRUAX FIELD, WISCONSIN			4. PROJECT TITLE F-35: 3-BAY SPECIALIZED HANGAR	
5. PROGRAM ELEMENT 52635F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER XGFG189002	8. PROJECT COST(\$000) \$31,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
3-BAY SPECIALIZED HANGAR	SM	2,889		22,546
FUEL CELL (211179)	SM	836	7,804	( 6,524)
WASHRACK (211159)	SM	1,124	7,804	( 8,772)
WEAPONS LOAD TRAINER (171875)	SM	929	7,804	( 7,250)
SUPPORTING FACILITIES				5,203
DEMOLISH B414	SM	1,846	646	( 1,193)
UTILITIES	LS			( 500)
FIRE PROTECTION	LS			( 1,500)
SITE IMPROVEMENTS	LS			( 400)
PAVEMENTS	LS			( 500)
COMMUNICATIONS	LS			( 110)
ENVIRONMENTAL RESTORATION	LS			( 1,000)
SUSTAINABILITY AND ENERGY MEASURES	LS			375
SUBTOTAL				28,124
CONTINGENCY (5%)				<u>1,406</u>
TOTAL CONTRACT COST				29,530
SUPERVISION, INSPECTION AND OVERHEAD (6%)				<u>1,772</u>
TOTAL REQUEST				31,302
TOTAL REQUEST (ROUNDED)				31,000
10. Description of Proposed Construction: Construct 3-Bay Specialized Hangar to include bays for fuel cell maintenance, enclosed wash rack, and weapons load crew training utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Special Construction Requirements include installing all required power and HVAC to accommodate F-35 operations (overhead infrared radiant heat and ducting/power panels for equipment to provide cooling air/power for aircraft). Install fire protection, fall protection, and lightning protection systems adequate for F-35 operations. Facility will be a three-bay fuel cell/wash rack/weapons load trainer. Demolish Building 414. Construction phasing shall enable continued maintenance of assigned aircraft. Air Conditioning: 175 KW.				
11. REQUIREMENT: 2,889 SM ADEQUATE: 0 SM SUBSTANDARD: 2,973 SM PROJECT: F-35 3-Bay Specialized Hangar (New Mission) REQUIREMENT: The 115th Fighter Wing (FW) has been selected as the preferred location for conversion to the F-35. The F-35 mission at Truax requires a new Fuel Cell/Wash Rack/Weapons Load Trainer to accommodate the aircraft. All F-35 indoor spaces (parking spaces) require access to power (270 VDC power with the 28 VDC interlock), provision of power panels (for equipment to provide cooling air for aircraft avionics), overhead infrared/radiant heating, fire protection, and lightning protection in accordance with applicable regulations and codes.				



