

**Primary Battery File**

**National Archives, Washington D.C.**

**Record Group 77**

**Correspondence of the Chief of Engineers**

**Entry 103**

**File, Fort, Battery:**

**39091**

**Ft. Monroe**

**Btty Montgomery**

✓

ENGINEER OFFICE, U. S. ARMY,  
166 GRANBY STREET,

Norfolk, Va., July 22, 1901.

Brig. Gen. George L. Gillespie,  
Chief of Engineers, U. S. Army,  
Washington, D. C.

General:

In pursuance with instructions contained in Department letter of April 23, 1901, 39091, I have the honor to submit the accompanying estimates, and to transmit, in a separate package, by to-day's mail, plans for emplacements for two 6-inch R. F. guns at Fort Monroe, Va.

The approved project provides for a battery of two 6-inch R. F. guns between the 12-inch battery and 10-inch battery (Battery B). The guns of this battery are intended not only to have a front fire, but also to be capable of firing to the rear, if necessary.

The site is flat and low, and subject to overflow at very high tides. Some filling in is, therefore, necessary to place the floors of magazines above storm-level.

Two plans are submitted: The first (No. 1) is a modification of the Type plan, the estimated cost of which is \$24,865.94; or, with storage battery and accessories to be charged from Battery B, \$26,097.94. The second (No. 2) introduces several changes in the design of rooms and ammunition service, etc. A lookout station between the guns is also provided.

The shot is delivered at the level of the loading platform,

which is believed to be a desirable feature.

I am disposed to think that this second plan will be the best suited to the locality, and, therefore, recommend it for adoption.

Its estimated cost is \$24,016.08, or, with the storage batteries as in first estimate, \$25,248.08, a slightly less sum than in the first case.

The work upon this battery can proceed at once, and it is believed that the necessity for a R. F. battery at this place is more urgent than in the vicinity of the new 12-inch, just commenced.

By Department letter of November 9, 1900, 37221, \$30,000 was allotted, provisionally, for the battery referred to herein.

Very respectfully,

Your obedient servant,

Major, Corps of Engineers

2 inclosures accomp.

tracks in san. pkgs.

39091

DEPARTMENT OF AGRICULTURE,  
WASHINGTON, D. C.

66403  
65  
THE BOARD OF ENGINEERS.  
QUINN  
RECEIVED & APPROVED  
1901

[illegible][illegible]

1st. Indorsement.  
U. S. Engineer Office,  
Baltimore, Md.

Aug. 12, 1901  
submitted for

Respectfully submitted for the  
Chief of Engineers, U.S.A.  
There are some features of  
each battery that I do not like,  
but on the whole I concur with  
the district engineer that plan  
No. 2 is the better, and I recom-  
mend it for approval.

As the site is low and may have to be filled in to some extent, special pains should be taken to see that the foundation for the battery is made secure. Delay in forwarding these papers has been caused in getting the tracing together from the district engineer illustrating the arc of fire, and also by other official duties engaging my attention.

new  
101., acc. of Engineers, U.S.A.  
Div. Eng. S.E. Div.  
Inc. add'l in sep. roll-  
2d endorsement.

Office Chief of Engineers,  
U. S. ARMY.

August 14, 1901.

Respectfully referred to The Board of Engineers for Consideration and recommendation.

Information is requested whether the modified type proposed by Major Quinn is, in the opinion of the Board, free from inherent defects of construction or design,

and whether it possesses any advantages over the type drawing for the emplacements in this particular locality.

Chackings

### Acting Chief of Engineers.

Acting Chief of B  
4 accomp.  
Incls. 3 &  
Incls. 5-8  
In sep. roll.  
2  
39091  
1001

The Board of Engineers,  
Army Building,  
New York City, August 28, 1901.

Respectfully returned to the  
Chief of Engineers.

The Board has carefully examined the plans submitted by Major Quinn, and concurs in the opinion expressed by him and endorsed by the Division Engineer that the modified plan numbered 2 (correctly numbered in red ink on tracing) is the better of the two, and recommends that it be approved. There are not apparent any defects or difficulties in the design which may not be met by proper precautions in construction, while the arrangements for ammunition supply and the spacing of the guns are regarded by the Board as superior to those given by the approved type.

