

Fort Sumter  
Fort Sumter National Monument  
**Historic Structure Report**

Volume III  
APPENDICES G-H



2015

for

Cultural Resources, Partnerships, and Science Division  
Southeast Region, National Park Service

by

JOSEPH K. OPPERMANN – ARCHITECT, P.A.

539 N. Trade Street Winston-Salem, NC 27101

[www.jkoa.net](http://www.jkoa.net) 336/721-1711

---

**Fort Sumter**  
**Fort Sumter National Monument**

**Historic Structure Report**

**Volume III**  
**APPENDICES G-H**

2015

for

**Cultural Resources, Partnerships, and Science Division**  
**Southeast Region, National Park Service**

by

**JOSEPH K. OPPERMANN – ARCHITECT, P.A.**

539 N. Trade Street Winston-Salem, NC 27101

[www.jkoa.net](http://www.jkoa.net) 336/721-1711



---

# Table of Contents

## Volume I:

Project Team.....	iii
Executive Summary.....	v
Administrative Data.....	xiii

## Part I - Developmental History

A. Historical Background and Context.....	1
Colonial Defenses of Charleston Harbor	
America's First System of Coastal Defenses, 1794-1799	
The Second System of Coastal Defenses, 1807-1810	
Third System, 1816-1867	
Fort Sumter, 1828-1861	
The Civil War and Fort Sumter, 1861-1865	
Modernizing the Defenses of Charleston, 1865-1876	
The Endicott System, 1886-1910	
Coastal Defenses During World War II	
Post-War Developments, 1945-1955	
Mission 66 and Later Plans	
B. Chronology of Development and Use.....	31
Building Fort Sumter, 1829-1860	
Construction	
Major Robert Anderson and the Confederate Bombardment, 1860-1861	
Confederates Hold Fort Sumter, 1861-1865	
The Union Returns to the Fort	
Conditions After the War	
Partial Reconstruction of the Fort, 1870-1876	
Endicott System and Battery Huger, 1898-1899	
Early Twentieth Century	
National Park Service Documentation and Planning, 1948-1959	
Visitor Center and Continuing Improvements, 1960-present	
Timeline.....	87
C. Physical Description.....	95
General Description.....	95
Setting	
The Fort Complex	
Components of the Fort Complex.....	101
A. Man-made Site Features Outside the Fort Walls.....	101
Methodology	
Description	
Summary of Conditions & Concerns - Man-made Features Outside Fort Walls	

B. Perimeter Fortifications: Fort Sumter (ca. 1840-ca. 1865).....	105
Methodology	
Gorge Wall Stabilized Ruins	
Left Flank Casemates	
Mining Casemates	
Left Face Casemates	
Right Face Casemates	
Right Flank	
Summary of Conditions & Concerns - Perimeter Fortifications	
C. Man-made Site Features Inside the Fort Walls.....	175
Methodology	
Description	
Summary of Conditions & Concerns - Man-made Features Inside Fort Walls	
D. Battery Huger (1898-1899).....	181
Methodology	
Architectural Description	
Structural Systems	
Utility Systems	
Exterior Features	
Room-by-Room Description	
Summary of Conditions & Concerns - Battery Huger	

## **Part II - Treatment & Use**

A. Ultimate Treatment & Use.....	257
B. Requirements for Treatment & Use.....	261
C. Alternatives for Treatment & Use.....	265
D. Recommendations for Treatment & Use.....	269

<b>Bibliography.....</b>	<b>275</b>
--------------------------	------------

## **Volume II: Appendices A-F**

A. Glossary	
B. Documentation Drawings: As-Found	
C. Report on Structural Issues	
D. Exterior Elevation Conditions Drawings	
E. Comparative Photos, Historic & Current	
F. Technical Review Document	

## **Volume III: Appendices G-H**

G. Historic Plans	
H. HABS Drawings 1991-92	

---

# Project Team

## **National Park Service -- Southeast Regional Office**

Paul Hatchett, Chief, Planning and Stewardship Branch  
Dr. Ali A. Miri, Senior Historical Architect, Project Manager, CO's Technical Representative  
Stacey Rickard, Contracting Officer (CO)  
Tommy H. Jones, former Project Manager

## **National Park Service -- Fort Sumter National Monument**

Timothy J. Stone, Superintendent  
Sandy Pusey, Chief of Facility Management

## **Joseph K. Oppermann – Architect, P.A. (JKOA)**

Joseph K. Oppermann, FAIA, Historical Architect  
Rebecca L. McCormick, AIA, Architect  
Langdon Edmunds Oppermann, Architectural Historian  
Christopher M. Woollard, Associate AIA

## **Building Conservation Associates, Inc. (BCA)**

Dorothy S. Krotzer, Materials Conservator  
Lauren Drapala, Materials Conservator