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1. COMPONENT  ANG	<b>FY2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>	2. DATE  MAY 2021														
3. INSTALLATION AND LOCATION  Cheyenne Regional Airport, Cheyenne, WY		4. AREA CONSTR COST INDEX 1.01														
5. FREQUENCY AND TYPE OF UTILIZATION  Two unit training assemblies per month; 15 annual training days per person per year; daily use by technician/AGR/Title 5 civilians; and for training.																
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILES RADIUS  One AFB , one Army National Guard Armory , one Naval Reserve Center, and one Civil Support Team.																
7. PROJECTS REQUESTED IN THIS PROGRAM  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="text-align: left;">CATEGORY CODE</th> <th rowspan="2" style="text-align: left;">PROJECT TITLE</th> <th rowspan="2" style="text-align: left;">SCOPE</th> <th rowspan="2" style="text-align: left;">COST \$(000)</th> <th colspan="2" style="text-align: center;">DESIGN STATUS</th> </tr> <tr> <th style="text-align: left;">START</th> <th style="text-align: left;">COMPLETE</th> </tr> </thead> <tbody> <tr> <td>214-425</td> <td>Combined Vehicle Maintenance &amp; ASE Complex</td> <td>2,815 SM (30,300 SF)</td> <td>13,400</td> <td>Mar 19</td> <td>Jan 22</td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)	DESIGN STATUS		START	COMPLETE	214-425	Combined Vehicle Maintenance & ASE Complex	2,815 SM (30,300 SF)	13,400	Mar 19	Jan 22
CATEGORY CODE	PROJECT TITLE	SCOPE					COST \$(000)	DESIGN STATUS								
			START	COMPLETE												
214-425	Combined Vehicle Maintenance & ASE Complex	2,815 SM (30,300 SF)	13,400	Mar 19	Jan 22											
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION The Board recommendations are: Unilateral Construction Approved																
9. LAND ACQUISITION REQUIRED		0 (Number of Acres)														
10. PROJECTS PLANNED IN NEXT FOUR YEARS  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY CODE</th> <th style="text-align: left;">PROJECT TITLE</th> <th style="text-align: left;">SCOPE</th> <th style="text-align: left;">COST \$(000)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			CATEGORY CODE	PROJECT TITLE	SCOPE	COST \$(000)										
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1. COMPONENT ANG	<b>FY 2022 GUARD AND RESERVE MILITARY CONSTRUCTION</b>				2. DATE MAY 2021		
3. INSTALLATION AND LOCATION  Cheyenne Regional Airport, Cheyenne, WY							
11. PERSONNEL STRENGTH AS OF 06-Oct-20							
		PERMANENT			GUARD/RESERVE		
	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>	<u>CIVILIAN</u>	<u>TOTAL</u>	<u>OFFICER</u>	<u>ENLISTED</u>
AUTHORIZED	532	63	455	14	1249	198	1051
ACTUAL	472	50	408	14	1200	189	1011
12. RESERVE UNIT DATA							
<u>UNIT DESIGNATION</u>		<u>AUTHORIZED</u>		<u>STRENGTH</u>		<u>ACTUAL</u>	
153	AMXS	60				54	
153	AW	45				45	
153	CACS	202				172	
153	CES	98				86	
153	CF	36				34	
153	CPTF	12				11	
153	FSS	57				52	
153	LRS	122				110	
153	MDG	64				66	
153	MOF	22				14	
153	MSG	13				12	
153	MXG	18				15	
153	MXS	152				116	
153	OG	13				12	
153	OSS	47				47	
153	SFS	74				68	
153	STHQ	34				32	
153	STUFLT	3				5	
187	AES	94				83	
187	AS	94				83	
243	ATCS	86				72	
Totals		1346				1189	
13. MAJOR EQUIPMENT AND AIRCRAFT							
	<u>TYPE</u>	<u>AUTHORIZED</u>		<u>ACTUAL</u>			
	C-130H	8				8	
	Vehicles	119				119	
	Vehicle Equivalent	345				345	
	ASE Equipment	272				254	

1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021
3. INSTALLATION AND LOCATION CHEYENNE REGIONAL AIRPORT, WYOMING			4. PROJECT TITLE COMBINED VEHICLE MAINTENANCE & ASE COMPLEX	
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 214-425	7. PROJECT NUMBER DPEZ019000	8. PROJECT COST(\$000) \$13,400	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
VEHICLE MAINTENANCE/AGE FACILITY	SM	2,815		10,112
VEHICLE MAINTENANCE SHOP (214425)	SM	502	4,306	( 2,162)
VEHICLE MAINTENANCE ADMIN (610121)	SM	177	4,306	( 762)
REFUELING MAINTENANCE SHOP (214467)	SM	139	4,306	( 599)
VEHICLE OPS HEATED PARKING (214426)	SM	260	3,498	( 909)
VEHICLE OPS PARKING SHED (214428)	SM	743	1,884	( 1,400)
AIRCRAFT SUPPORT EQUIP (218712)	SM	994	4,306	( 4,280)
SUPPORTING FACILITIES	LS			1,704
PAVEMENTS	LS			( 450)
UTILITIES	LS			( 423)
SITE IMPROVEMENTS	LS			( 300)
COMMUNICATION SUPPORT	LS			( 121)
DEMOLITION	SM	1,524	269	( 410)
SUSTAINABILITY AND ENERGY MEASURES	LS			<u>230</u>
SUBTOTAL				12,046
CONTINGENCY (5%)				<u>602</u>
TOTAL CONTRACT COST				12,648
SUPERVISION, INSPECTION AND OVERHEAD (6%)				<u>759</u>
TOTAL REQUEST				13,407
TOTAL REQUEST (ROUNDED)				13,400
10. Description of Proposed Construction: Construct a combined vehicle maintenance and Aircraft Support Equipment (ASE) facility utilizing conventional design and construction methods to accommodate the mission of the facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria. Air Conditioning: 263 KW.				
11. REQUIREMENT: 2,815 SM ADEQUATE: 0 SM SUBSTANDARD: 2,635 SM <u>PROJECT</u> : Combined Vehicle Maintenance and Aircraft Support Equipment Complex (Current Mission) <u>REQUIREMENT</u> : The 153th Airlift Wing (AW) requires a safe, efficient, and properly configured facilities to support vehicle and Aircraft Support Equipment (ASE) maintenance in support of its 8 PAA C-130 airlift mission. The facilities shall take advantage of the similarity in function to incorporate efficiencies between the two requirements. Where possible, the facilities shall combine like functions such as administrative, shop, and mechanical areas into combined spaces. <u>CURRENT SITUATION</u> : The 153 AW facilities that support vehicle and ASE maintenance are wholly inadequate for their purpose. Vehicle maintenance facilities are over between 45 and 50 years old and have excessive maintenance costs. All building components within the facilities (HVAC, electrical, finishes, plumbing, etc) are at the end of their useful life. Additionally, the facilities are undersized for the current maintenance requirements of the wing. The addition of the 243rd Air Traffic Control Squadron has drastically increased the number of vehicles assigned to the base and has resulted in a				

