THE ARMING OF FORT PULASKI 1828-1861

ROGERS W. YOUNG
NATIONAL PARK SERVICE

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THE Trace

This brief study has been undertaken in order to trace completely the successive proposals of the Federal Covernment to provide
an effective armsment for Fort Pulaski, to show in detail the construction carried on in preparation for its arming, and to explain exactly
the nature and type of ordinance actually mounted at the fort prior to
the year 1861. Meterials spon which this study has based have been in
the main original letters and reports taken from the second Section.
Office, Chief of Engineers, Smited States Army, Rashington. The writer's
acknowledgment of the capable and coupleous sid received in this office
is gratefully extended.

Rogers W. Young.

Sanuary 15, 1935.

CONTENTS

	• 1	*	*		* •	* *	* 1		• •	* *	* *	* * *	* *						ix	ppeno	Ä
*	* 1			• 4					* *	• •				3	198	Ι.	Le :	Tabl	inance	. ord	1
	•	•	4	4 4	• •				+ 4				**	L	183	L,	11	īA	*#	•	B
,	• 4			* *										5	13	Ĺ,	11.	**	#4		. 3
	• (• •						* *)	184	1	I	**	##		4
	* (* 1									2	184	1	1	y ë	At		5
					* 1			,	• •				*.*	5	184	ĭ,	V.	#1	**		6
															185	Ι.	AI	**	10		7

the original estimate of memoir" of the present fort on Cockspur Island, Savannah river, Capraia, transmitted byleneral Simon Bernard, to Major-Ceneral Alexander Rosent, Chief of Sameors, on Janusry 17, 1828, called for a total armament, of the propose fort and bes outworks, with one hundred and forty-three pieces. With the fart, the pieces were to be mounted an follower, on the porth ad south faces, eight on the first and second tier, and eight on the platform. / total of techty-four guns on each of these two faces; on the pirtheist and southcast faces, ten on the first and assend tier, and ten on the platform, a total of thirty guns on each of these two faces; to in the thise angles. of the fort, to be mounted thus; one in the angle of the northeast and southers faces on the first tier, one in each agle of the second tier, and two in each angle of the platform; six in the gorge face; a grand tal of one hundred twenty-four pieces. Bixtoon places, eight conters, and eight havitzers work to be mounted in the advanced bettery. Finally three gume were to be placed in the ravelia or demi-late, to pretest the sally-port.

Descriptive Homoly, analysis of prices and catimate relating to a projected fort destined to defend the entrance of Savannah river, State of Georgia, 1828," Enclosure in Letter General Simon Bernard, to Major General Alexander Macont Letter of Ingineers, Tannary 17, 1828, File No. S. S. S. S. Section, Office, Chief of Ingineers (Phis office hence to be sited as 2.3.) Myor of the guns not specific the location of the six is the games wall.

When the plans of the projected fort were revised in the late summer of 1831, the total of the armament for the proposed fort.

Was also changed. The revised project for the fort on Cockspur Island.

As transmitted by Lieutenant Foseph K. F. Manefield, to Ceneral Charles

Gratict, Chief of Engineers, on September 30, 1831, called for a revised

armament to consist of one hundred and seventy-two pieces. The guns

were to be mounted within the fort as follows: lower tier, twelve guns

in each of the four faces, one in each angle, and two carrenades in each

demi-bastion, a total of fifty one gans and four earmonades; upper tier,

twelve guns on each of the four faces, two on each demi-bastion, and five

on the gorge wall; making a grand total for the fort of one hundred eleven

guns and four darronades. In the demi-lune, there were to be fourteen guns

on each face, and one on the pan-coupe, a total of twenty-nise guns. In

the advanced battery were to be twelve guns, eight mortars, and eight howit
mers.

No further mention is made of the proposed armament for Fort 3.

Pulaski until March, 1835, when Lieutenant J. K. F. Manafield suggested a drastic change in the fort's ordnance. The Angineer Department, on February 84, 1835, had issued an order to Lieutenant Manafield, requiring an immediate atstement on the several classes of guns to be peeded at Fort Pulaski. This request apparently same as the consequence of the them un-

The fort had been named on ipril 18, 1888, by the Secretary of Rar. See Separal Green Book, Adjubant Separal's Department, Vol. 6, p. 205 ... Bib., File No. 8, 1888, Barch 19, 1885.

^{**}Revised Project for a Port on Cockspur Island, Savanash River,
Coorgia. Sept. 24, 1831.* Enclosurs in letter, Lieutemant J.K.V.
Manefield, to Meneral Charles Gratiet, Chief of Engineers, Sept. 30,
1831, File No.M.881, R.S. Types of guns, with the exception of the
carrogades again not specified

settled and uncertain foreign relations between the United States and

France. In his annual message to Congress, on December 2, 1834, President

Andrew Jackson, had recommended that Congress pass reprisal laws against

France, or adopt other stringent measures to secure redress from that

nation for its failure to pay American claims arising from Franch aggression

on our commerce during the period 1800-1817. Only three years previously,

on July 4, 1831, France had signed a convention with the United States, in

which it had been stimulated that France would immediately begin payment

of the commerce claims. When President Jackson delivered his message in

December, 1834, the French Government had "not fulfilled the above stipula
5.

tions."

Charles Gratiot, Chief of ingineers, on March 19, 1835, in response to the Department's request of rebruary \$4, sutlined his recommendations as to 6. the armament actually required by the fort. Basing his recommendations on 7. the armament as analyzed and proposed by the Board of ingineers in 1831, he made the rather startling suggestion that the fifty-one casemate guns be entirely dispensed with as ineffective. Even before the casemates were built, he was apparently anticipating the trouble that the poor Confederate gun-

^{5.} Abridgement of the Debates of Congress. D. Appleton N.Y.1859. Vol. XII, 1832-36, 524-26.

^{7.}R.S., File No. M.1533, March 19, 1635.
7.R.S., File No. M.651, September 30, 1831. The practice followed in the original letters and reports, upon which this study is based, in designating the guns on the first tier of the fort as "casemate guns" and those on the barbette tier as "barbette guns" has been adhered to in this study.

ners were to encounter twenty-seven years later, when they attempted to secure an effective elevation for the fire from the easemeted guns. Of the one hundred and two suns intended for the four battery faces, by the 1831 report, he suggested the retention of only the fifty-one en barbette, those to be long thirty-two pounders, mounted on seaconst carriages. However, the four, tempty-four pounder corronades, to be mounted in the casemates of the desi-bestions, for the defence of the flanks and ditch and drawbridge of the gorge and demi-lune, sere to be retained. Lieutenant Manefield stated that while preference had been given to the barbette guns because of the great distance of the mid-channels to be commended on either side of the fort, at least one-half of the carriages of the casemate funs should be retained in order that certain gues might be transferred if mecassary. In the demi-lune the twenty-nine, long thirty-two pounder guns were to "be dispensed with, and a few field pieces substituted to be more secure against a coup-de-main." Finally, the armament of the advanced battery, twelve, long therty-two pounder guns, eight mortars, and eight howitzers, could be eleminated, with the exception of the mortars, "and even balf of these provided the Tower on Tybes be armed with a long 32 pdr. on a pivot." Concluding his recommendations. Lieutenant Mansfield observed that if the number of the guns should be reduced, "the ordinary garrison of two hundred and fifty men in time of war would be insufficient as the defence of the work against insult(sic) would depend more on sonll ares."

