

Fiscal Year (FY) 2021 Budget Estimates

AIR FORCE RESERVE



FY 2021 MILITARY CONSTRUCTION PROGRAM

**February
2020**

**DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM JUSTIFICATION
OF ESTIMATES FOR FISCAL YEAR 2021**

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**DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM
(DOLLARS IN THOUSANDS)**

MAJOR CONSTRUCTION

FY 2021 MILITARY CONSTRUCTION PROJECTS LIST

<u>STATE/ COUNTRY</u>	<u>INSTALLATION AND PROJECT</u>	<u>AUTH OF APPROP AMOUNT</u>	<u>APPROP AMOUNT</u>	<u>DD FORM 1391 PAGE #</u>
Texas	NAS JRB Fort Worth F-35A Simulator Facility	<u>14,200</u>	<u>14,200</u>	2
	SUBTOTAL	14,200	14,200	
	TOTAL IN THE UNITED STATES	14,200	14,200	
	Unspecified Minor Construction	5,647	5,647	
	Planning & Design	<u>3,270</u>	<u>3,270</u>	
	GRAND TOTAL	23,117	23,117	

**DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM
(DOLLARS IN THOUSANDS)**

MAJOR CONSTRUCTION

FY 2021 MILITARY CONSTRUCTION PROJECTS
NEW/CURRENT MISSION, ENVIRONMENTAL LIST

<u>LOCATION</u>	<u>PROJECT</u>	<u>COST</u>	NEW, CURRENT <u>ENVIR</u>	<u>FOOTPRINT</u>
Texas	NAS JRB Fort Worth F-35A Simulator Facility	<u>14,200</u>	New	New

TOTAL **14,200**

SUBTOTALS:

New Mission	14,200
Current Mission	0
Environmental	0
Unspecified Minor Construction	5,647
Planning & Design	<u>3,270</u>

FY 2021 APPROPRIATIONS TOTAL: **23,117**

SECTION 1
SPECIAL PROGRAM CONSIDERATIONS

**DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM**

MAJOR CONSTRUCTION

FY 2021 POLLUTION ABATEMENT/ENERGY CONSERVATION LISTING

No special program considerations in FY 2021.

SECTION 2

BUDGET APPENDIX EXTRACT

**DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM**

FY 2021 APPROPRIATION LANGUAGE

MILITARY CONSTRUCTION, AIR FORCE RESERVE

For construction, acquisition, expansion, rehabilitation, and conversion of facilities for the training and administration of the Air Force Reserve as authorized by Chapter 1803 of Title 10, United States Code, and Military Construction Authorization Acts, \$23,117,000 to remain available until September 30, 2025.

**DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM**

SPECIAL PROGRAM CONSIDERATIONS

Pollution Abatement

The military construction projects proposed in this program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution problems at installations have been reviewed to ensure that corrective action is accomplished in accordance with applicable standards and criteria.

Energy Conservation

Military construction projects specifically designed for energy conservation at installations have been developed, reviewed and selected with prioritization by energy savings per investment costs. Projects include improvements to existing facilities and utility systems to upgrade design, eliminate waste, and install energy saving devices. Projects are designed for minimum energy consumption.

Flood Plain Management and Wetlands Protection

Proposed land acquisitions, disposals and installation construction projects have been planned to allow for the proper management of flood plains and protection of wetlands by avoiding long-term impacts, reducing the risk of flood losses, and minimizing the loss or degradation of wetlands. Project planning is in accordance with the requirements of Executive Order Nos. 11988 and 22990.

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 in this program do not directly or indirectly affect any district, site, building, structure, object or setting listed in the National Register of Historic Places, except as noted on the project's DD Form 1391.

Environmental Protection

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

Economic Analysis

Economics are an inherent aspect of project development and design of military construction projects included in this program. This program represents the most economical use of resources.

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 these areas, and those which have been allocated to the areas for future activation, is not and will not be larger than the number that can reasonably be expected to be maintained at authorized strength levels considering the number of persons living in these areas who are qualified for membership in those Reserve units.

