



# UNITED STATES GENERAL ACCOUNTING OFFICE

WASHINGTON, D.C. 20548

LOGISTICS AND COMMUNICATIONS DIVISION

B-159896

The Honorable The Secretary of Defense 5

Dear Mr. Secretary:

We have reviewed the extent of cost growths and delays in construction programs of the Department of Defense. C|-|Since the House and Senate Committees on Appropriations and  $\angle 30^{\circ}$ Armed Services in various hearings have expressed specific  $\angle 50^{\circ}$ interest in these areas, we are sending copies of this report to the Chairmen of these Committees.

Copies are also being sent to the Chairmen of the / House and Senate Committees on Government Operations; the / Director, Office of Management and Budget; and the Secretaries of the Army, Navy, and Air Force.

We will be pleased to discuss with you or your representatives any matters contained in this report.

Sincerely yours,

Director, Logistics and Communications Division

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DIGEST

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## ABBREVIATIONS

AFB Air Force Base

DOD Department of Defense

GAO General Accounting Office

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GENERAL ACCOUNTING OFFICE REPORT TO THE SECRETARY OF DEFENSE

## <u>DIGEST</u>

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### WHY THE REVIEW WAS MADE

Because of congressional interest in the way that the Department of Defense (DOD) carries out its construction programs, GAO studied the implementation of the fiscal year 1970 military construction program 3, by the Army, the Navy, and the Air 20,1 35 -Force. GAO's purpose was to provide the interested committees of the Congress with an overview of the executive branch actions with respect to the congressional authorizations and appropriations. Particular attention was given to cost growth, changes in scope, and delays in completion of projects.

> GAO compared project cost estimates as of June 30, 1971, with congressionally authorized amounts to determine the extent of project cost overruns and underruns.

To obtain information on cost growths after contract award and delays in contract completion, GAO reviewed selected major construction contracts as of August 31, 1972. These contracts had been awarded during the period July 1969 through December 1970 and many of them were related to projects authorized in the 1970 military construction program.

FINDINGS AND CONCLUSIONS

The Congress authorized \$872 million for 804 Army, Navy, and Air Force fiscal year 1970 military

<u>Tear Sheet</u>. Upon removal, the report cover date should be noted hereon.

EXTENT OF COST GROWTHS AND DELAYS IN CONSTRUCTION PROGRAMS OF THE DEPARTMENT OF DEFENSE 5 B-159896

construction projects. The status of awarded projects as of June 30, 1971, was:

- --Overall, current working estimates of \$524 million for the 585 awarded projects showed a net underrun of \$44 million, or 7.8 percent,<sup>1</sup> as compared to the related authorizations. (See p. 5.)
- --343 of these projects, for which the Congress had authorized \$379 million, had current working estimates which were less than 15 percent over or under the authorized amounts. (See p. 5.)
- --242 of the projects, for which the Congress had authorized \$190 million, had current working estimates which were more than 15 percent over or under the authorized amounts. (See p. 5.)

In tests of 79 of the awarded projects, GAO did not find any major changes in the scope--size and physical characteristics--of the facilities being built compared with the scope the Congress authorized. (See p. 8.)

GAO noted that 105 fiscal year 1970 projects, which the Congress had authorized for \$62 million, had not

<sup>&</sup>lt;sup>1</sup>As of January 1973 the net underrun on all awarded fiscal year 1970 projects was 9.1 percent.

been awarded by September 30, 1971, when the authorizations expired. These included 32 projects for which the Congress had authorized \$16.5 million but had provided no funds. Most of the remainder of the 105 projects were canceled because of changes in the requirements. (See pp. 4 and 8.)

In reviewing 33 major construction contracts for the extent of cost growths and of delays, GAO found that these contracts, which had been awarded in 1969 or 1970 at a total amount of \$410 million, had increased 5.9 percent by August 31, 1972.

The chief reasons given for the increases were correction of design deficiencies, latent and unforeseen conditions, and user-requested changes. Also, the contracts showed average delays in estimated completion dates of about 8 months.

In addition, the delays were caused by abnormal periods of inclement weather, labor strikes, and shortages of skilled labor. In many instances the causes were unknown and unforeseeable at the time of contract award. (See pp. 10 to 12.)