Megotistions with France for the payment of the Amorican commerca claims continued unsatisfactorily during the rest of 1935, resulting in the first actual move to arm the new fort in process of construction on Cocksour Island. Following President Jackson's incondiary assesse in December, 1884. Congress had found it inexpedient to mass at that time any laws in regard to France, la the meantime. relations between the United States and France." had appropriated the money for the discharge of her obligation to the United States, but had withheld payment, pending an explanation from President Jackson as to the meaning and tone of his message to Congress in 1834, woon which Such was the state of relations between the the payment was contingent. United States and France, when early in December, 1835, President Jackson delivered his annual message to Congress. The message explained the situation and concluded by observing that France was assuming on indefensible position is objecting to a domestic paper delivered by the head of a foreign govern-Prosident Jackson was apparently attempting a too fine spun discrimident. mation, when his intent had been clearly obvious.

Reperturations from this ungatisfactory states of affairs were soon expressed in the United States by a move to place the seacoast defenses in order. On December 30, 1936, Rejor-Constal thexacter bacomb, commanding the United States Army, in a latter to General Charles Gratiot, Chief of Inginoers, observed

10 THE . 689-691

^{8.} Abridgement of the Debates of Congress D. Appleton, N. Y. 1889, Vol X11, 1838-1836.657-58.

"Considering the state of our relations with France and apprehensive that our defences, from the want of means, are not in the condition they ought to be. I have to request that you will cause the various assailable points to be examined, particularly those below enumerated, with a view to applying all our means --- to putting in a more powerful state of defence the --- important approachable points --- along the seacoast.

Important as no the "places to which attention is required." he listed Savannah.

Pursuant to this request, the Engineer Department, on January 11. 1836, informed Lieutenant Manafield that only six barbatte guns and carriages could be furnished by the Ordnance Department for the defence of Savannah prior to March As soon as the guns were received, however, Manefield was instructed to take immediate mensures to mount them wither at Fort Pulsski or Fort Jackson, as he saw fit. Excitedly, Manafield wrote on January 30, that he had decided to place the six guns on Cockspur. In case that war actually occurred, he proposed that a temporary fort and block house be built on the parade of the persament work than being constructed. He also recommended the "fitting up" of the two magazines at Fort Pulaski, and the planing of platforms on the piers at Fort Jackson so that the latter could be used as an amunition depot. To install the proposed battery of six guns, one thousand dollars sould be required, and should be transmitted immediately. But, he concluded. /no notice had yet been received of the shipment of the six guns. Monefield apparently viewed the entertaining possibilities of a war with enthusiasm. Perhaps any avenue of escaping the tedium of the construction of Fort Pulaski was then attractive.

^{11.} R.S., File No. M. 1631 December 30, 1835.

^{12.} R.S., File No. M.1645, January 25, 1836. 13. R.S., File No. M.1648, January 30, 1836.

Unfortunately, the possibilities of an actual use of Mansfield's proposed battery soon faded. Twice in February, 1836, he sent plaintive reguests that the guas be forwarded. But still no guns were received. With the gueridle warfare of the discontented Seminole to be faced in Florida just then, the United States, was too busy to press a foreign difficulty. With the adoptator of a mure amenable position by France all cause for alarm passed. So ended the first actual move to mount guns at Fort Pulacki. By February 24, the Engineer Department had informed Lieutenant Hansfield that the "cause for erecting a battery at Cockspur Island, "having been removed the work would not be required. In reply, on March 9, Lieutenant Mansfield announced that the slarm had dauged no real interruption on Cockspur since no expanse had been incurred and neither had any suns been received.

Larly in the spring of 1839, the construction of the fort's malls had advanced sufficiently to enable guns to be sounted, temporarily if necessary 15.

In the bettery casemates. On March 6, Captain Manafield urged his superior, Colonel Joseph C. Totten, Chief of ingineers, to stip "without delay," thirty-six casemate searcoast guns and carriages complete, with four currenades and carriages, "to be his madiately placed is battery for the defence of this position." Captain Manafield observed that in a short time the work might be put in a condition to make a "handsone defence," if necessary. He also suggested that a

^{15.2.} S., File No. E. 1868, Merch 9, 1836.

le. Ibid.

^{17.} R.S., File Nos. M. 200, Nov. 19, 1838; M. 304, March 6, 1059.
18. Lieutement Ennefield was promoted to Captain on July 7, 1838.

5. File No. 304, March 6, 1839.

number of the guns at Fort Moultrie, Charleston Harbor, might be transferred in charge of an ordnance officer, should need for their use actually arise.

His urgent solicitude apparently was engendered by the disturbed state of the relations between the United States and England. 1834 the British Government had re-opened negotiations with the United States to settle the northeast boundary between Maine and the English New Brunswick. Sather futile negotiations during 1835 and 1836 had been harshly interrupted in December, 1837, by the Caroline spicode. Despite the aroused state of American feeling, the British initiated a new accoment to fix the boundary, early in 1838, late in that year, and in January, 1839, the renewed negotiations were further aggravated when border warfare broke out between citizens of New Brunswick and the Maine militia. On February 26, President Van Buren sent a message to Congress requesting extraordinary powers to deal with the Though a temporary truce was drawn up between the two governments situation. next day, on March 2 and 5. Congress authorized the President to call out fifty thousand volunteers and voted several millions dollars to protect (merican interests in case of invasion. With the mational feelings of England and the United States in such a turnoil, the actual outbreak of hostilities was not impossible, and Captain Manafield apparently desired to be prepared for auch an exigency.

^{19.} Bemis, S.F. (Ed.) The American Secretaries of State and their Diplomacy.

^{20.} N. T. 1988. Vol. IV. p. 329. Congressional Globe, 25 Gong, 2 Sess., Vol. 6, pp. 81-65; cf., Bemis.op.

^{21.} Congressional Clobe, 25 Cong. 2 Sess, Vol. Compacist; ef., Semin, op. cit

^{22.} p. 355.
Congressional Globe. 25 Cong. 3 Sess., Vol. 7, pp. 222-28; cf., Bemis. op.

^{25.} Cit., p.333. Congressional Olobe, 25 Cong. 3 Sess., Vol. 7, 99.226-27; 241-44.

Throughout the remainder of the year, in addition to his construction problems, Captain Mansfield was immersed in study on the subject of plans for mounting various types of guns. Although construction of the fort was not then sufficiently advanced actually to mount permanently any he was already making preparations to mount both easemate and type of gun. barbatta guns. On September 2, the Engineer Department transmitted to him information on the mode of securing the traverse circles of the barbette guns. Nine days later he requested from the Department the "complete plan of the adopted barbatte seacoast carriages with guns mounted thereon. " On November 2, he requested the Department to furnish him with a sketch of the mothod of "laying out and constructing" the circles and centres for the seaconst barbette gup carriages. He then turned his attention to the plan by which the casemate or embrasure guas were to be mounted requesting information on this point He received this information from the Department by December 18, and on the same date forwarded to the Department "a plan herewith of eabrasures and battery flanks," in order that the problem he faced in the casemates might be understood in Washington.

His difficulties in planning the gun mountings continued in 1840.