Potential Use of Vacant Schools & Other State & Local Facilities

The potential use of vacant schools and other state and local owned facilities has been reviewed and analyzed for each facility to be constructed under this program.

Congressional Reporting Requirements

Page iii, titled "New/Current Mission, Environmental List," is in response to a Senate Appropriations Committee requirement contained on page 10 (New and Current Mission Activities) of Report #100-380.

Unless otherwise noted, the projects comply with the scope and design criteria prescribed in Part II of Military Handbook 1190, "Facilities Planning and Design Guide."

SECTION 3

**INSTALLATION AND PROJECT JUSTIFICATION DATA
DD FORMS 1390 AND DD FORMS 1391**

1. COMPONENT AIR FORCE RESERVE		FY 2021 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEB 2020	
3. INSTALLATION AND LOCATION NAS JRB FORT WORTH, TEXAS			4. PROJECT TITLE F-35A SIMULATOR FACILITY			
5. PROGRAM ELEMENT 52735F		6. CATEGORY 171-212	7. PROJECT NUMBER DDPM414396	8. PROJECT COST (\$000) \$14,200		
9. COST ESTIMATES						
ITEM		UM	QUANTITY	UNIT COST	COST (\$000)	
PRIMARY FACILITIES					10,999,474	
FLIGHT SIM-(4 BAY)+SECURITY REQUIREMENTS		SM	1,861	5,633.17	(10,483,321)	
ELEVATOR		LS			(239,607)	
SPECIALTIES/FINISHES/HVAC REQUIREMENTS		LS			(276,546)	
SUPPORTING FACILITIES					1,776,670	
COMMUNICATION SECURITY REQUIREMENTS		LS			(235,443)	
SITE IMPROVEMENTS/PAVEMENTS/UTILITIES		LS			(427,481)	
EARTHWORK/STORM WATER		LS			(206,362)	
ENVIRONMENTAL AND SOIL REMEDIATION		LS			(744,046)	
DEMO EXISTING FACILITIES-1604, 1606, 1608, 1632		SM	744.0	219.54	(163,338)	
SUBTOTAL					12,776,144	
CONTINGENCY (5%)					638,807	
TOTAL CONTRACT COST					13,414,951	
SUPERVISION, INSPECTION & OVERHEAD (5.7%)					764,652	
TOTAL REQUEST					14,179,603	
TOTAL REQUEST (ROUNDED)					14,200,000	
10. DESCRIPTION OF PROPOSED WORK: Clear site by demolishing existing facilities, pavements & utilities in the proposed new footprint. Construct an F-35A 4-bay Full Mission Simulator (FMS) facility utilizing economic design and construction methods to accommodate the mission. Facility construction includes reinforced concrete foundation, and structural steel frame and insulated walls, roof, utilities and other necessary work to make a complete and useable facility. Functional rooms consist of briefing, testing, restrooms, locker, storage, and other training requirements. Provide fire detection/protection, utilities, site improvements, storm water design and mitigation, environmental restoration, landscaping, parking, walkways, and all necessary supporting facilities. Additionally, the facility will house administrative units, such as administrative offices, breakrooms, conference rooms, janitor closets, mechanical, electrical and communication rooms for computer maintenance and data/telecommunications network support. Other facility requirements include an open storage TS/SCI level of security fortified area for sensitive information allowing for control and management of classified material and information, a communication room for non-secure computer maintenance and training, data integrity/ tele-communications, program management/ records and support. Demolition includes bldgs. 1604, 1606, 1608, 1632, and a fueling station and miscellaneous temporary storage sheds. All work shall be in accordance with AFRC, Navy and 301 Fighter Wing design compatibility guidelines, and the Naval Air Station Fort Worth Installation Master Plan. This project will be constructed in accordance with the ICD 705, DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.						
11. REQUIREMENT: 1,861 SM ADEQUATE: 0 SM SUBSTANDARD: 1,861 SM						
PROJECT: F-35A Simulator Facility (New Mission)						
REQUIREMENT: An adequately sized, properly configured 4-bay full mission simulator facility is required to support the 301 Fighter Wing (FW) new mission F-35 bed-down at Naval Air Station, Joint Reserve Base, Fort Worth Texas. Project includes the complete construction of approximately a 1,861 SM (20,032) square foot 4-bay Full Mission Simulator (FMS) facility to support the new mission operations as well as maintain efficiency and appropriate synergy to effectively improve upon mission operations. The facility is required to include space for 4 aircraft flight simulator bays, administration, records, classrooms, brief/debrief rooms, classified server room, and storage space for F-35A pilot flight simulator training.						