#### RECOMMENDATIONS OR SUGGESTIONS

This report contains no recommendations or suggestions.

#### AGENCY ACTIONS

The Office of the Secretary of

Defense felt that the GAO review was insufficient in scope and depth to provide a meaningful evaluation of DOD's execution of the fiscal year 1970 military construction program. The GAO study was not intended to be a qualitative evaluation of DOD's administration of the program. GAO believes that the data in the report provides the interested congressional committees and the Secretary of Defense with a meaningful overview of DOD's management of military construction authorizations and appropriations.

The Office of the Secretary of Defense observed also that the fiscal year 1970 program had been affected by factors not mentioned in the report, such as the 1970 Presidential construction deferral, temporary suspension of the Davis-Bacon Act, and rampant inflation of construction costs.

GAO agrees that the above factors could have had an impact on DOD's 1970 military construction program. The report also cites other factors-such as changes in requirements and labor shortages--reported to GAO by various DOD officials as impacting on the military construction program. Since the review was intended to provide an overview, GAO did not attempt to include all factors which could have impacted on the program, nor did GAO evaluate the relative importance or validity of them. (See p. 13.)

### CHAPTER 1

## IMPLEMENTATION OF FISCAL YEAR 1970

## MILITARY CONSTRUCTION PROGRAM

The military construction programs are submitted yearly by the military departments to the Congress for approval and for appropriation of funds.<sup>1</sup> The House and Senate Committees on Armed Services prepare the legislation which authorizes construction in stated amounts for stated purposes at specified military installations. The legislation for family housing does not state dollar amounts by location but authorizes construction of a stated number of housing units at specified installations, and the dollar amounts are controlled by statutory unit price limitations.

The Committees on Appropriations of both Houses of the Congress prepare legislation which appropriates the moneys to carry out the authorized construction. The funds appropriated are made available to each military department until expended. In determining the amounts to be appropriated, the Congress considers such factors as balances remaining unobligated from previous years' appropriations and the probability that certain authorized projects may not need funding in the fiscal year under consideration.

For both the authorization act and the appropriation act, the Committees may approve, reject, or revise the proposed construction and the proposed dollar amount of any individual project. Upon final enactment of these laws, the nature of construction and the amounts approved for each project, including any limitations or restrictions which may have been placed thereon in the Committees' reports, become the basis for the military construction programs to be implemented by the military departments for that year.

The Military Construction Authorization Act for fiscal year 1970 (Public Law 91-142, Dec. 5, 1969) authorized construction projects as follows:

This discussion covers construction projects under the military construction appropriations. As indicated in chapter 2, certain DOD construction projects are authorized under other appropriations. (See p. 10.)

	Number of installations	Number of projects	Authorized amount
Army Navy Air Force	77 99 <u>106</u>	164 $183$ $457$	\$290,700,000 311,800,000 269,000,000
Total	<u>282</u>	804	\$ <u>871,500,000</u>

The authorization acts generally provide that the projects be awarded or otherwise obligated not later than 15 months after the end of the applicable fiscal year. While the acts allow for individual project and total installation cost increases within stated restrictions, such increases must be absorbed by decreases so that the authorized department total is not exceeded. Thus an installation or department may reduce the scope of projects or cancel them in order to provide for cost increases in other projects.

We reviewed the implementation of the fiscal year 1970 military construction programs of the Army, Navy, and Air Force, relating amounts authorized to current working estimates. We also reviewed in greater detail 79 individual fiscal year 1970 projects at 14 selected military installations for compliance with congressionally authorized costs and scopes (size and physical characteristics).

As shown in exhibit A (see p. 15), the military departments had awarded construction contracts for 585 of the 804 authorized fiscal year 1970 projects as of June 30, 1971. An additional 114 projects were awarded or otherwise obligated from July 1, 1971, to September 30, 1971. The remaining 105 projects which the Congress had authorized at a total cost of \$62.3 million were not awarded and their authorizations expired on September 30, 1971.

### COST OVERRUNS AND UNDERRUNS

Prior to advertising for construction of a project, an engineering cost estimate is prepared which encompasses the estimated construction cost and the construction agency's supervision and administration charges. The estimate is updated by the Government engineers as contracts are let and the construction work progresses. Such estimates are called current working estimates.