On Japuary 21, the Department was requested to furnish the technical information necessary to the building of the barbette gun mounts behind the parapet 30.

walls. It this time, Captain Manefield announced to the Department that

²⁴ R. S. File No. M. 409, Oct. 22, 1839.

^{25.}R.S. File No. M.394, September 11,1839.

^{26. 151}d. 27. R.S. Pile Bo.M. 418, November 2, 1839.

^{28.}R.S., File No.M.436, December 6, 1839.
29.R.S., File No.M.441, December 18, 1839; See plan, Drawer 70, Sheet 8, "Plan of the Casemate embrasures of Fort Pulaski, "Construction Section,

^{30.} Office. Chief of Engineers (U.S.) R.S., File No. MASS., January 21, 1840

"The casemates of the Battery Fronts of this work will be in a few days in a condition to receive the guns should occasion require them to be mounted before this work will be funished, with this exception however; the iron segments have not been procured and cannot be out of the present available funds, and two casemates in the centre of each (battery) front having been arched over the cisterns, will require stone segments to be cut to receive the iron segments which cannot be executed out of the present available funds."

In the meantime, the Department apparently had requested information on the size of the floor space available in the casemates for the mounting of guns there, and on February 5, Captain Manafield, in reply, forwarded a plan of the casemates, remarking

"I have made a plan which you will find herewith enclosed marked a adapted to the essemates of this fort."

puring the spring of 1840 relations with England over the mortheastern boundary question had continued unsettled. The trial by New York sourts
of one of the Canadian insurgents in connection with the Carcline episods, and
the alleged violation by New Brunswick citizens of the fagues between England
and the United States over the disputed boundary area, soon precipitate; another
convulsion of jinguistic feeling in both countries. It is not unusual them, to
find Captain Manafield warning the Department that "if there be a possibility
of a rupture with England in 1840, it would be well to look to the amament of
Pulaski---- writing on March 2, he urged that arrangements be made for such a
possibility

Sig-24; of., Bemis, op. eit., Vol.V, pp 14-16.

[&]quot;Sketch of Casemates of Fort Pulaski," Construction Section. Office,
Chief of Engineers (U.S.)

"Or ingland with the aid of two ships and 500 men may save the government that trouble as that power undoubtedly are as well informed of the condition and progress of this work as the Department can be. This position is the Key to the Inland Marigation between Charleston and St. John's River, and the defence of mayanmah and once in possession of the enemy will be held in spite of all the efforts of a power dependent on militia for defence."

Concluding this admonition, he approunced that the magazines of the work could be "fitted up" and the main gate made and nung on short notice, and the iron tracks for the casemate guns laid if the necessary funds could be provided. Finally, he stated that he had sant the communication in order that "timely preparation" could be authorized if needed. On March 20, he transmitted to the Department for its imprection, an illustrative diagram which he termed, "Plan of the carronade embrasures in the face and flank of Bastion, Fort Pulaski. " During the remainder of the month he made active preparations to receive and mount fune should the Department decide to forward any. Masons were busy laying some of the foundation stones for the gun traverse tracks over the cisterns in the bat-34. tery fronts.

Meanwhile the Department apparently had decided to heed Captuin Manafield's warning of March 2, and had informed him of the intention to forward some twenty guns to Fort Pulaski. On April 6, he asked the Department to inform him when he might expect the twenty gune; at the same time stating that his inquiries of the ordnance office at Augusta, Georgia, concerning them had elicited no reply. He also observed that there then existed "no obstacle to their being

55. B.S., File No. M. 497, April 6, 1640. 36. Ibid.

^{35.} R.S., File No. W. 480, March E, 1840. 34. See plan, Drawer 70, Sheet 11, Construction Section, Office, Chief of Angineers, U. S. army: of., letter, Colonel J. G. Totten, Chief of Engiasers, to Captain Mansfield, March 26, 1840, No.7 Letters to Officers of ingineers, p. 428; cf., R.S. File No.M. 494, April 2, 1840.

week dater. On April 14, he informed the Department, in a postscript to a routine letter, that

"P.S. The 20 guns are now landing-but ord. (nance) Dept. omitted to ship their lower carriages giving no reason therefor on invoice." 37.

The first shipment of ordnance intended for Fort Pulaski had finally arrived, but under circumstances very exasperating to Captain Manafield. Construction work at the fort had mearly closed for the year, and the Department had authorized Captain Mansfield to come North as soon as the guns could be Eager to leave the island, his departures was to be prevented for mounted. several weeks by the Ordnance Department's negligence in failing to send the proper carriages, and tackle with which to handle the guns. Captain Mansfield reported, on April 21, that while the guns had been received at the fort wharf on the South Channel, their lower carriages had not yet arrived, not had any notice been received of their shipment. The guns could not be handled and mounted with his present machinery, as hitherto there had been no occasion for the use of a sling cart, which was now necessary. He urged the Department to have the Ordnance Department ship the carriages and necessary tackle at once. stating that the fort's business in the North would be injured if he had to remain on the island too long. Further complications arose from the fact that most of the laborers had been discharged for the year, and there was no ades quate force on the island to handle the guns. The Ordnance Department had

³⁷ R.S., File No.M. 506, April 14, 1840.

³⁶ The shipment consisted of 20, long 32 pounder casemate guns. See R.S., File No.M.590, Oct. 17, 1840.

³⁹ Ris., File Nos., M.480, March 2, 1840; M.494, April 2, 1840; M.498, April 7, 1840; M.509, April 21, 1840.

⁴⁰ R.S., File No. M. 509, April 21, 1840; cf., File No. M. 649, March 18, 1841. 41 R.S., File No. M. 523, Way 6, 1840.

sent no laborers to handle the guns and had provided no money for their handling. Captain Mansfield notified the Department, on April 25, that he had
been forced to advence funds to the Ordnance Department for laborers in order
that the guns could be unloaded at the fort wharf from the steamboat on which
42.
they were shipped from Augusta. He also observed rather impatiently that information concerning the shipment of the lower carriages for the guns still had
not been received.

week later. In reporting to the Department on the progress of the mounting of the guns, Captain Mansfield, on May 2, stated that Captain Harding, of the Augusta Arsenal, was in charge of the mounting of the guns. He also reported that while the chassis of the guns had been received, and all the guns placed in the case—mates, they could not be mounted as the wheels for the chassis would not fit. The iron sarriages for the guns also had arrived but were still at the wharf, at this 43.

time. As long as these delays continued, Captain Mansfield's stay on the island had to be prolonged, since the presence of an ingineer officer was required at a work in which an ordenace officer was mounting guns. Several weeks later however, the remaining obstacles were overcome. By May 30, 1840, the first twenty guns of the Fort Pulaski armament were finally mounted, and on that day Captain Mansfield took his long-delayed departure for the north.

⁴² Ibid; cf., R.S., File No. M.514, April 25, 18401cf., File No. M.509, April 21, 1840.
43 R.S., File No. M.518, May 2, 1840.

⁴⁴ N.S., File No. M.523, Nay 6, 1840

⁴⁵ R.S., File No. M.530, May 30, 1840; cf., File No. M.590, Oct. 17, 1840.

the fort to a minimum until late in 1841. Puring this period, Captain Manafield 46.

was in the North attending to various business for the fort. In February 12,

1841, he recommended the purchase of stone for gun carriage segments, and from 47.

for gun traveres tracks. The Engineer Department forwarded to him, on August 25, 1841, plans and drawings illustrating the method of laying the stone traverse circles and wintle blocks for the barbette guns. Summarizing the work accomplished by September 30, in preparation for the mounting of additional guns on Fort Pulaski, Captain Manafield noted the purchase of iron for the remaining carriage tracks of the casemate batteries, and for forty-five guns of the barbette battery; and the purchase of the remaining stone segments for the eight casemate guns over 49.