1. COMPONENT AIR FORCE RESERVE	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEB 2020
3. INSTALLATION AND LOCATION: NAS JRB FORT WORTH, TEXAS		
4. PROJECT TITLE: F-35A SIMULATOR FACILITY		5. PROJECT NUMBER DDPM414396
<p>CURRENT SITUATION: Naval Air Station, Joint Reserve Base, Fort Worth was selected as the approved Air Force Reserve location for the F-35A Fighter Aircraft. The F-35A is a new aircraft replacing the current F-16 models. The 301 Fighter Wing (FW) does not have adequate facility space to support the flight simulator devices nor does the wing have an operational right-sized facility that meets F-35A Facility Requirements Documents (FRD) and Special Access Program Facility (SAPF) requirements. The current site is space restrictive making it impossible to achieve the proper security standoff distances.</p>		
<p>IMPACT IF NOT PROVIDED: Without this project being funded and executed in 2021, the 301 FW will not have an adequate flight simulator facility nor will it be able to receive and install the (4) four F-35A simulators to support the new F-35A mission. This project provides critical real-world mission rehearsal, operations and training for F-35A pilots. Without it, pilots will be unable to provide adequate support in operational tactics development without maintaining proficiency through flight simulator training. This, in turn, affects the overall operational capability of the war fighter. The lack of training would drastically decrease mission capabilities of the new aircraft in support of national defense objectives.</p>		
<p>ADDITIONAL: The scope and criteria for this project is contained in the Joint Strike Fighter Facility Requirements Document (FRD) developed by the Lockheed-Martin Aeronautics Company. This project meets the criteria/scope specified in Military Handbook 1190 "Facility Planning and Design Guide" and facility requirements. An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) has been completed and new construction is the only viable option to meet this requirement. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. Additionally, as a new weapon system, Air Force Manual 32-1084 does not adequately address the operational, training, and security requirements of the F-35A mission. The cost estimate is based on UFC 3-701-01 Change 2, July 2012 DoD Facilities Pricing Guide escalated to midpoint 2021. This project is not sited in a floodplain. Base Civil Engineer: 301 MSG/CE, Director of Engineering NAS Ft Worth, DSN 739-6297; HQ AFRC/A4CD, Air Force Reserve Command MILCON Program Manager, DSN 497-1995. The project is candidate for Comprehensive Interior Design (CID). All known alternatives were considered during the development of this project. Demolition: Bldgs. 1604, 1606, 1608, and 1632 = 744 SM = 8,009; SF New Work: 1,861 SM = 20,032 SF.</p>		
<p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force Reserve requirements.</p>		

1. COMPONENT AIR FORCE RESERVE	FY 2021 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEB 2020
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3. INSTALLATION AND LOCATION
NAS JRB FORT WORTH, TEXAS

4. PROJECT TITLE F-35A SIMULATOR FACILITY	5. PROJECT NUMBER DDPM414396
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12. SUPPLEMENTAL DATA:

A. ESTIMATED EXECUTION DATA

1. ACQUISITION STRATEGY (Design Bid Build)

2. DESIGN DATA

a. Design or Request for Proposal (RFP) Started: (Aug 2019)

b. Percent of Design Completed as of Jan 2020: (35%)

c. Design or RFP Complete: (Sep 2020)

d. Total Design Cost (\$000): (1,420)

e. Energy Study and/or Life Cycle Analysis performed: (No)

f. Standard or definitive design used (No)