# BEST DOCUMENT AVAILABLE

The current working estimates for the 585 awarded projects as of June 30, 1971, amounted to \$524.3 million. (See exhibit B, p. 16, which shows that the current working estimates of the Army and the Air Force included a provision for contingencies, but that the Navy did not include such a provision.) Therefore, compared to the total authorization of \$568.8 million, the 585 projects showed a net underrun of \$44.5 million, or 7.8 percent.<sup>1</sup> The extent of the overruns (current working estimates of more than the amounts authorized) and underruns (current working estimates of less than the amounts authorized) is shown in exhibit C (see p. 17) and summarized as follows.

		Projects awarded as of June 30, 1971 Variance of Current estimates from						
			author	tes from izations				
		Number	amounts	estimates	Amount	Percent		
			0	00 omitted				
Overruns:								
Increases	over 25 percent	31	\$ 22,158	\$ 31,848	\$ 9,690	43.7		
Increases	15 to 25 percent	45	15,617	18,798	3,181	20.4		
Increases	less than 15 percent	155	150,444	159,722	9,278	6.2		
Total	overruns	231	\$188,219	\$210,368	\$22,149	11.8		
Underruns:								
Decreases	over 25 percent	99	\$ 83,670	\$ 45,472	\$38,198	45.7		
Decreases	15 to 25 percent	67	68,457	55,341	13,116	19.2		
Decreases	less than 15 percent	188	228,422	213,133	15,289	6.7		
Total	underruns	354	\$380,549	\$313,946	\$66,603	17.5		
Te	otal awarded projects	<u>585</u>	\$ <u>568,768</u>	\$524,314				

The above analysis and exhibit C show that:

- --343 projects for which the Congress had authorized \$378.9 million had current working estimates within 15 percent over or under the amounts authorized.
- --242 projects for which the Congress had authorized \$189.9 million had current working estimates more than 15 percent over or under the amounts authorized. The variations were greater than 25 percent in 130 of these projects.

As of January 1973 the current working estimates for all awarded fiscal year 1970 projects totaled \$733 million, amounting to a net underrun of 9.1 percent compared to related authorizations.

To find the reasons for the cost variations, we reviewed in more detail the status of 79 projects at 14 military installations. Of these projects, current working estimates for 41 showed underruns and current working estimates for 38 showed overruns. For those projects with variations of more than 25 percent between the current working estimates and the amounts authorized--10 underruns and 5 overruns--the contracting personnel advised us that the variations resulted primarily from imprecise preliminary designs and cost estimates supporting the requests for congressional authorizations.

One relatively large cost overrun was a control tower project at Eglin Air Force Base, Florida, for which \$73,000 was authorized and for which the current working estimate as of June 30, 1971, was \$202,000, an overrun of 177 percent. The overrun was caused by inadequate design criteria, inadequate cost estimating, delays in getting the project under contract, and rapidly rising construction costs in the area.

The basic scope of this project was not changed--a standard Air Force control cab atop an existing operations building was authorized and built--but the extent of the work required was much greater than that anticipated by Eglin Air Force Base personnel. Adequate provisions had not been made for electrical hookup of the new tower to existing facilities and for structural modifications of the existing operations building.

Examples of large cost underruns are:

- 1. A controlled humidity warehouse at the Naval Construction Battalion Center, Gulfport, Mississippi, was authorized in the amount of \$3,381,000 at the Navy's estimated unit cost of \$15 per square foot. The project was constructed at a cost of approximately \$1,867,000, or about \$9 per square foot. Personnel of the Naval Facilities Engineering Command informed us that the cost estimates apparently were too high at the time that the urgent justification for the project was prepared immediately after hurricane Camille.
- 2. A road project at Travis Air Force Base, California, was reduced 32 percent from \$339,000 to

\$230,000 because of changed requirements. Most of the reduction came from deleting a patrol road no longer required because a security area had been eliminated.

