

**Primary Battery File**

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

**Record Group 77**

**Correspondence of the Chief of Engineers**

**Entry 96**

**File, Fort, Battery:**

1891: 5558

Ft. Warren

Btty Bartlett

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Subject: Emplacements for 10" guns, Ravelin, Fort Warren, Ma.

LT. COL. S. M. MANSFIELD,  
Corps of Engineers, U. S. A.

UNITED STATES ENGINEER OFFICE,

P. O. BOX 5346, ROOM 124 P. O. BUILDING,

BOSTON, MASS.

December 2, 1891

Brig. Gen. Thomas L. Casey,  
Chief of Engineers, U. S. A.,  
Washington, D. C.,

General:

In accordance with instructions of Mar. 5, 1891, (Dept. Incl. 1 of 1415-1891), I have the honor to submit a working drawing for two emplacements for 10-inch guns in the ravelin at Fort Warren, and an estimate of the cost of their construction.

The drawing shows all that is necessary for the four emplacements intended for this battery, and of the four, I respectfully recommend that the two most southern be first built.

The cost of their construction is estimated as follows:

11303	cub. yds of concrete	@ \$6 <sup>50</sup>	\$73469.50
21947	"	earth excavation @ 65 <sup>c</sup>	14265.55
6925	"	" embankment	



included in cost of excavation.		
1560 c. yds old masonry to be removed	@ \$2.50	3900
5 " stone masonry	@ \$25	125
1200 s. yds sodding	@ \$1	1200
630 R. ft drains	@ \$1	630
4 inside doors	@ \$75	300
2 outside doors	@ \$100	200
2 " " "	@ \$50	100
2 " " "	@ \$30	60
2 Baricades (upper galleries)	@ \$25	50
6 sets lamp recess fittings	@ \$40	240
2 lifts		
		<u>2000.0</u>
Contingencies 10%		96540.0
		<u>9654.0</u>
Total		\$ 106194.0

From the nature of this work and the fact that the Government owns the necessary working plant, it can be most economically and advantageously done by hired labor, all necessary material being purchased by contract after public advertisement. This method of expenditure of the funds available is therefore respectfully

ENGINEER  
1891

172 RECEIVED  
1891

W. H. C. S. M.

777

for 2 emplacements for 10 guns  
on machine at Fort Mifflin &  
estimated cost of construction at  
\$ 106194.05

and that work be done by hired  
labor, & purchase of material by  
contract after a bid, for  
reason stated.

1 Chas. G. D. (Tracing) Dec. 4/91.

REC'D ENGR. DEPT. DEC 17 1891.

1 in Map File, Br. 22, Sheet 52.

1st Indorsement.

Office, Chief of Engineers,  
Dec. 4, 1891.

Respectfully referred to  
the Board of Engineers, for  
recommend.

Wm. W. C. S. M.  
Brig. Gen., Chief of Engineers.

5558-1891.  
Dec. 1 (Tracing) in separate roll.

2d Indorsement

The Board of Engineers,  
Army Building,  
New York, Dec. 9, 1891.

Respectfully returned to the  
Chief of Engineers.  
At a meeting held to-day,  
this project was considered; it  
meets the approval of the Board  
except that the exterior entrance  
to the magazine passage should be  
direct and not through the maga-  
zine, and that the ramp leading  
to the gun platform should be  
shifted to conform to this condi-  
tion.  
It is understood that until  
the type of disappearing carriage

is definitely adopted, the ma-  
sonry construction in front of  
and within 20 feet of the gun  
will not be recommended.

For the Board:  
Wm. W. C. S. M.  
Colonel of Engineers,  
Bvt. Brig. Gen., U.S.A.,  
President of the Board.

REC'D ENGR. DEPT. DEC 17 1891.

3rd Indorsement.  
Office of Chief of Engineers,  
Dec. 1, 1891.

Reduction returned to your  
Colonel Mifflin, consulting in  
the views of the Board of Engineers  
as submitted in the 2d indorsement.  
For the execution of the project  
as authorized, there is allotted  
from the appropriation for En-  
gineer's Station \$13,900.73  
Ref. of Aug. 18/89, 4423332  
Act of February 24/89, 4423332  
106194.05.

The authorized method of ex-  
penditure of the funds allotted

is referred.  
The tracing will be modified  
to meet the decision stated in  
2d indorsement, and then returned  
to this Office with this note.  
By command of Brig. Gen. Cady:

John G. D. Strickland  
Captain, Corps of Engineers.  
(5558-1891.)

W. S. Engineer Office  
Boston, Mass., Dec 16, 1891.  
Respectfully returned to the  
Chief of Engineers, U. S. Army,  
in accordance with 3d in-  
dorsement.  
Wm. W. C. S. M.  
Supt. C. E. of Engineers  
46777-1891

REC'D ENGR. DEPT. DEC 17 1891.

Dec. 14, 1891

Brig. Gen. Thomas S. Casey,  
Chief of Engineers, U.S.A.,  
Washington, D.C.,

General:

I have the honor to submit the following  
as the probable monthly expenditures under the  
allotment of Dec. 12, 1891, of \$106194<sup>05</sup>, for  
the construction of two emplacements for  
10-inch guns in the ravelin at Fort  
Warren, Mass.:

Jan'y. 1892	\$519.05
Feb. "	500.00
Mar. "	1500.00
April "	2500.00
May "	8000.00
June "	10000.00
July "	10000.00
Augst. "	10000.00
Sept. "	10000.00
Oct. "	10000.00
	<hr/> 63019.05

November	1892	5000.00
December	"	2500.00
January	1893	1500.00
February	"	1000.00
March	"	3000.00
April	"	10000.00
May	"	10000.00
June	"	10000.00

Total 106194.05

very respectfully,  
your obedt. servt.,

*M. M. M. M. M.*  
Lieut. Col. of Engineers



*John. Mass.  
Dec 14. 1891.*

*Worcester  
Dec. 14. 1891.*

*Submits statement  
of probable monthly  
expenditures under  
allotment of Dec 1791  
of 106. 194. 00 for first  
Marion.*

*1700/15*