3. CONSTRUCTION DATA

a. Construction Award (Oct 2020)

b. Construction Start (Mar 2021)

c. Construction Complete (Jul 2023)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated Or Requested</u>	<u>Cost (\$000)</u>
Systems Furniture	3740	FY 2023	160
Communications Equipment	3740	FY 2022	426

1. COMPONENT AIR FORCE RESERVE	FY 2021 GUARD AND RESERVE MILITARY CONSTRUCTION				2. DATE FEB 2020												
3. INSTALLATION AND LOCATION NAS JRB FORT WORTH, TEXAS				4. AREA CONSTR COST INDEX 0.80													
5. FREQUENCY AND TYPE UTILIZATION Daily use by civilian, technician and AGR force. One unit training assembly per month, 15 days annual field training per year.																	
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS None																	
7. PROJECTS REQUESTED IN THIS PROGRAM <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>CATEGORY CODE</u></th> <th style="text-align: left;"><u>PROJECT TITLE</u></th> <th style="text-align: left;"><u>SCOPE</u></th> <th style="text-align: left;"><u>COST (\$000)</u></th> <th style="text-align: left;"><u>DESIGN START</u></th> <th style="text-align: left;"><u>DESIGN COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>141-753</td> <td>F-35A SQUAD OPS/AMU FACILITY</td> <td>3,159 SM</td> <td>23,000</td> <td>Aug 2019</td> <td>Sep 2020</td> </tr> </tbody> </table>						<u>CATEGORY CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>COST (\$000)</u>	<u>DESIGN START</u>	<u>DESIGN COMPLETE</u>	141-753	F-35A SQUAD OPS/AMU FACILITY	3,159 SM	23,000	Aug 2019	Sep 2020
<u>CATEGORY CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>COST (\$000)</u>	<u>DESIGN START</u>	<u>DESIGN COMPLETE</u>												
141-753	F-35A SQUAD OPS/AMU FACILITY	3,159 SM	23,000	Aug 2019	Sep 2020												
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION Approved for unilateral construction, 9 May 2019																	
9. LAND ACQUISITION REQUIRED <i>(Number of Acres)</i> NONE																	
10. PROJECTS PLANNED IN NEXT FOUR YEARS <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>CATEGORY CODE</u></th> <th style="text-align: left;"><u>PROJECT TITLE</u></th> <th style="text-align: left;"><u>SCOPE</u></th> <th style="text-align: left;"><u>COST (\$000)</u></th> <th style="text-align: left;"><u>YEAR</u></th> </tr> </thead> <tbody> <tr> <td></td> <td>None</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						<u>CATEGORY CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>COST (\$000)</u>	<u>YEAR</u>		None					
<u>CATEGORY CODE</u>	<u>PROJECT TITLE</u>	<u>SCOPE</u>	<u>COST (\$000)</u>	<u>YEAR</u>													
	None																
RPM BACKLOG AT THIS INSTALLATION (\$000): 40,245																	

**DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM JUSTIFICATION OF
ESTIMATES FOR FISCAL YEAR 2021**

APPROPRIATION: MILITARY CONSTRUCTION, AIR FORCE RESERVE

PROGRAM 341.020 UNSPECIFIED MINOR CONSTRUCTION \$5,647,000

PART I - PURPOSE AND SCOPE

The funds requested for unspecified minor construction will finance new construction projects having cost estimates less than \$6,000,000.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The funds requested for unspecified minor construction will finance unforeseen projects generated during the year and are necessary to support mission requirements.