- 3. A sheet metal shop project at Mare Island Naval Shipyard, San Francisco Bay, California, was reduced 30 percent from \$3,306,000 to \$2,320,000. Naval Facilities Engineering Command personnel informed us that the underrun of \$986,000 resulted because: (a) the plans and specifications were free of discrepancies and inconsistencies which freed the bids of the usual contingencies for such discrepancies and (b) about \$212,600 was saved by using redesigned equipment and system integration.
- 4. A maintenance instruction facility at Fort Rucker, Alabama, was reduced 26 percent from \$3,636,000 to \$2,706,000. The underrun of \$930,000 was attributed to reductions of about 1 percent in the size of the primary building and about 47 percent in the size of the associated parking area for aircraft and vehicles.

Our analysis of cost underruns and overruns shows that relatively large variations occur frequently between the preliminary estimates and the final costs. The preliminary estimates, which usually are prepared far in advance of the construction, generally are not based on detailed designs which are necessary for actual construction. While this results in some lack of precision, it lessens the risk of wasting engineering and design effort on projects that are not approved by the Congress.

### SCOPE CHANGES

In the submission of military construction programs for approval by the House and Senate Committees on Armed Services and Appropriations, each individual project is supported by a military construction line item data sheet which states the justification, the estimated cost, and a description (scope) of the project including the size and physical characteristics of the facility. In our review of 79 selected projects, we compared the description of the proposed project on the data sheets with the contract specifications. We noted that in several instances changes in the configuration or design of the project from those authorized were made in the final engineering plans. In some cases, when the total cost estimate made for the final design was significantly greater than the preliminary estimate made for initial program definition and preparation of the line item data sheets, supporting items which would not alter the purpose or function of the facility were deleted when the contract was awarded. (See scope reductions in the examples of cost underruns 2 and 4 on pages 6 and 7.)

However, we did not find any major changes made in the scope of the basic facilities. For those projects where we found some scope changes, agency officials indicated that the projects when finished could be expected to be complete and usable facilities that would satisfy requirements.

### CANCELED PROJECTS

The projects authorized by the 1970 Military Construction Authorization Act had to be awarded or otherwise obligated by September 30, 1971. As of that date, 105 of the 804 authorized projects had not been obligated. The reasons for cancellation are summarized in exhibit D. (See p. 18.)

Of the 105 projects, 32 authorized for \$16.5 million were not implemented because Congress did not appropriate funds for them. For 56 other projects authorized for \$34.6 million, activity realignments, mission changes, or base closures eliminated the need for them. These projects are listed in exhibit E. (See p. 19.) An example of this situation occurred at Fairchild Air Force Base, Washington, where 17 projects amounting to \$5,236,000 had been authorized, but, as a result of a change in mission at the base, 14 of the authorized projects in the amount of \$4,317,000 were canceled.

As shown in exhibit D, other projects of the 105 were canceled for various administrative reasons. For example, the 1970 military construction program at Kelly Air Force Base, Texas, authorized 11 projects in the total amount of \$5,347,000. However contracts awarded for only 9 of the

11 projects used all the authorized funds. The remaining two projects, one for a hydrant fueling system and the other for a jet fuel storage facility, which had been authorized in the amounts of \$378,000 and \$232,000, respectively, were deleted. The shortage of funds resulted from a substantial cost overrun on a higher priority project for alteration of an aircraft painting facility. The base engineer informed us that the two deleted projects would be combined into one project and resubmitted to the Congress in the Air Force's military construction request for fiscal year 1974.

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## CHAPTER 2

## DOD CONSTRUCTION CONTRACT ACTIONS OVER \$5 MILLION

To learn the extent of cost growths and construction delays after contract award, we examined all<sup>1</sup> construction contract actions (awards or modifications) over \$5 million and related construction projects of the Army, Navy, and Air Force, for the period July 1969 through December 1970. Many of these projects had been authorized in the 1970 military construction program. During that 18-month period DOD awarded 15,804 construction contract actions worth over \$10,000 with a total value of over \$2.2 billion. Included in these were 33 actions with individual award values in excess of \$5 million.

Exhibit F (see p. 20) summarizes our findings on these contracts which were awarded at a total of \$410 million and had increased to \$434 million, or about 5.9 percent, by August 31, 1972. Most of the contracts showed delays in estimated completion dates, the average delay being about 8 months.

### COST INCREASES

Funds for constructing defense projects are approved by the Congress under the military construction appropriations, which include military family housing as a separate title, and under various other appropriations, such as procurement and research and development. For the 33 contracts listed in exhibit F, the information on cost growth is summarized below by type of funding.