For the Board:  
Jas. C. Keller

Colonel, Corps of Engineers,  
President of the Board.

5 SEND OFFICE CHIEF OF ENGAS. SEP 2 11 501  
Inclos. 6-7 accompg. 8-11 14 sep, pk

*ath. minorcensis.*

Office Chief of Engineers

U. S. AIR FORCE

September 4, 1901.  
Respectfully returned to Major  
Quinn, approved as recommended by  
the Division Engineer and The  
Board of Engineers.

The sum of \$24,000 of the pro-  
visional allotment made November  
9, 1900, from the appropriation of  
"Gun and Mortar Batteries", for  
construction of gun and mortar  
batteries, Act of May 25, 1900,  
is hereby made available for ex-  
penditure in the construction of  
this battery, and the balance of  
this allotment, \$6,000, is with-  
drawn and restored to the appro-  
priation from which allotted.

Funds can not be spared at  
present for the installation of  
the storage battery.

*W. D. Duck*  
Acting Chief of Engineers

Incls. 3 & 4 accomps.  
Incls. 5-8 in sep. roll.

*Corps of Engineers,*

*Division Engineer, Southeast Division*



5th. Indorsement.  
U.S. Engineer Office,  
Baltimore, Md.

Sept. 6, 1901.

Respectfully transmitted to  
Maj. James B. Quinn, Corps of  
Engineers, inviting attention  
to the foregoing indorsements.

*John C. Quinn*  
Col. Corps of Engineers, U.S. Army  
Div. Eng. S. E. Div. S. E.  
Recd. E. O. Norfolk Va. Sept. 7, 1901

6th indorsement of the  
Engineer Office, U.S. Army  
Norfolk, Va. Sept. 10, 1901.

Respectfully returned to the  
Chief of Engineers, U.S. Army, as  
directed in the 4th indorsement  
hereon.

*John C. Quinn*  
Major, Corps of Engineers,  
U.S. Army.

1582 F.M.  
4 inclos. accompanying  
4 inclos. in sep. pkg.

OFFICE CHIEF OF ENGINEERS SEP 11 1901  
Inclos. 4 & 5  
Inclos. 2-3 in sep. pkg.

RECORDED AT THE NATIONAL ARCHIVES  
RECEIVED  
SEP 11 1901  
U.S. ARMY  
ENGINEER OFFICE  
BALTIMORE, MD.

ESTIMATE FOR CONSTRUCTION OF EMPLACEMENTS FOR TWO 6-INCH RAPID-FIRE GUNSAT FORT MONROE, VIRGINIA.

(Typical Plan)

No. 1

Filling up site from reference 6' to 9', with about 1,500 cubic yards of sand, @ 50¢,-----	\$ 750.00
Setting up engines, derricks and concrete mixer,-----	500.00
Mixing, placing and ramming in position, 1,503 cubic yards of Portland concrete, @ \$7.50,-----	11,272.50
5,528 square feet of granolithic, @ 35¢,-----	1,934.80
21,000 pounds of steel I and channel beams, @ 3¢,-----	630.00
Handling, fitting and setting beams,-----	200.00
7,177 pounds of iron for gates, doors, etc., @ 5¢,-----	358.85
28,000 feet, B. M., Y. P. lumber for sheathing, bracing, etc., @ \$16 per M feet, B. M.,-----	448.00
Labor putting up sheathing, bracing, etc.,-----	650.00
2,500 square feet of partition tile, @ 10¢,-----	250.00
Handling and placing partition tile,-----	100.00
3,300 square feet of water-proof paper, @ 1-1/4¢,-----	41.25
Placing water-proof paper in position,-----	50.00
20 barrels of asphalt, @ \$6,-----	120.00
3 barrels of coal-tar, @ \$5,-----	15.00
Labor placing asphalt and tar,-----	30.00
50 gallons P & B Ruberine paint, @ \$1.40,-----	70.00
200 feet C. I. drain pipe and fittings,-----	45.00
200 feet of 1-1/4-inch galv. iron pipe with fittings,-----	25.00
10 C. I. frames and covers for catch-basins, @ \$3,-----	30.00
Building catch-basins and cutting drains,-----	150.00
200 feet of trolley track and trolleys, @ 2-1/4¢,-----	450.00
4 hoist blocks, @ \$15,-----	60.00
2 chain ammunition hoists, complete, with table, etc., @ \$500,-----	1,000.00
25 hold-down plates for railing, @ 50¢,-----	12.50
Hardware, nails, hinges, locks, etc.,-----	75.00
Taking down sheathing, dressing walls, etc.,-----	250.00
3 stone lintels, 9" X 12" X 6'.8" long, @ \$8,-----	24.00
2 stone lintels, 9" X 12" X 6'.10" long, @ \$8.75,-----	17.50
2 stone lintels, 9" X 12" X 5'.2" long, @ \$7.75,-----	15.50
2,650 cubic yards of sand in position, @ 80¢,-----	2,120.00
120 cubic yards of soil in position, @ \$1,-----	120.00
120 cubic yards of clay in position, @ \$1,-----	120.00
721 square yards of sod in position, @ 50¢,-----	360.50
Electric wiring, lamps, etc.,-----	200.00
Speaking tubes, mouth-pieces, etc.,-----	50.00
Water supply,-----	60.00
	<u>22,605.40</u>
Contingencies 10 per centum,-----	<u>2,260.54</u>