Returning to Fort Pulaski on October 23, Captain Mansfield immediately 50.

reopened construction operations. Soon he focused his attention on the special problem of making preparations to mount additional guns. On October 27, he requested the Engineer Department to send him complete information on the mounting of the barbette guns, stating that he was now ready to begin the construction of 51.

the foundations for these guns. Practically a month later the information requested had not been transmitted, and Captain Mansfield again asked for the

^{46.} R.S., File No. M.733, Oct. 14, 1841.

^{47.} R.S., File No. M.633, Feb. 12, 1841.

^{48.} R.S., File No. M.709, Aug. 25, 1841.

^{49.} R.S., File Nos. M.733, Oct. 14, 1841; M.769, Nov. 17, 1841.

^{50.} R.s., File No. M.745, Oct. 23, 1841.

^{51.} R.S., File No. H.750, Oct. 27, 1841.

52.

Department's decision on the position and mounting of the barbette guns.

Two days later, November 27, 1841, the Department forwarded to Captain Manafield

a "Plan showing the positions of the barbet guns of Fort Pulaski, with details

53.

of the platforms," accompanied by a letter of explanation. Approximately a

week later, he had received this plan, and had requested the Department to make

an immediate shipment of plates, pintles, and bolts for the chassis of the forty
54.

five barbette guns. In summarizing the work accomplished during November,

Captain Manafield, on December 6, stated that the masons had been occupied in

setting stone traverse segments over the cisterns of the battery fronts, and the

carpenters in setting iron gun carriage tracks in the battery casemates. This

work on the stone gun segments and earriage tracks of the casemate batteries con
timued during the remainder of December, 1841.

Early in Jamuary, 1842, Captain Mansfield requested the Department to give a decision upon his project to begin the drilling of the pintle blocks for made the barbette battery. In an informal report on the status of the work, near the end of the month, he outlined the existing extnance situation at Fort Pulaski. Most of the iron tracks for the casemate guns were then laid, including those under nineteen of the twenty guns then at Fort Pulaski. The twenty guns were mounted in the following positions: three along the south front, two on the southeast front, seven on the east front, seven on the north front, and one in the northeast angle. He observed that the nineteen guns under which

^{52.} R.S., File No. M. 774, Nov. 85, 1841.

^{53.} See plan, Drawer 70, Sheet 14, Construction Section, office, Chief of Engineers, U. S. Army; of., R.S., File No. M.761, December 6, 1841.

^{54.} R.S., File Nos. M.779, Dec. 4, 1841; cf., M.781, Dec. 6, 1841.

^{55.} R.S., File No. M.780, Dec. 6, 1841.

^{56.} R.S., File No. M. 798, January 7, 1842.

^{57.} R.S., File No. M. 799, January 7, 1842.

the tracks had been laid were at last completely in readiness for actual use.

He also had on hand granite segments for forty-five barbette guns, and stated
58.

that the remaining eleven would be included in the next estimate. By March 15,

his request for bolts, plates, and pintles for the barbette guns not having been

complied with, he reiterated it, and asked for thirty-nine sets, eleven to com
plete the barbette gun complement, and twenty-eight for the demi-lune.

Work in connection with the mounting of additional guns was not resumed until May when further iron gun tracks were laid in the casemates, and pintles for the casemate embrasures were cut and fitted. During June the Laying of the casemate gun tracks was completed, and forms for the concrete foundations of the barbette gun segments constructed. The concrete foundations of the barbette some on the northeast and southeast fronts were completed and six pintle In July the pintle blocks and segments for the barbette battery blocks set. were transported to the terreplein of the fort. All but two of the blocks were then in place. secured Six segments were also set. During the month all of the concrete foundations for the segments of the barbette guns were completed. By the end of August all of the pintle blocks and segments of the barbette battery had been set On August 25, Captain Mansfield reported that he had not yet recomplete. In summing up the fiscal year's work ceived any barbette guns for his work.

^{58.} R.S., File No. M.816, Jamary 26, 1842.

R.S., File No. M.841, March 15, 1842.

^{60.} R.S., File No. M.887, June 4, 1842.

^{61.} R.S., File No. M. 906, July 5, 1842.

^{62.} R.S., File No. M. 932, August 4, 1842.

^{63.} R.S., File Nos. M. 948, August 25, 1842; M. 950, Sept. 3, 1842.

^{64.} R.S., File No. M. 942, August 25, 1842.

at Fort Palaski in connection with its armament, Captain Manafield, on October 5, 1842, noted the installation of the pintle blocks and stone segments for fifty—six barbette guns, all laid in readiness for the iron traverse tracks; laying of the stone traverse segments over the eight cisterns in the battery casemates; and the completion of the laying of the iron gun tracks in the casemates. Twenty-eight granite pintle blocks and segments for the demi-lune guns had been procured, but 65.

Following a long suspension of construction at Fort Pulaski during late 1842 and early 1845, the work was resumed in the summer of 1845, with special attention being placed on the construction of the demi-lune. By January 23. 1844. work on the demi-lune had progressed to the extent that the consideration of plans for the mounting of guns thereon was necessitated. On that date, Captain Wansfield requested of the Department that the "plan for securing the pintle blocks as now set in the main work, be furnished soon; as the present is the most favorable time that probably will ever occur here to do the work." Apparently Mansfield had misplaced his original plans which had been followed in erecting and securing the pintle blocks of the fort's barbette battery during 1842. Before the end of the month however, the Department had forwarded to him a new "plan for securing the pintle blocks of the Barbette Battery," intended for his use when the demi-lune During February, March, and May, 1844, finishing gun mounts were installed.

^{65.} R.S., File No. M. 976, Cct. 5, 1842.

^{66.} R.S., File Nos. M. 976, Oct. 5, 1842; M.1125, July 28, 1843; M.1224,

A7 January 7, 1844.

^{67.} R.S., File No. M. 1235, January 25, 1844.

^{66.} R.S., File No. M. 1245, February 15, 1844.

work was resumed on the platforms of the barbette battery of the fort, and the fitting of the iron traverse tracks to the stone gun segments already laid, was carri69.
ed out to completion. Late in November, 1844, work was recommenced on the barbette
battery, and the gun pintle blocks on the south and southeast fronts were strengthen70.
71.
ed with concrete. Similar work was continued in December, 1844.

A change of commanding officers was destined for Fort Pulaski during the year 1845. Captain Mansfield, who had faithfully retained the command for fourteen years applied for a transfer on May 31. 1845. He gave as his main reasons for the desired change, his poor state of health, and the approaching completion of the fort. Since immediate action could not be taken on this request by the Department, Captain Mansfield then requested a leave of absence from July 1 to November 1, 1845. This Frior to his departure from the island, however, the Dewas granted on June 16. partment began an investigation of the exact status of the work. On June 11, the Department requested Captain Mansfield to forward a complete inventory of the existing ordnance at Fort Pulaski. This order was complied with on June 20. ment of Fort Pulaski then consisted of twenty, long thirty-two pounder casemate guns, mounted complete, with one thousand suitable shot, but no powder. The maxazines. two in number, on either end of the gorge face, were then ready to tredeive powder at

^{69.}N.S., File Mos.M.1261, March 11,1844; M.1278, April 5, 1844; M.1380,October 18,1844.
70.