<sup>&</sup>lt;sup>1</sup>Except that under this review we did not examine the costtype contract under which most of the military construction in Vietnam was being done.

		A						
	Number of	At award	As of	Percent				
Type of funding	contracts	date	Aug. 31, 1972	increase				
	(000 omitted)							
Military construction	<sup>a</sup> 19	\$305,265	\$319,866	4.8				
Procurement	8	70,933	78,150	10.2				
Military family housing	5	27,945	30,153	7.9				
Other	_1	5,635	5,900	4.7				
Total	<u>33</u>	\$ <u>409,778</u>	\$ <u>434,069</u>	5.9				

<sup>a</sup>On two of these contracts, some procurement funds were used in addition to the military construction funds.

The major reasons given for the increases in the contracts were (1) correction of design deficiencies, (2) latent and unforeseen conditions, and (3) user-requested changes.

The largest military construction contract was for construction of SAFEGUARD anti-ballistic missile facilities at Grand Forks, North Dakota. This contract was the subject of a separate GAO report to the Secretary of Defense (B-164250, Feb. 27, 1973).

The eight contracts financed with procurement funds and having relatively large cost growths were for construction of ammunition production facilities. We submitted to the Joint Economic Committee a report on these projects entitled "Cost Growths and Delays in Construction of TNT Lines at the Newport and Joliet Army Ammunition Plants" (B-173432, Mar. 20, 1973).

## CONTRACT COMPLETION DATE EXTENSIONS

A construction contract usually specifies a starting date and a completion date. For adequate reason the contracting officer may extend the completion date specified at the time of award.

As of August 31, 1972, 17 of the 33 contracts reviewed had been completed. One contract for construction of a 300unit family housing project at Nellis Air Force Base, Nevada, was completed 118 days ahead of schedule. For the remaining 16 completed contracts the scheduled completion dates had been extended by the contracting officers from 3 to 577 days, the average being 7 months. For the 16 contracts which were still active on August 31, 1972, the estimated completion dates had been extended by the contracting officers as of that date from 67 to 546 days, the average being about 11 months. The average extension for all 33 contracts was about 8 months.

Reasons given for extending contract completion dates were redesign because of user requirements and mission changes, abnormal periods of inclement weather, labor strikes, and shortages of skilled labor. In many instances the causes were unknown and unforeseeable at the time of contract award.

## CHAPTER 3

### AGENCY COMMENTS

## AND GAO EVALUATION

The Deputy Assistant Secretary of Defense (Installations and Housing) reviewed a draft of this report. He stated that our review was insufficient in scope and depth to provide a meaningful basis for evaluating DOD's execution of the fiscal year 1970 military construction program. He stated also that the fiscal year 1970 program had been affected by factors not mentioned in the report, such as the 1970 Presidential construction deferral, temporary suspension of the Davis-Bacon Act, and rampant inflation of construction costs.

We agree that these factors could have had an impact on DOD's 1970 military construction program. We also cited other factors--such as changes in requirements and labor shortages--reported to us by various DOD officials as impacting on the military construction program. Since our review was intended to provide an overview, we have not included all factors which could have impacted on the program, nor did we evaluate the relative importance or validity of these factors. We do believe, however, that the scope and depth of our review was sufficient to produce a meaningful picture of DOD's actions with respect to congressional authorizations and appropriations for military construction.

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## CHRONOLOGY OF CONTRACT AWARDS FOR FISCAL YEAR 1970

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## MILITARY CONSTRUCTION PROJECTS

	1	Number	of projects	
	Army	Navy	Air Force	Total
Awarded as of June 30, 1971	117	133	335	585
Awarded July 1 through September 30, 1971, or otherwise obligated	_27	34	53	<u>114</u>
Total awarded or other- wise obligated as of September 30, 1971	<u>144</u>	<u>167</u>	388	<u>699</u>
Canceled (See exhibit D.)	_20	<u>    16</u>	69	<u>105</u>
Total authorized	<u>164</u>	<u>183</u>	<u>457</u>	<u>804</u>

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## STATUS OF THE FISCAL YEAR 1970