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3. INSTALLATION AND LOCATION CHEYENNE REGIONAL AIRPORT, WYOMING																																							
5. PROJECT TITLE COMBINED VEHICLE MAINTENANCE & ASE COMPLEX	7. PROJECT NUMBER DPEZ019000																																						
<p>severe space deficit. The facilities available do not provide adequate space for day-to-day operations or wartime training requirements. Bays are too short and narrow to accommodate the larger vehicles that are now assigned. Maintenance activities must be performed, at times, outside in what is sometimes inclement weather, extremely high winds or subzero temperatures. The administrative areas are small and poorly configured, have inadequate ventilation, and no accommodations for female members. The ASE facility is in a similar condition; it is 40 years old, undersized, with failing building components. Plumbing, exterior doors, and the roof are all failing. Additionally, the maintenance bays are poorly configured and too small to support equipment testing, driving numerous workarounds. Moreover, the facility is sited too close to the installation boundary fence and a major 4-lane road which puts the mechanics who work there at increased risk. Finally, the ASE facility is sited away from the flightline area, causing increased travel distances and delays.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Vehicle and ASE maintenance functions will continue to operate in substandard, undersized, and dilapidated facilities. Vehicles and equipment will continue to deteriorate due to a lack of maintenance driven by inadequate facilities. The substandard facilities will continue to deteriorate, escalating poor readiness, working conditions and increased risk to personnel and aircraft, resulting in negative mission impact and day-to-day preparation for AEF taskings.</p> <p><u>ADDITIONAL:</u> This project meets the criteria/scope specified in Air National Guard Handbook 32-1084, "Facility Space Standards" and is in compliance with the installation development plan. The following buildings will be demolished as a result of this project: 21 (372 SM / 4,000 SF), 23 (564 SM / 6,064 SF), and 24 (588 SM / 6,336 SF) for a total of 1,524 SM (16,400 SF). Sustainable principles, to include Life Cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13693, 10 USC 2802(c) and other applicable laws and Executive Orders. The new facility number will be 42, and the RPUID is 1298601. This project is considered capitalization based on the following rule from ANGETL 17-06: New Construction.</p>																																							
<table border="0"> <tr> <td>CatCode</td> <td></td> <td>Requirement</td> <td>Adequate</td> <td>Substandard</td> </tr> <tr> <td>214-425</td> <td>VEHICLE MAINTENANCE SHOP</td> <td>502 SM</td> <td>0 SM</td> <td>326 SM</td> </tr> <tr> <td>214-426</td> <td>VEHICLE OPERATIONS HEATED PRKN</td> <td>260 SM</td> <td>0 SM</td> <td>260 SM</td> </tr> <tr> <td>214-428</td> <td>VEHICLE OPERATIONS PARKING SHE</td> <td>743 SM</td> <td>0 SM</td> <td>712 SM</td> </tr> <tr> <td>214-467</td> <td>REFUELING VEHICLE SHOP</td> <td>139 SM</td> <td>0 SM</td> <td>93 SM</td> </tr> <tr> <td>218-712</td> <td>AIRCRAFT SUPPORT EQUIPMENT (ASE)</td> <td>994 SM</td> <td>0 SM</td> <td>1,007 SM</td> </tr> <tr> <td>610-121</td> <td>VEHICLE OPERATIONS ADMIN</td> <td>177 SM</td> <td>0 SM</td> <td>238 SM</td> </tr> </table>	CatCode		Requirement	Adequate	Substandard	214-425	VEHICLE MAINTENANCE SHOP	502 SM	0 SM	326 SM	214-426	VEHICLE OPERATIONS HEATED PRKN	260 SM	0 SM	260 SM	214-428	VEHICLE OPERATIONS PARKING SHE	743 SM	0 SM	712 SM	214-467	REFUELING VEHICLE SHOP	139 SM	0 SM	93 SM	218-712	AIRCRAFT SUPPORT EQUIPMENT (ASE)	994 SM	0 SM	1,007 SM	610-121	VEHICLE OPERATIONS ADMIN	177 SM	0 SM	238 SM				