Engineer Office, U. S. Army,  
Norfolk, Va., July 22, 1901.

Total,-----\$24,865.94

Official:

*James N. Quinn*  
Major, Corps of Engineers,  
U. S. Army.

## ESTIMATE FOR CONSTRUCTION OF EMPLACEMENTS FOR TWO 6-INCH RAPID-FIRE GUNS

AT FORT MONROE, VIRGINIA.

No. 2

(Modified Plan)

Filling up site from reference 6' to 9', with about 1,800 cubic yards of sand, @ 50¢ per cubic yard,-----	\$ 900.00
Setting up engines, derricks and concrete mixer,-----	500.00
Mixing, placing and ramming in position, 1,340 cubic yards of Portland concrete, @ \$7.50 per cubic yard,-----	10,050.00
4,500 square feet of granolithic, @ 35¢,-----	1,575.00
26,000 pounds of steel I and channel beams, @ 3¢,-----	786.00
Handling, fitting and setting beams,-----	200.00
5,800 pounds of iron for gates, doors, etc., @ 5¢,-----	290.00
29,300 feet, B. M., Y. P. lumber for sheathing, bracing, etc., @ \$16 per M feet, B. M.,-----	468.80
Labor putting up sheathing, bracing, etc.,-----	650.00
1,460 square feet of partition tile, @ 10¢,-----	146.00
Handling and placing partition tile,-----	90.00
2,800 square feet of water-proof paper, @ 1-1/4¢,-----	35.00
Placing water-proof paper in position,-----	45.00
20 barrels of asphalt, @ \$6.00,-----	120.00
3 barrels of coal-tar, @ \$5.00,-----	15.00
Labor placing asphalt and tar,-----	30.00
50 gallons P & B ruberine paint, @ \$1.40,-----	70.00
200 feet C. I. drain pipe and fittings,-----	45.00
200 feet of 1-1/4-inch galv. iron pipe with fittings,-----	25.00
8 C. I. frames and covers for catch-basins, @ \$3.00,-----	24.00
Building catch-basins and cutting drains,-----	150.00
100 feet of trolley track and trolleys, @ 2-1/4¢,-----	225.00
4 hoist blocks, @ \$15.00,-----	60.00
2 chain ammunition hoists, complete, with tables, etc., @ \$500.00,-----	1,000.00
25 hold-down plates for railing, @ 50¢,-----	12.50
Hardware, nails, locks, hinges, etc.,-----	75.00
Taking down sheathing, dressing walls, etc.,-----	250.00
3 stone lintels, 9" X 12" X 6' .8" long, @ \$8,-----	24.00
2 stone lintels, 9" X 12" X 6' .10" long, @ \$8.75,-----	17.50
3,600 cubic yards of sand in position, @ 80¢,-----	2,880.00
162 cubic yards of clay in position, @ \$1.00,-----	162.00
162 cubic yards of soil in position, @ \$1.00,-----	162.00
880 square yards of sod in position, @ 50¢,-----	440.00
Electric wiring, lamps, etc.,-----	200.00
Speaking tubes, mouth-pieces, etc.,-----	50.00
Water supply,-----	60.00

Contingencies 10 per centum,----- 21,832.80

2,183.28

Engineer Office, U. S. Army,  
Norfolk, Va., July 22, 1901.