1. COMPONENT AIR FORCE RESERVE		FY 2021 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEB 2020		
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS				4. PROJECT TITLE UNSPECIFIED MINOR CONSTRUCTION			
5. PROGRAM ELEMENT 52576F		6. CATEGORY CODE 962-000	7. PROJECT NUMBER PAYZ 210341		8. PROJECT COST (\$000) 5,647		
9. COST ESTIMATES							
ITEM				U/M	QUANTITY	UNIT COST	COST (\$000)
UNSPECIFIED MINOR CONSTRUCTION				LS	-	-	5,647
SUBTOTAL							5,647
TOTAL CONTRACT COST							5,647
TOTAL REQUEST							5,647
10. Description of Proposed Construction:							
11. REQUIREMENT: As required.							
PROJECT: Unspecified Minor Construction							
REQUIREMENT: This appropriation provides a lump sum amount for unspecified minor construction projects, not otherwise authorized by law, having a funded cost less than \$6,000,000. Work includes construction, alteration or conversion of temporary facilities in accordance with Title 10, USC 18233 and 18233a. These projects are not now identified but are expected to arise in FY21. <u>IMPACT IF NOT PROVIDED:</u> No means to accomplish exigent projects costing less than \$6,000,000 will exist, severely degrading the ability of the Air Force Reserve to efficiently and effectively address unforeseen facility modifications, alteration and conversion requirements.							

SECTION 4
PLANNING AND DESIGN

1. COMPONENT AIR FORCE RESERVE		FY 2021 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEB 2020		
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS				4. PROJECT TITLE PLANNING AND DESIGN			
5. PROGRAM ELEMENT 52576F		6. CATEGORY CODE 961-000	7. PROJECT NUMBER PAYZ210313		8. PROJECT COST (\$000) 3,270		
9. COST ESTIMATES							
ITEM				U/M	QUANTITY	UNIT COST	COST (\$000)
PLANNING AND DESIGN				LS	-	-	<u>3,270</u>
SUBTOTAL							3,270
TOTAL CONTRACT COST							3,270
TOTAL REQUEST							3,270
10. Description of Proposed Construction:							
11. REQUIREMENT: As required.							
PROJECT: Planning and Design.							
REQUIREMENT: Funds for architectural and engineering services and construction provide for the completed design of facilities and evaluation of designs in terms of technical adequacy and estimated costs. In addition, these funds are required to prepare site surveys, develop master plans, working drawings, specifications, project planning reports, and designs required for those construction projects included in the Air Force Reserve (AFR) Military Construction (MILCON) Program. The advanced age and continued deterioration of the AFR physical plant and infrastructure have generated numerous facility requirements, requiring these architectural and engineering services for design. In addition, there are numerous new mission bed-down projects that received no previous planning and design funds. It is essential the AFR be funded at the requested level to ensure operational readiness is not hampered or degraded due to inadequate facilities.							
IMPACT IF NOT PROVIDED: Continued design on this fiscal year program, as well as future year MILCON programs will be impossible.							

SECTION 5
FUTURE YEARS DEFENSE PROGRAM

**DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM
FUTURE YEARS MILITARY CONSTRUCTION PROGRAM (\$000)**

FY	State	Base	Project	Type	Foot print	PA
22	NY	Niagara Falls IAP	Main Gate	Current Mission	New	10,600
22	FL	Patrick AFB	Simulator C-130J	Current Mission	New	11,600
22	FL	Homestead AFS	Corrosion Control Facility	Current Mission	New	14,000
22	TX	Naval Air Station JRB Ft. Worth	F-35 Squadron Operations/AMU	New Mission	New	25,000
				Total Projects		61,200
				Planning & Design		4,636
				Unspecified MC		17,700
				Total FY22 Program		83,536
23	CA	Beale AFB	940 ARW Squad Ops/AMU	Current Mission	New	33,000
				Total Projects		33,000
				Planning & Design		5,079
				Unspecified MC		8,237
				Total FY23 Program		46,316
24	MN	Minneapolis-St. Paul IAP	Mission Support Group Facility	Current Mission	New	13,000
24	IN	Grissom ARB	Logistics Readiness Complex	Current Mission	New	22,000
				Total Projects		35,000
				Planning & Design		4,874
				Unspecified MC		9,379
				Total FY24 Program		49,253
25	GA	Dobbins ARB	94 LRS Facility	Current Mission	New	31,000
				Total Projects		31,000
				Planning & Design		5,360
				Unspecified MC		13,296
				Total FY25 Program		49,656