## **Bennett Preservation Engineering, Inc. (BPE)**

Craig M. Bennett, Jr., PE

## **Aaslestad Preservation Consulting, LLC (APC)**

Peter Aaslestad, Photogrammeter

## **Sarah Fick Consulting (SFC)**

Sarah Fick, Architectural Historian





---

# Appendix G:

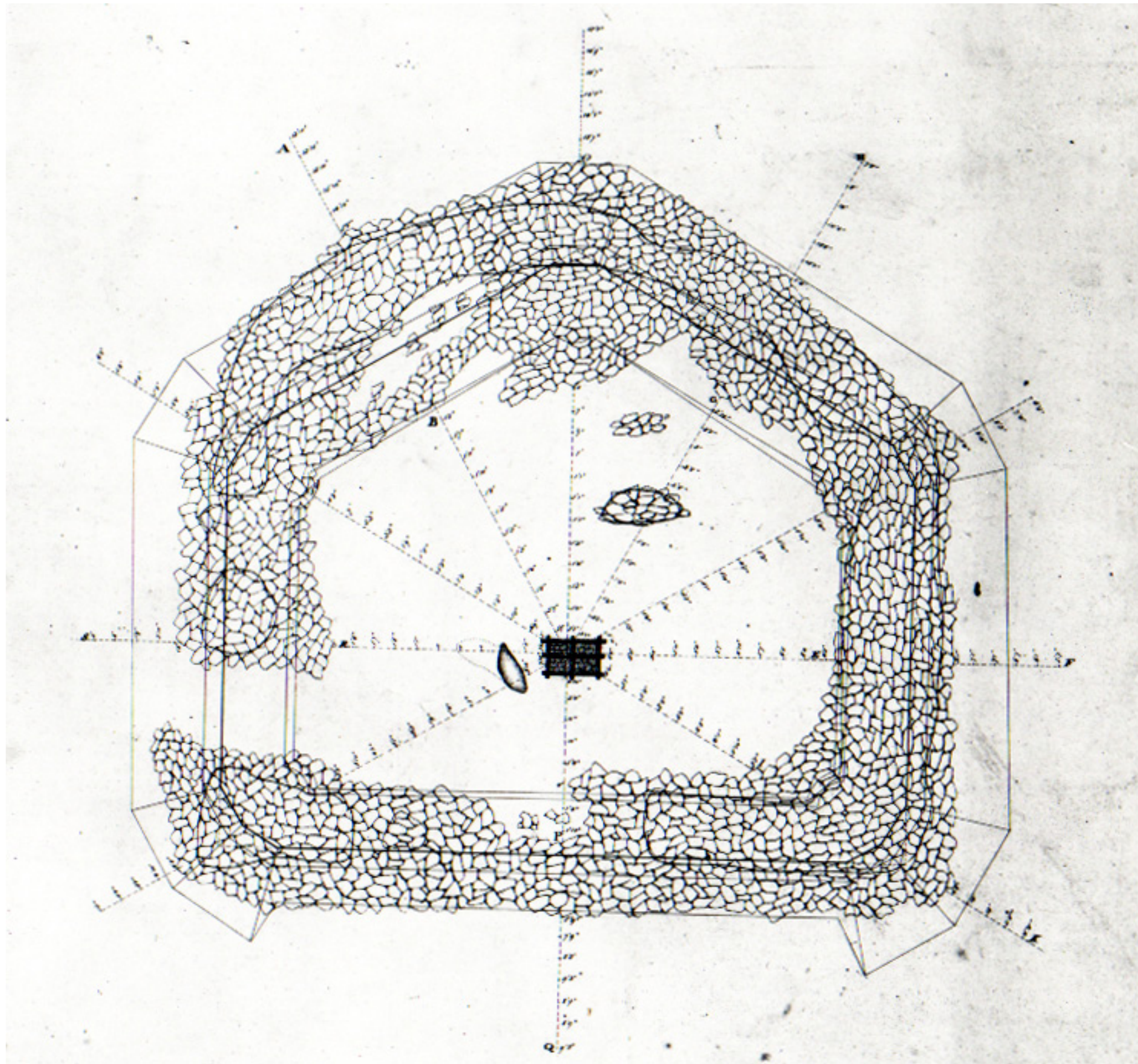
## Historic Plans

This appendix contains historic plans and drawings of Fort Sumter and Battery Huger on file in FOSU archives.