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## MILITARY CONSTRUCTION PROGRAM AS OF

## JUNE 30, 1971

			Projects awarded as of June 30, 1971				
	Number of projects authorized	Total amounts authorized	Number	Amounts authorized	Current working estimates	Net underrun	
		(000 omitted)		(0	00 omitted)		
Army	164	\$290,700	117	\$177,879	176,460	\$ 1,419	
Navy	183	311,800	133	218,434	183,957	34,477	
Air Force	457	269,000	335	172,455	163,897	8,558	
Total	<u>804</u>	\$ <u>871,500</u>	<u>585</u>	\$ <u>568,768</u>	524,314	\$ <u>44,454</u>	

### Notes:

1. Unlike the Army and the Air Force, the Navy does not include a provision for contingencies in its current working estimates of construction projects. The Navy estimated that the amount required for contingencies on the 133 projects would be \$9.3 million. Adding this amount to the current working estimates, the net underrun on the Navy projects would be about \$25.1 million.

2. The current working estimates of the Air Force were as of September 1, 1971.

### VARIATIONS BETWEEN THE AMOUNTS

## AUTHORIZED AND THE CURRENT WORKING ESTIMATES

## AS OF JUNE 30, 1971, FOR FISCAL YEAR 1970

### MILITARY CONSTRUCTION PROJECTS

Percent of variation	Number of projects	Amount authorized	Current work- ing estimate June 30, 1971 ( <u>note a</u> )	Variance from amount authorized <u>under or over(-</u> )
			(000 omitted)_	<u></u>
ARMY:				
Less than 15%	75	\$131,109	\$127,855	\$ 3,254
15 to 25%	22	16,974	15,234	1,740
More than 25%	_20	29,796	33,371	- 3,575
Total	<u>117</u>	177,879	176,460	1,419
NAVY:				
Less than 15%	75	129,098	125,676	3,422
15 to 25%	29	40,129	33,855	6,274
More than 25%	29	49,207	24,426	24,781
Total	133	218,434	183,957	34,477
AIR FORCE:				
Less than 15%	193	118,659	119,324	-665
15 to 25%	61	26,971	25,050	1,921
More than 25%	81	26,825	19,523	7,302
Total	335	172,455	163,897	8,558
ALL MILITARY DEPARTMENTS:				
Less than 15%	343	378,866	372,855	6,011
15 to 25%	112	84,074	74,139	9,935
More than 25%	130	105,828	77,320	28,508
Total	<u>585</u>	\$ <u>568,768</u>	\$ <u>524,314</u>	\$ <u>44,454</u>
20				

<sup>a</sup>See notes on exhibit B.

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## REASONS FOR CANCELLATION OR EXPIRATION OF

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## FISCAL YEAR 1970 MILITARY CONSTRUCTION PROJECTS

		Number of projects					
Reason	Army	Navy	Air Force	<u>Total</u>			
Authorized but not funded	6	2	24	32			
Requirements changed, e.g., activity realignment, mission change, base closure (see exhibit E)	8	11	37	56			
Existing facilities reevaluated and used	-	-	4	4			
Authorized amounts re- quired for overrun on higher priority proj- ects	1	-	3	4			
Initial estimates too low, to be resubmitted for amended authoriza- tions	1	3	-	4			
Initial estimates too low, reprograming not justified	2	-	-	2			
Miscellaneous	2		_1	3			
Total	<u>20</u>	<u>16</u>	<u>69</u>	<u>105</u>			



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## EXHIBIT E

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#### FISCAL YEAR 1970 MILITARY CONSTRUCTION PROJECTS

#### CANCELED BECAUSE OF CHANGE IN REQUIREMENTS

(ACTIVITY REALIGNMENT, MISSION CHANGE, OR BASE CLOSURE)