R.S., File Nos. M.1312, June 11,1844; M.1396, November 4, 1844; M.1409, Dec. 7,1844.

B.S., File No.M.1423, January 7, 1845.

^{72.}

E.S., File No. M.1475, May 31, 1845.

^{73.}

Ibid.;cf.,R.S., File No.N. 1480, June 10, 1845.

S.S., File No.M. 1482, June 20, 1845.

any time. Captain Manafield stated that the ordnames then required to complete the armament of the fort's casemate dattery consisted of: thirty-one long thirtytwo pounders and four carronades, or howitzers for the flanking defence, with suitable carriages and implements, and an adequate supply of balls and shot. The remainder of the ordname required for the fort and outworks included: barbette of main work, forty seacoast twenty-four pounders, twelve seacoast eight inch howitzers, two eight inch seige howitzers, and four eithteen pounders; demi-lune, fourteen seasoast thirty-two pounders, fourteen seasoast twenty-four pounders, and two cochorns; advanced battery, one thirteen inch, and seven ten inch heavy seacoast mortars. Captain Manefield requested the immediate shipment of the guas for the casemate battery, and that the other guas be shipped as soon as desirable "if there be a distant prospect of war." The Mexican-Texas situation was then gradually assuming a hostile aspect, and apparently Captain Mansfield was already entertaining some vague fears over the comparatively unarmed condition of Fort Pulaski, in the face of a possibly throatening exigency. In concluding this inventory, he announced that the armament schedule as given in the Department's letter of March 21, 1842 for Fort Pulaski, had been followed in outlining necessary requirements, with the exception that one gun had been added to the demi-lune complement, and two additional for the barbette.

It is well to pause just a minute and analyze the proposed armsment of Fort Pulsaki in the light of its modifications since the Department's projected ordnance schedule of 1831. Manafield in 1835 had suggested a drastic reduction of the Department's ordnance schedule of 1831, advising that the 1831 total of one hundred and seventy-two pieces be reduced to less than half. The Department

apparently did not heed such a sweeping suggestion, however. The Department's letter of March 21, 1842 had enclosed a new schedule of ordnance calling for a total of one hundred and forty-eight pieces. In his letter of June 20, 1845, just noted, Captain Mansfield, in outlining his suggestions as to the projected armament of Fort Pulaski had followed the Department's schedule of March 21, 1842, except that he had added three guns, making a new total of one hundred and fifty-one pieces.

Several days later, on June 24, 1845, the Department informed Captain
Mensfield that a requisition had been made for all the guns proposed for the main
work, but not for those of the demi-lune, since it was believed that the latter
75.
guns could not be mounted at an early date. In acknowledging this communication, Captain Mansfield, on June 28, remarked that he feared the Department's decision on the demi-lune guns to be based on the supposition that the breast-high
wall of the demi-lune had to be constructed before the guns could be mounted.
However, he continued, if the Department would allow him to substitute an earth
slope temporarily for the breast-high wall, the parapet could be placed immediate76.
ly, as could the remaining pintle blocks and segments for the guns. This re-

78.

^{76.} The Department's requisition, though never filled, included:

^{31, 32-}pdr.guns - casemate

^{4, 24 &}quot; carronades - casemate

^{40, 24 &}quot; guns - barbette

^{4. 18 &}quot; guns -

^{12, 8} in. seacoast howitzers - barbette

E, 8 " seige

carriages, etc.

See Latters to Officers of Engineers No. 13, p. 206; of., letter, Captain Mansfield, to Colonel Totten, Chief of Engineers, June 28, 1845, supplement to R.S., File No. M. 1488, June 20, 1845. Ibid.

quisition for the additional gums of the fort was never to be filled.

During June, July, and August, 1845, additional concrete supports were 77.

placed under the pintle blocks of the barbette battery of the fort. Meanwhile,

Captain Manefield had left fort Pulaski for the last time, on July 1, 1845, and on 78.

August 11, he was ordered transferred to the Texas frontier. A communication from Lieutenant B. S. Alexander, temporarily in command of Fort Pulaski, near the end of the summer, contained evidence that an ordnance sergeant had been stationed at the fort, apparently for the first time. On august 12, 1845, in transmitting a requisition for miscellaneous ordnance stores, he informed the Department that "we have an ordnance Sergeant here now and guns are much in want of lacker (sic) 79.

and oil and carriages of putty and paint."

In September, Lieutenant B. S. Alexander, who had now succeeded Captain Mansfield, as commander of Fort Pulaski, carried on further negotiations with the 80.

Department in regard to the completion of the demi-lune, and its armament. The Department requested additional information concerning the proposed breast-high demi-lune wall on September 3. Before Alexander could answer, explaining his plans by which the wall was to be built, and additional demi-lune gun platforms constructed, the Department authorized the construction of the wall on September 10.

Alexander thereupon immediately began its foundations. A few weeks later, in summing up the work accomplished at the fort during the fiscal year 1844-45, and ecommenting on the project's status, Lieutenant Alexander observed on October 6.

^{77.} R.S., File Nos. M. 1490, July 1, 1845; A.461, August 4, 1845; A.467, September 4, 1845.

^{78.} R.S., File Nos. M. 1492, July 1, 1845; M. 1505, August 14, 1845.

Exactly what this requisition called for is not known, but it apparently included only maintenance supplies. See R.S., File No. A.464, August 12, 1845.

^{80.} R.S., File No. A.474, October 6, 1845. 81. R.S., File Nos. A.468, September 12, 1845; A.474, October 6, 1845.

"Work is now susceptible of a strong defence. Within the main gate the fort is ready for all its guns, and the Demi-Lune and advanced Battery could be prepared for their guns on short notice." "BE.

During October and November, 1845, Lieutenant Alexander continued the work on the gun platforms of the demi-lune. In October concrete foundations of certain of the traverse circles were laid and additional pintle blocks were prepared and set. This work was concluded in November with the completion of the concrete under the traverse circles and around the pintle blocks, and the setting of the circles and blocks. About the middle of December, 1845, work was suspended at Fort Pulaski, and Lieutenant Alexander transferred eleven miles up the Savannah river to Fort Jackson, the repairs of which he was to supervise for the next seven months. During the interim Fort Pulaski was left in charge of the Cadanace officer then stationed there.

Lieutenant Alexander returned to Fort Pulaski on June 22, 1846, and im85.

mediately reopened operations. On July 15, he transmitted to the Department a
86.

requisition for additional ordnance supplies. During August masonry blocks
were constructed around the pintle centers of the demi-lune gun mountings, and in
87.

September further traverse stones for the demi-lune guns were set. By October
6, all the work in connection with the demi-lune gun mountings had been finished

^{88.} R.S., File No. 474, Cet. 6, 1845.

^{83.} R.S., File Nos. A.483, Nov. 3, 1845; A.487, Nov. 17, 1845; A.491, Dec. 1, 1845. R.S., File Nos. A.486, Nov. 14, 1845; A.562, July 1, 1846. The exact identity of this officer is not known, but he was probably Sergeant James H. Willard, who was at the fort two years later, See R.S., File No. A.663, May 3, 1847.