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1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE MAY 2021																																								
3. INSTALLATION AND LOCATION CHEYENNE REGIONAL AIRPORT, WYOMING																																										
5. PROJECT TITLE COMBINED VEHICLE MAINTENANCE & ASE COMPLEX		7. PROJECT NUMBER DPEZ019000																																								
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Estimated Design Data:</p> <table border="0"> <tr> <td>(1) Status:</td> <td></td> </tr> <tr> <td>    (a) Date Design Started</td> <td>MAR 2019</td> </tr> <tr> <td>    (b) Parametric Cost Estimates used to develop costs</td> <td>No</td> </tr> <tr> <td>    (c) Percent Complete as of Jan 2021</td> <td>35%</td> </tr> <tr> <td>(2) (d) Date 35% Designed</td> <td>SEP 2020</td> </tr> <tr> <td>    (e) Date Design Complete</td> <td>JAN 2022</td> </tr> <tr> <td>    (f) Type of Design Contract</td> <td>Design-Bid-Build</td> </tr> <tr> <td>    (g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>No</td> </tr> <tr> <td>(3) Basis:</td> <td></td> </tr> <tr> <td>    (a) Standard or Definitive Design -</td> <td>NO</td> </tr> <tr> <td>    (b) Where Design Was Most Recently Used -</td> <td>N/A</td> </tr> <tr> <td>(4) Total Cost (c) = (a) + (b) or (d) + (e):</td> <td>(\$000)</td> </tr> <tr> <td>    (a) Production of Plans and Specifications</td> <td>324</td> </tr> <tr> <td>    (b) All Other Design Costs</td> <td>162</td> </tr> <tr> <td>    (c) Total</td> <td>486</td> </tr> <tr> <td>    (d) Contract</td> <td>486</td> </tr> <tr> <td>    (e) In-House</td> <td></td> </tr> <tr> <td>(5) Contract Award (Month/Year)</td> <td>FEB 2022</td> </tr> <tr> <td>(6) Construction Start</td> <td>MAR 2022</td> </tr> <tr> <td>(7) Construction Completion</td> <td>JUN 2023</td> </tr> </table> <p>* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope and cost and executability.</p> <p>b. Equipment associated with this project will be provided from other appropriations: N/A</p> <p>POINT OF CONTACT: NGB/A4AD (240) 612-7005</p>			(1) Status:		(a) Date Design Started	MAR 2019	(b) Parametric Cost Estimates used to develop costs	No	(c) Percent Complete as of Jan 2021	35%	(2) (d) Date 35% Designed	SEP 2020	(e) Date Design Complete	JAN 2022	(f) Type of Design Contract	Design-Bid-Build	(g) Energy Study/Life-Cycle analysis was/will be performed	No	(3) Basis:		(a) Standard or Definitive Design -	NO	(b) Where Design Was Most Recently Used -	N/A	(4) Total Cost (c) = (a) + (b) or (d) + (e):	(\$000)	(a) Production of Plans and Specifications	324	(b) All Other Design Costs	162	(c) Total	486	(d) Contract	486	(e) In-House		(5) Contract Award (Month/Year)	FEB 2022	(6) Construction Start	MAR 2022	(7) Construction Completion	JUN 2023
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**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD**

JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 2022

APPROPRIATION:	MILITARY CONSTRUCTION	AIR NATIONAL
PROGRAM 313:	GUARD PLANNING AND DESIGN	\$18,402,000

PART I -- PURPOSE AND SCOPE

The funds estimated in this program are to provide financing for project planning and design of the construction requirements for the Air National Guard

PART II -- JUSTIFICATION OF FUNDS REQUESTED

The funds required for Planning and Design will provide for establishing project construction design of the facilities and for fully evaluating each designed project in terms of technical adequacy and estimated costs.

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1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021	
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS			4. PROJECT TITLE PLANNING AND DESIGN		
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 961-000	7. PROJECT NUMBER PAYZ220005	8. PROJECT COST (\$000) 18,402		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PLANNING AND DESIGN (P-313)		LS			18,402
SUBTOTAL					18,402
TOTAL CONTRACT COST					18,402
TOTAL REQUEST					18,402
<p>10. Description of Proposed Construction: The funds requested will provide for the architectural and engineering services necessary to fully evaluate each project's technical adequacy and estimated cost, and complete final design of facilities. In addition, the funds are required to prepare working drawings, specifications, and project reports for the design of construction projects to be included in future Air National Guard (ANG) Military Construction (MILCON) Programs.</p>					
<p>11. REQUIREMENT: As Required  <u>PROJECT:</u> Planning and Design  <u>REQUIREMENT:</u> The ANG requires planning and design funds for projects that are to be included in future MILCON programs. The FY 2022 design funds are needed to complete the design for those projects that are to be included in the FY 2022 MILCON program and to begin the design for those projects to be included in the FY 2023 program. Funds also provide for design of the FY 2022 unspecified minor construction program.  <u>CURRENT SITUATION:</u> The ANG requires the design money in FY 2022 to ensure the design milestones for the FY 2022 and FY 2023 MILCON Programs, as mandated by Department of Defense (DOD) Instruction 1225.8, are met.  <u>IMPACT IF NOT PROVIDED:</u> The ANG will not be able to effectively administer future year MILCON programs. Insufficient design funds will translate into late design completion, later construction starts, higher construction costs, and the inability to meet DoD and Congressionally mandated execution rates, and degrade the operational mission and training by the delays in construction completion.</p>					

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**DEPARTMENT OF THE AIR FORCE  
AIR NATIONAL GUARD**

JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 2022

APPROPRIATION:	MILITARY CONSTRUCTION	AIR NATIONAL GUARD
PROGRAM 341:	UNSPECIFIED MINOR CONSTRUCTION	\$29,068,000

PART I -- PURPOSE AND SCOPE

The funds estimated in this program are to provide financing for new construction and alteration projects having cost estimates over \$2,000,000 but not exceeding \$6,000,000, adjusted by area cost factor, which are not otherwise authorized by law.

PART II -- JUSTIFICATION OF FUNDS REQUESTED

The funds required for Unspecified Minor Construction will finance projects for which the urgency is such that they could not be included in the regular Military Construction Program for the Air National Guard, and such that they exceed the minor construction authorization limit in the Operation and Maintenance Appropriation.

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1. COMPONENT ANG	FY 2022 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE MAY 2021	
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS			4. PROJECT TITLE UNSPECIFIED MINOR CONSTRUCTION		
5. PROGRAM ELEMENT 52276F	6. CATEGORY CODE 962-000	7. PROJECT NUMBER PAYZ220006	8. PROJECT COST (\$000) 29,068		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
UNSPECIFIED MINOR CONSTRUCTION (P-341)		LS			29,068
SUBTOTAL					29,068
TOTAL CONTRACT COST					29,068
TOTAL REQUEST					29,068
10. Description of Proposed Construction: Provides funding for unspecified minor construction projects not otherwise authorized by law and having a funded cost more than \$2,000,000 and equal to or less than \$6,000,000. Projects include construction, alteration, or conversion of permanent or temporary facilities. The Secretary of the Air Force has the authority to approve projects of this nature under the provisions of 10 U. S. Code, 18233a and 10 U. S. Code, 2805.					
11. REQUIREMENT: As Required <u>PROJECT:</u> Unspecified Minor Construction Program <u>REQUIREMENT:</u> This program provides the means of accomplishing projects costing over \$2,000,000, but not exceeding \$6,000,000. The requested funds are not a percent of the budget, but are based on historical trends and known requirements. These projects generally address functional space shortfalls or urgent new mission beddowns. <u>CURRENT SITUATION:</u> Because of new weapons systems, equipment, mission, and personnel growth the Air National Guard has a number of instances where functional space shortfalls exist. Many drive new construction requirements in the \$2,000,000 to \$6,000,000 range. These functional space shortfalls cause degradation of mission accomplishment, costly workarounds, and accelerated failure of valuable mission equipment. <u>IMPACT IF NOT PROVIDED:</u> Unable to adequately support mission conversions and beddowns. Functional space shortfalls will continue. More expensive workarounds will have to be used.					

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