Justallation	Project	Authorized amount (000 omitted)
ARMY: Granite City Army Depot, Ill. Fort Holabird, Md. Military Ocean Terminal, Kings Bay, Ga. Fort Story, Va. Sunny Point Army Terminal, N.C. Vint Hill Farms, Va. Fort Wingate Army Depot, N. Mex. Location 204 Toral	Incinerator Building alterations Sewage disposel facility Winch farm Barge-loading ramp Storm drainage Fence and demolition facility Relocation of facilities 8 projects	\$ 237 489 177 430 393 136 217 <u>1,763</u> 3 842
Iotal	o projects	3,842
<ul> <li>NAVY:</li> <li>Naval Shipyard, Boston, Mass.</li> <li>Naval Air Engineering Center, Philadelphia, Pa.</li> <li>Naval Facility, Eleuthera, Bahamas</li> <li>Naval Communications Station, Norfolk, Va.</li> <li>Naval Communications Station, San Juan, P.R.</li> <li>Naval Air Station, Cecil Field, Fla.</li> <li>Naval Ship Research and Development Laboratory, Panama City, Fla.</li> <li>Naval Air Station, Saufley Field, Fla.</li> <li>Naval Air Station, Saufley Field, Fla.</li> <li>Naval Air Station, Cubi Point, Philippines</li> </ul>	Public works facility Electric power to laboratory Desalinization plant Low frequency broadcast system Voice communications switch facility Ordnance transshipment apron Barracks Waterfront crane Aircraft operation building Reclaim seaplane-berthing area Multiplate magazine	7,682 222 141 1,400 87 125 2,130 455 211 1,060 836
Total	11 projects	14,349
AIR FORCE:		
Kingsley Field, Oreg. Volk Field, Wis. Brooks Air Force Base (AFB), Tex. Eastern Test Range, Cocoa Beach, Fla. Hamilton AFB, Calif. Do. Eglin AFB, Fla. Los Angeles AFB, Calif. Davis-Monthan AFB, Ariz. Fairchild AFB, Wash. Do.	Approach lighting Ready crew facility Research lab Duct facility Medical composite hospital Women Air Force dormitory Land purchase Dining hall Data computation center facility Aircraft maintenance dock Power check pad Operational apron	303 208 736 43 4,000 606 41 282 618 227 119 75
Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.	Mobile equipment pad Photographic laboratory Squadron operations facility Flight training facility Field training facility Field maintenance hangar Aircraft corrosion control facility Fuel system maintenance dock Test stand Avionics shop Headquarters wing Dormitory	51 658 627 138 247 175 55 146 38 173 96 1,719
Forbes AFB, Kans. Mountain Home AFB, Idaho Dauphin Island Air Force Station, Ala. Elmendorf AFB, Alaska Kimpo Air Base, Korea Misawa AFB, Japan Do. Sembach Air Base, Germany Howard AFB. C.Z. Do. Do. Special facilities Incirlik Air Base, Turkey	Communications shop Dining hall Dormitory Power generator Aircraft maintenance shop Dormitory Road Approach lighting Power check pad and test stand Fuel pump station Maintenance dock Special operations Weapons shelter	250 414 71 960 66 1,388 196 135 297 171 576 381 109
Total	37 projects	16,395
Total	56 projects	\$ <u>34,586</u>