^{65.} R.S., File No. A. 562, July 1, 1846.

^{86.} E.S., File No. A.565, July 15, 1846. The type of supplies asked for is not

^{87.} Known. R.S., File Nos. A.579, Sept. 4, 1846; A.591, Oct. 3, 1846; A.592, Oct. 6, 1846.

with the exception of the laying of the gun tracks, an operation apparently 88.
never to be fully completed.

No further work in preparation for the mounting of additional guns at Fort Pulaski was carried out before the practical completion of the fort atructure early in 1847. On April 3, 1847, Lieutemant B. S. Alexander reported to the Magineer Department "that at date everything in, about, or pertaining to the main work ami its outworks is complete, and they are now ready for their 89.

entire armament." His optimistic outlook on the possibility of an early completion of the fort's armament was destined never to be fulfilled prior to the Civil War, however.

Two years were to elapse before any new work was undertaken to complete
the armament of Fort Pulaski. Late in the spring of 1849, General Joseph G.
Totten, Chief of Engineers, made an inspection trip to Fort Pulaski, and suggested that the north wharf on the island be reconditioned in order to handle
90.
any ordname which might be landed there. By June 20, 1849, Lieutenant
J. F. Gilmer, ther in command of Fort Pulaski, reported the north wharf to be
fully repaired in compliance with General Totten's suggestion, and in readiness
91.
for the reception of the guns intended for the full armament of the fort.

An ordnance sergeant was then stationed regularly at Fort Pulaski, and often

^{36.} R.S., File No. A. 592, Catober 6, 1846.

^{89.} R.S., File No. 4.653, April 8, 1847. 96. R.S., File No. 6.266, May 25, 1849.

^{91.} R.S., File No. G. 294, June 20, 1849. Meutement Alexander was transferred from Fort Pulsaki in March, 1848. He was succeeded by Lieutement I. I. Stevens; who was in turn succeeded by Lieutement J. P. Gilmer in November, 1848. See R.S., File No. G.250, December 1, 1848.

92.

had the fort in charge during periods when construction was suspended. During the fiscal year 1850-51, ending June 30, 1851 some work was done enlarging 93.

and deeponing the pintle holes of the casemate batteries.

As early as mid-summer 1855, Captain Gilmer proposed the beginning of the construction on the advanced battery for Fort Pulaski. On July 13, 1853, he suggested an additional appropriation for the next two fiscal years in order that this work, which would have provided at least eight or ten more guns, could 94.

be undertaken. Almost three months later, on October 8, he repeated this suggestion, urging a greatly increased appropriation in order that among other things this battery giving an additional number of guns on the main channel of the Savannah river, might be constructed. This project could not immediately be commenced, however. During the fiscal year 1854-55 much of the appropriation had to be expended on repairs at the fort, occasioned by the great hurricane of September 96.

Soon after the opening of the year 1855 the War Department adopted a completely new schedule of ordinance for Fort Pulaski. The Board of Engineers for Fortifications assembled by the order of the Secretary of War early in the year, and decided that the armament of Fort Pulaski, when completed, should consist of

^{92.}The ordnance sergeant stationed at Fort Pulaski during this time was
James H. Williard. See R.S., File Nos. A.665, May 5, 1847; A.729, March 26,
1848; G.506, August 2, 1849; G.562, October 2, 1850.

^{93.} R.S., File Nos. G.405, July 17, 1851; G.416, October 7, 1851.

^{24.} R.S., Vile No. 0.533, July 13, 1853. Gilmer became a captain on July 1, 1853.

^{95.} R.S., File No. G.570, October 8, 1853.

^{96.} R.S., File Nos. G.729, February 16, 1855; G.777, August 7, 1855.

This order was transmitted to Captain Gilmer on April 10, 1855. It provided for a rather drastic revision of the proposed armament for Fort Pulaski, calling for a total of one hundred and thirty-six pieces. While this total was less than the one hundred and forty-eight pieces as proposed by the Engineer Department on March 21, 1842, and the one hundred and fifty-one pieces as suggested by Captain Mansfield on June 20, 1845, this 1855 schedule provided for the installation of a more effective type of gun, the columbiad. It should also be noted that the 1855 schedule did not allow for the arming of the advanced battery. The proposed installation of the twenty-six columbiads on the barbette involved the complete remodeling of twenty-six gun platforms on the terreplein. Platforms also had to be provided for the thirteen seacoast howitzers on barbette.

Vanced battery and the remodeling of the barbette gun platforms be commensed.

Both on August 7, and October 1, 1855, he urged the appropriation of money to build the advanced battery, and on the latter date included in his project of "work yet to be done", the establishment of "gun centres and platforms to suit 96.

the proposed change of armament." On October 10, he transmitted to the

^{97.} Letter, Lieutement J. D. Rurtz, in charge of Engineer Department, Washington, to Captain Gilmer, April 10, 1855, No. 23, Letters to officers of Engineers, pp. 100-101.

R.S., File Nos. G.777, August 7, 1855; G.789, October 1, 1855.

Department his complete estimates on the cost of building both the advanced battery and the columbiad gun platforms, calling for an outlay of over thirty thousand dollars in addition to the regular appropriation for the next two 99.

Years. This work was not commenced during the fiscal year 1255-56, ending June 30, 1856, however, and the only work during this period, in connection with the fort's armament, was the enlarging of the pintle holes for the flank 100.

guns.

Meanwhile a new ordnance sergeant had to be transferred to Fort

Pulsaki, Sergeant Ernest Messer, successor to Sergeant Williard, had contracted

consumption, and an exchange of posts was arranged with Ordnance Sergeant Luke

Walker, at the Ogletherpe Barracks in Savannah. Unfortunately the exchange

did Sergeant Messer very little good. His case was in its last stages and he

161.

died on April 10, 1857 in Savannah.

During the spring of 1857, Captain Gilmer again took up the project of building an advanced battery and remodeling the barbette gun platforms for Fort Pulaski. On March 16, he informed the Department that due to the severity 102.

of the past winter and urgent duties elsewhere, there still existed certain important work at the fort not yet "entered upon." In this eategory he included the building of the advanced battery and the remodeling of the barbette gun plat105.

forms. This work he planned to begin as soon as possible. Some two months later, on May 23, he requested the Department to furnish him the plans and instructions necessary to construct the columbiad platforms in order that he might

^{99.} R.S. . File No. 769, October 10, 1855.

^{100.} R.S., File Nos. G.855, April 18, 1856; G.872, July 15, 1856; G.887,

^{101.} R.S., File Nos. G.865, June 14, 1856; G.917, January 1, 1857; G.970,

April 25, 1857.

Captain Gilmer was then also in charge of the fortifications at Charleston, South Carolina.

^{103.} R.S., File No. G.946, March 16, 1857.

104.

change was proposed in 1855, the forwarding of these plans, and now agreed to send 105.

them within a few days. However, no actual construction was commanded on the new barbette platforms during the remainder of the year 1857, or in 1858 up to September 30. Apparently the project to build an advanced battery at port Pulaski 106.

Was abandened before the end of the year 1857.