Total,-----\$24,016.08

Official:

*James D. Quinn*

Major, Corps of Engineers,

ENGINEER OFFICE, U. S. ARMY,  
ROOM 2, CUSTOM HOUSE.

Norfolk, Va., October 7, 1903.

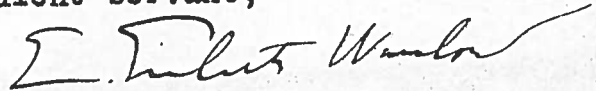
Brig. Gen. G. L. Gillespie,  
Chief of Engineers, U. S. Army,  
Washington, D. C.

General:

I have the honor to inform you that the emplacements in Battery Montgomery, Fort Monroe, Va., for two 6-inch R. F. guns, constructed under allotment of \$24,000, made by the 4th indorsement of your office dated September 4, 1901 (39091), are ready to receive their armament. These emplacements have been ready for some little time, but as I can find no record of a former report of this fact having been made I now send it.

Very respectfully,

Your obedient servant,



Captain, Corps of Engineers,

U. S. Army.

1582  
4 F. M.



1582 3.37 39091  
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OFFICE OF CHIEF OF ENGINEERS  
OFFICE CHIEF OF ORDNANCE.

NO 39091  
130 9  
36 22 653  
130 587  
WAR DEPARTMENT  
WAR DEPARTMENT.

Norfolk, Oct. 7, 1903.

WINSLOW,

CAPT. E. E.

States that the emplacements in Battery Montgomery, Fort Monroe, Va., for two 6-inch R.F. Guns, constructed under allotment of Sept. 4, 1901, are ready to receive their armament.

*File*  
*a*

RECD. BACK OFFICE CHIEF OF ENGRS. OCT 21 1903

RECD. BACK OFFICE CHIEF OF ENGRS. OCT 14 1903

Received back, NORFOLK VA. OCT 19 1903  
Eng'g, U. S. Army, 22 653  
A

1st indorsement.

WAR DEPARTMENT,  
OFFICE OF THE CHIEF OF ENGINEERS,  
WASHINGTON.

October 12, 1903.

1. Respectfully referred to the Chief of Ordnance, U.S. Army, for his information, and with request for the probable date at which the carriages will be delivered to Captain Winslow.

2. The return of this paper is requested.

39091  
9

*A. A. Shuey*  
Brig. Gen., Chief of Engineers,  
U. S. Army.

22653-587.

M1.

2nd Endorsement.

OFFICE OF THE CHIEF OF ORDNANCE,  
Washington, October 13, 1903.

1. Respectfully returned to the Chief of Engineers, U.S. Army, with the information that the probable date of completion of the within mentioned carriages is December 1, 1903.

*William Rogers*  
Brig. Gen., Chief of Ordnance.

RECD. OFFICE CHIEF OF ENGRS. OCT 14 1903

3d indorsement.

WAR DEPARTMENT,  
OFFICE OF THE CHIEF OF ENGINEERS,  
WASHINGTON.

October 17, 1903.

1. Respectfully returned to Captain Winslow, inviting attention to the 2d indorsement.  
2. To be returned.

By command of Brig. Gen. Gillespie:

39091  
9

*Francis V. Clark*  
Major, Corps of Engineers.

4th indorsement.  
Engineer Office, U.S. Army,  
Norfolk, Va., Oct. 20, 1903.

Respectfully returned to the Chief of Engineers, U.S. Army, as directed in the preceding indorsement.

*E. Robert Munton*  
Captain, Corps of Engineers,  
U.S. Army.  
1582 F. M.  
36 RECD. OFFICE CHIEF OF ENGRS. OCT 21 1903