#### COST INCREASES AND COMPLETION DATE EXTENSIONS

#### FOR 33 DEPARTMENT OF DEFENSE CONSTRUCTION CONTRACTS

OVER \$5 MILLION AS OF AUGUST 31, 1972

					Completi	on date		
	Contra		Demonstration of	Orde	d n a 1	Actual estima		Number of months
	Contr	act amount As of	Percentage of increase or		inal ed date	date a		contract
Project	At award	Aug. 31, 1972	decrease(-)		mtract	Aug. 31,		extended
	(000	omitted)						
Military construction funding:	(000	ourceed)						
Safeguard facility, Grand Forks, N. Dak. Cadet activities center, West	<sup>a</sup> \$137,859	\$143,552	<sup>b</sup> 4.1	Nov.	1972	June	1973	7
Point, N.Y.	22,340	22,773	1.9	June	1973	Mar.	1974	9
General hospital, Beaument, Tex.	15,862	16,901	6,5	June	1972	June	1973	12
Barracks, West Point, N.Y.	15,830	15,794	2	July	1971	Mar.	1972	8
500 bed hospital, Charleston, S.C. Library and educational center,	14,801	15,973	7.9	May	1972	Dec.	1972	7
Annapolis, Md.	8,863	9,667	9.1	Aug.	1972	Oct.	1972	2
Barracks, Ft. Jackson, S.C.	8,783	9,199	4.7	Apr.	1972	June	1972	2
Recruit training and housing	0,700	,	<b>+</b> • <i>i</i>	np		2 atte	1772	4
facility, Lackland AFB, Tex.	7,933	7,965	.4	Jan.	1972	Jan.	1972	-
Administration end classroom	,		• •					
building, Brooke Army								
Medical Center, Tex.	7,924	9,054	14.3	Apr.	1972	Nov.	1972	7
120 bed hospital and barracks,				•••				•
Naval Air Station, P.R.	7,265	8,076	11.2	Apr.	1972	Dec.	1972	8
Recruit barracks, Orlando, Fla.	7,077	7,668	8.3	Mar.	1972	Mar.	1972	-
Enlisted men barracks,	•	,					-	
Ft. Huachuca, Ariz.	6,970	7,283	4.5	June	1972	July	1972	1
Sewer project, Oahu, Hawaii	6,943	6,516	-6.1	Jan.	1972	Oct.	1972	9
Medical biological laboratory,			•					
Ft. Detrick, Md.	6,594	6,911	4.8	Aug.	1971	Jan.	1972	5
Aircraft surface treatment								
shop, Naval Air Station,								
San Diego, Calif.	6,372	7,049	10.6		1970	Apr.		16
Hospital, Memphis, Tenn.	6,136	6,661	8.5	Aug.	<u>1971</u> 1971	Mar.		7
ASA Location 300, Germany	<sup>a</sup> 6,007	6,703	11.6			Aug.	1972	16
Omega Navigation Station, La Moore, N. Dak.	5,993	6,159	2.8	Sept.	1971	Dec.	1972	15
Field maintenance shop,	5 71 9	F 0/0		• • •	1 071	-	1070	
Ft. Carson, Colo.		<u>5,962</u>	_4.3	Jury	1971	June	1972	11
Total	305,265	319,866	4.8					
Procurement funding:								
TNT plant, Joliet, Ill.	20,928	23,461	12.1	Jan.	1972	Jan.	1973	12
TNT lines, Newport, Ind.	9,340	12,803 ·	37.1		1971		1972	15
Nitric acid unit, Chattanooga, Tenn.	7,864	7,891	.3		1972	Aug.	1972	7
Nitric acid unit, Joliet, Ill.	7,766	7,781	.2		1972	June		17
Acid recovery unit, Joliet, Ill.	7,365	7,468	1.4		1972		1973	17
Acid area, TNT Plant, Newport, Ind.	6,298	7,315	16.1	Feb.	1971	Aug.	1972	18
Acid recovery unit, Radford, Va.	6,102	6,128	.4	Jan.	1972	Dec.	1972	11
Acid recovery unit, Chattanooga, Tenn.	5,270	5,303	6	Jan.	1972	Uct.	1972	9
Total	70,933	78,150	10.2					
Wildsom Goulde bounder fordier.								
Military family housing funding:	6 049	0 596	22.8	A	1070	*	1070	<b>.</b>
600 family housing units, Philippines 300 family housing units, Nellis AFB, Nev.	6,948 5 364	8,536	22.8	Aug.	1972 1972	Jan.		5
300 family housing units, Davis-Monthan	5,364	5,509	2.1	Jan.	1972	Sept.	19/1	-4
AFB, Ariz.	5,362	5,402	.7	Nov.	1971	Apr.	1972	5
300 family housing units, Eglin AFB, Fla.	5,196	5,196	-	Dec.	1971	Dec.		-
340 family housing units, Ft. Benning, Ga.	5,075	5,510	8.6	Oct.	1971	Feb,		4
Total	27,945	30,153	7.9					
Other funding:								
Broadcasting network, Vietnam	5,635	5,900	4.7	Ant.	1971	Oct.	1971	6
					-// -		2372	v
Total	\$ <u>409,778</u>	\$ <u>434.069</u>	<u>.5.9</u>					

<sup>2</sup>On these two contracts some procurement funds were used in addition to the military construction funds.

<sup>b</sup>A large number of change orders under this contract are still to be settled; contractor claims under unnegotiated change orders amounted to \$112 million as of April 1973. The Army, on the other hand, believes that these change orders will be settled at substantially less than the amounts claimed by the contractor.

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