Fort Pulaski received a new commanding officer in the mid-summer of 1858, and he immediately initiated preparations to begin the construction of the new barbette gun platforms. On July 13, 1858, Captain J. F. Gilmer was relieved 107.

of the Fort Pulaski command by Lieutenant W. H. C. Whiting. About a month later, on August 17, Lieutenant Whiting reported to the Department that the materials for the new barbette gun platforms of the northeast front had been purchased, and it was his plan to complete the platforms for this front during the ensuing winter, 108.

and the rest, those for the southeast front, during the next year. In the same letter he made the significant statement that

"With the exception of the barbette platforms of the N.Z. and S.Z. Fronts, which require a change to suit the 8" eclumbiads to be mounted, Fort Pulaski is ready to receive its garrison, armament and Stores."

Work on thirteen of the new columbiad platforms commenced as soon as the year 1859 opened. From early in Jamuary through the Slat of May, 1859, carpenters were preparing concrete form boxes for the concrete foundations of the new platforms, and the masons were kying the concrete foundations, and cutting and fitting 109.

the traverse stones of the platforms. With the suspension of construction at

^{104.} R.S., File No. G. 988, May 25, 1857.

^{108.} R.S., File No. G.999, Tune 5, 1857.

^{106.} R.S., File Nos. G.1076, October 9, 1857; G.1255, September 30, 1858.

^{107.} R.S., File No. W. 2188, July 15, 1858. 108. R.S., File No. W. 2174, August 17, 1858.

R.S., File Nos. W. 2248, Feb. 16, 1859; W. 2257, March 8, 1859; W. 2277, April 19, 1859; W. 2297, May 16, 1859; W. 2308, June 6, 1859.

Fort Pulaski for the fiscal year 1858-59 occurring on May 31, only thirteen 110.

of the proposed twenty-six barbette gun platforms were completed. In summing up the work accomplished during the fiscal year 1858-59, Captain Whiting on July 26, informed the Department that most of the year's construction work had been devoted to the "changing of the gun platforms of certain of the barbette guns to suit the proposed changes in the armament of the fort." He reported the completion of thirteen new platforms for the barbette columbiads, six being located on the northeast front, six on the southeast front, and one at the east salient. Where these new platforms were located, the parapet walls had been "adjusted to suit them." However, he observed that there yet remained to be changed the platforms for thirteen additional columbiads, and also for thirteen seacoast howitzers and barbette. Captain Whiting concluded his communication of July 26, by stating that

"When this (the completion of the new barbette gun platforms) is done the work will be completed except the clearing of the ditches." 112.

Unfortunately Whiting's proposal of July 26, 1859 to build twenty-six new barbette gun platforms during the fiscal year 1859-60, in addition to the thirteen constructed in 1859, was destined never to be carried out. No funds were appropriated for the Fort Pulaski work in 1859-60, and early in August, 1860, we find Whiting pleading with the Department for an appropriation adequate to remodel the additional twenty-six barbette gun platforms during the next two years. On August 10, he transmitted his annual report on work accomplished

^{110.} R.S., File No. W.2297, May 3, 1859; W.2308, June 6, 1859.

^{111.} R.S., File Nes. G.1255, September 30, 1858; W.2174, August 17, 1858; W.2523, July 26, 1859.

^{112.} R.S., File No. W.2323, July 26, 1859. Whiting became a captain on December 13, 1858.

during the fiscal year ending June 30, 1860. During the year only maintenance work had been carried on at the fort due to the fact that no funds had been appropriated. The most significant statement in the report was to the effect that the completion of the fort and its occupation by a garrison was still contingent mainly on the construction of the twenty-six additional barbette gum platforms. Again he reiterated his apparently unheaded and oft repeated statement that

"With the exception of the barbette platforms, mentioned, this fort is ready to receive its guns, munitions and garrison, wills."

This opportunity to complete the preparations to arm the fort fully, and to provide for its early occupation by a garrison of United States troops, was to be neglected during the subsequent months until it was too late, and the chance was lost. During the remaining months of 1860 nothing further was accomplished on the proposed barbette platforms. And then, about noon on January 5, 1861, Fort Pulaski was seized by several detachments of the Georgia State Troops under the general command of Colonel A. R. Lawton of Savannah, and Fort Pulaski passed from the control of the Federal Government until recaptured during the siege of April 10 and 11, 1862.

^{115.} R.S., File No. W.2488, August 10, 1860; W.2489, August 15, 1860.
114. R.S., File Nos. W.2499, Oct. 7, 1860; W.2586, January 9, 1861.
115. Letter, Colonel A. R. Lawton, to Governor Joseph S. Brown (Georgia),

Letter, Colonel A. R. Lawton, to Governor Joseph E. Brown (Georgia), Jamuary 3, 1861, cited in Jones, Charles C. Jr. Historical Sketch of the Chatham artillery during the Confederate Struggle for Independence. Albany, N.Y. 1867. p. 15; ef., letter, Captain W. H. C. Whiting, to General J. G. Tetten, Chief of Engineers, January 7, 1861, R.S., File No. W. 1888, January 7, 1861; ef., Official Report to the United States Engineer Department of the Siege and Reduction of Fort Pulaski. . . By Brig.-Gen. Q. A. Gillmore, U.S. Vels., New York, 1862, pp. 32 - 36.

The condition of Fort Pulaski, of its armament, and of its ordnance supplies, was rather chaotic at the time of its occupation in January, 1861. The account given by Jones of the scene that greeted the Georgia forces upon their arrival at Fort Pulaski, depicts it to have been one of utmost confusion. There was no funiture in the quarters. No ordnance, quartermaster, or commissary stores were on hand. The magazines contained only a few hundred pounds of an inferior grade of powder. The supply of solid shot was limited. "and there was not a shell ready for action." The complete and only armement of the fort as then mounted "consisted of only twenty thirty-two-pounder guns, the carriages of which were, in most instances, in bad condition and unserviceable." The wooden nortions of the carriages had been "sadly invaded" by "dry rot." Implements with which to handle the guns were scarce. The barbette platform did not then mount "a single gun." This condition of the armament of Fort Pulaski at the time of its seizure was confirmed by Charles H. Clastead, who assumed the command of the fort later in the year 1861, and who surrendered it at the time of its reduction by Federal forces in April, 1862. As adjutant of the Georgia force 118. under Colonel Lawton, which took possession of the fort in January, 1861, Majoria later Colonel Dimstead was then naturally conversant with the armament situation at Fort Tulaski. His account of the condition of the fort and its armement, as it then existed, shows that

^{116.}

Jones, op. cit.,p.23.

^{117.}

Olmstead, Charles H. "Fort Fulaski." The Georgia Historical Quarterly, Vol. 1, 0.2,pp.104-105. Henceforth cited as Olmstead, Pulaski.
118.

Olmstead, Charles B. Reminiscences.pp. 170-172(285 page unpublished ms volume in possession of Miss Florence Olmstead, Savannah, Ga.) Major Olmstead became colonel of the First Volunteers Georgia Infantry on December 25,1861. See letter, Major Olmstead, Fort Palaski, to Florence Olmstead (his wife), Dec. 26, 1861 (ms.letter in possession of Miss Florence Olmstead, Savannah); cf., Jones, C.E. Georgia in the Sar 1861-1865, Sugusta, Ga., 1909, p. 35.

"There was one tier of casemates opening on to the parade by large double doors, and platforms had been arranged for another tier of guns on the ramparts. In the easemates were 20 long naval 32 pdrs. mounted on iron carriages, but there was no other armament." 119.

Thus, the twenty guns as mounted in the casemates of Fort Pulaski in 1840, were still there in 1861, and then constituted the sole armament of the fortification. Despite the extensive schedules of armement proposed for Fort Pulaski in 1828 and 1831, and their subsequent diverse modifications and additions in 1835, 1842, 1845 and 1855, the only ordinance ever to be actually mounted at Fort Pulaski prior to the Civil War was these twenty long thirty-two pounder casemate guns. In conclusion, several succinct facts stand out. First, Mansfield, who sided in the revision of the fort's plans in 1831, helped to design a fortification calling for an armament which would probably have been partially ineffective if mounted. That he must have soon realized this situation is shown by his drastic ordnance recommendations of March 19, 1835. Second, it is rather inexplicable why the Engineer Department and Mansfield complacently continued to construct the fort by such plans in the face of such a condition. Perhaps the realization of the futility of arming a fort which could mount only partially effective ordname is one explanation for the Department's reluctance to install the complete armament, and for its desperate efforts to provide for a new type of armament as late as 1855-60.

Olmstead Felaski... p. 100. The carriages for the 20 long 32 pounder guns were iron, but the chassis were of wood, and when Jones refers to the "dry rot" in the carriages, he apparently means the condition of the chassis. See also R.S., File No. M.523, May 6, 1840. Types of case—mate carriages and chassis are explained in The Ordnance Manual for the Officers of the United States Army. Richmond, Va. 1861 26., Edition. pp. 49, 73, 86.

APPENDIX.

TABLE I

Complete armament proposed for Fort Pulaski by the United States Engineer Department, January 17, 1828.

	1	•					2	
First and Secon	d Tier,	North	Front,			16	guns,	Casemate.
* * *	* ;	South	* *	• • •	• .	10	۳,	•
	# 5	Northe	nat Fro	nt, .		20		
	n 	Southe	ast	" , .		20	, w ,	•
Tier, Ang	is of th	· N.E.	and S.S	. Fro	nts,	1	gun,	#
Second Tier, On	e in eac	h Angle	, a tot	al of		3	guns,	
Terreplein, Two	guns in	DECD A	usre,	• • •	. • •	5	** *	Barbette.
	theast F							
* 1000	theast P	rone, .	* * * *	• • •		TO	* 1	_
n con	th Front	* * * *		• • •		- D	" "	
Corge Front								
Ana0- 1-471.		• • • •	* * *	• • •	* * *.	v		•
		Domi-L	168			. 15.		
				•				
Terreplein, .						3	18	•
	Ad	vanced)	Sattery					4.5%
		em (j. j.						
Eight mortare a	nd eight	howitze	ra, .			16	**	M .
			Total .		•	145	Pieces	•

The fort as then planned consisted of two tiers and a terreplein.

The second tier was eliminated when the plans were revised in 1851.

^{2.} Type of guns not specified in this schedule.

TABLE II.

Complete armament proposed for Fort Pulaski by the United States Engineer 1.
Department, September 30, 1831.

Terreplein,	1 2 12 1 2	gun "	" and a second of and a second of and a second of a se	gle, sch der four : gle, si-bas	ni-	ed - sec	int	ic	n,		•	5 4 48 48 5 4	carronade guns, Ba	# 6 W
			Demi-	- Lune										
Terreplein,		guns on e												44 : 11
		Ad	vanced	Batter	y			17						
	•		* *			•		•	•	*	•	8	guna, mortara, howitzera	190
				Total		•			•	•	. 1	72	Pieces.	

^{1.} This schedule superseded the original one proposed in 1828.

^{2.} Type of guns not specified in this schedule.

TABLE III.

Revised armament recommended by Lieutenant Joseph K. F. Mansfield, for l. Fort Pulaski, March 19, 1885.

			carronades, Cases	nate
Terreplein	Demi-Lune.] 3	field guns, 3. Bar	ho t ta
	anced Battery.			
Terreplein, .	Total		mortars, Barbette	

^{1.} This recommendation was not adopted by the Engineer Department.

^{2.} Type of guns not specified in this schedule.

^{5.} The number of field guns not definitely specified, but this number appears to be a logical approximation.

TABLE IV.

Guns mounted at Fort Pulaski in April and May, 1840.

Fort.

South Front		•		٠	•	٠,				3.	32	pdr.,	8	uns,	Casem	a to
Southeast F.														11	4 jul 10	
Bast Front,		*:	*	•						7,	17	* ,		17	17	
North Front	,			•	٠.			٠	•	7,	**	H . 5		# ,	#	
Northeast A															**	

Total 20 Pieces.

TABLE V.

Revised armament proposed for Fort Pulaski by the United States
1.
Engineer Department, March 21, 1842.

Fort.

									•	-		-								
First Ties																		enate	i	
H H	*		•	*	*	*	*		•	*		or,		- 		· •				
# #	,	•	٠	٠	•	•	•	•	•	•		٠.,	GA.	From	ides,			10		
Terreplain	n,	•	٠	٠	•	٠	•	*	•			40,	24	par.	. gu	ns,	Bal	be t te	Þ	
. 10			•	٠		*			•			2,	18	#		舜		n		
	•	. •							•		•	12,	8	in.,	how	itz	ers,	15		
																			, B	arbette
								D	om	1-	Lu	D# .								
Terreplei	u,	•					•					14,	32	pdr.	, gu	ns,	Bal	bot to		
鲜	•	•		•			•		*			13,	24	19	•	19		#		
•		•	*	•	٠	, *	•	•	•		•	2,	60	ehore	19,			**		
						A	d v	an	CO.	đ	Ba	ttery	•							
Terreplei	n.					•	•					1.	13	in.	Mort	ar.	Bar	be t te	I	
												7,								
	1											*****	·····							

Total . . . 148 Pieces.

^{1.} This schedule is a revision of the one made in 1851.

^{2.} These 20 guns were mounted in 1840, see Table IV.

TABLE VI.

Revised armament recommended for Fort Pulaski by Captain Joseph 1.

K. F. Mansfield, June 20, 1845.

Port. First Tier, mounted, 2. 20, 32 pdr., gume, Casemate. 4, carronades, Terreplein, 40, 84 pdr., guns, Barbette. 4, 18 " , " Demi-Lune. Terreplain, 14, 32 per. , guns , 14, 24 pdr., ", 2, coshorns, Advanced Battery. Terreplein, 1, 13 in., Mortar. " 7, 10 in., ", Total ... 151 Pieces.

^{1.} The Engineer Department did not adopt this redommendation.

^{2.} These 20 guns were mounted in 1840, see Table IV.

TABLE VII.

Revised armament proposed by the United States Engineer Department 1.
for Fort Pulaski, April 10, 1855.

First Tier, South Front		-				pdr., guns,	Gasemate
	-					" howitzer	s, #
						in.Seacoast	
						" Columbiad	
		-				" Sea. bowl	E., .
					9, 24	pdr., guns,	*
	Corge	* ,			4, 1		11
			Demi	-Lune.			
						pdr., gune,	*************************************
		To	tal .	****	 L36 Pie	.com. 2.	

^{1.} This schedule never executed. Note that for first time the use of the columbiad is proposed.

^{2.} Note that this schedule did not provide for the arming of the advanced battery.

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