- Sheet G-1: Foundation Construction Progress as of September 1833.
- Sheet G-2: "Annual Drawing of Fort Sumter, Charleston Harbour, S. C., showing the condition of the work on the 30th Sept: 1845 and the progress made during the year. Drawn by J.D. Kurtz, 2nd Lt of Engrs."
- Sheet G-3: "Plan, Sections and Elevations of Fort Sumter, Charleston Harbour, exhibiting the condition of the work on the 30th September: 1846. Drawn under the direction of Capt A.H. Bowman, Corps of Engineers, Supertg, by J.D. Kurtz, 2nd Lt of Engrs."
- Sheet G-4: Section through stair tower and casemate elevation, dated June 11, 1849 with annotations through July 21, 1854.
- Sheet G-5: Plans and elevation of Officers' Quarters at interior gorge wall with sallyport, September 11, 1851.
- Sheet G-6: Section dated June 11, 1846 with annotations through May 29, 1854.
- Sheet G-7: "Fort Sumter, South Carolina, at the time of its capture February 18th, 1865," drawings and elevations prepared for Q. A. Gillmore's report, November 1, 1865.
- Sheet G-8: Inset plan of Fort Sumter at the time of its capture February 18, 1865, among drawings and elevations prepared for Q. A. Gillmore's report, November 1, 1865.
- Sheet G-9: "Plans & Sections of a Design for Rebuilding Fort Sumter, S.C. for an Armament of Heavy Guns," August 1, 1868.
- Sheet G-10: "Fort Sumter, as proposed by The Bd. of Engrs. 1870-71" (recorded July 1887).
- Sheet G-11: "Plans and Elevations of Fort Sumter, S.C. Showing the original design for reconstructing the work, December, 1871, with all the modifications since adopted, and exhibiting its general appearance when finished. June 1, 1877."
- Sheet G-12: 1877 sections and elevations.
- Sheet G-13: Ground floor plan, Battery Huger, 1901.
- Sheet G-14: Battery Huger, 1937 plan.
- Sheet G-15: 1944 plan showing AMTB position, with notation that Battery Huger is "abandoned."
- Sheet G-16: 1949 plan showing locations of proposed demolitions, "General Demolition and Repairs, 1949."
- Sheet G-17: "Historical Base Map- April 12, 1861-1st Tier, Fort Sumter as it Existed. Part of the Master Plan," May 31, 1951.
- Sheet G-18: 1958 plan of Fort Sumter showing areas to be excavated, original and new sites for Union Garrison Monument, locations of buried cisterns, slope locations, and dump sites for excavated material.
- Sheet G-19: "Battery Huger Development, Elevations & Roof Plan," November 23, 1959.
- Sheet G-20: "General Development Plan, Part of the Master Plan," May 1965.



Foundation Construction Progress  
as of September 1833.  
(NARA; copy in FOSU vertical file,  
Photograph Drawer 2)





Drawer 66.

Sheet 17.

# ANNUAL DRAWING

of  
FORT SUMTER, CHARLESTON HARBOUR, S. C.

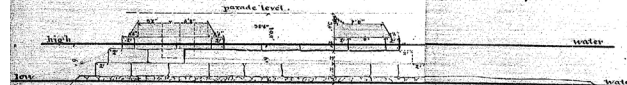
Showing the condition of the work on the 30<sup>th</sup> Sept: 1845,

and the progress made during the year.

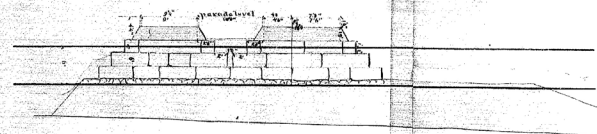
Drawn by J. D. Kurtz, 2<sup>nd</sup> Lt of Engrs.



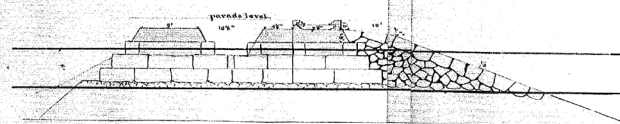
Section on A, B,



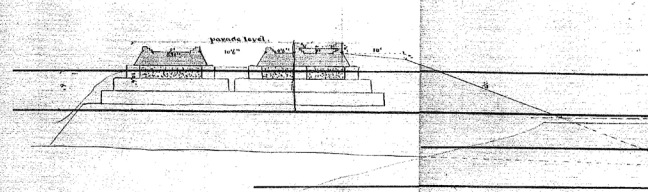
Section on C, D,



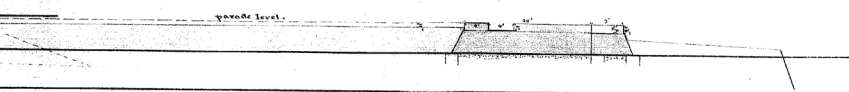
Section on E, F,



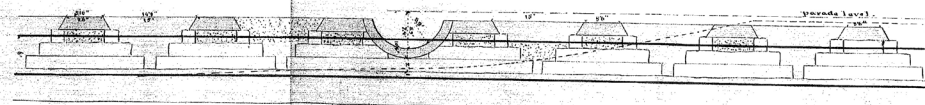
Section on G, H,



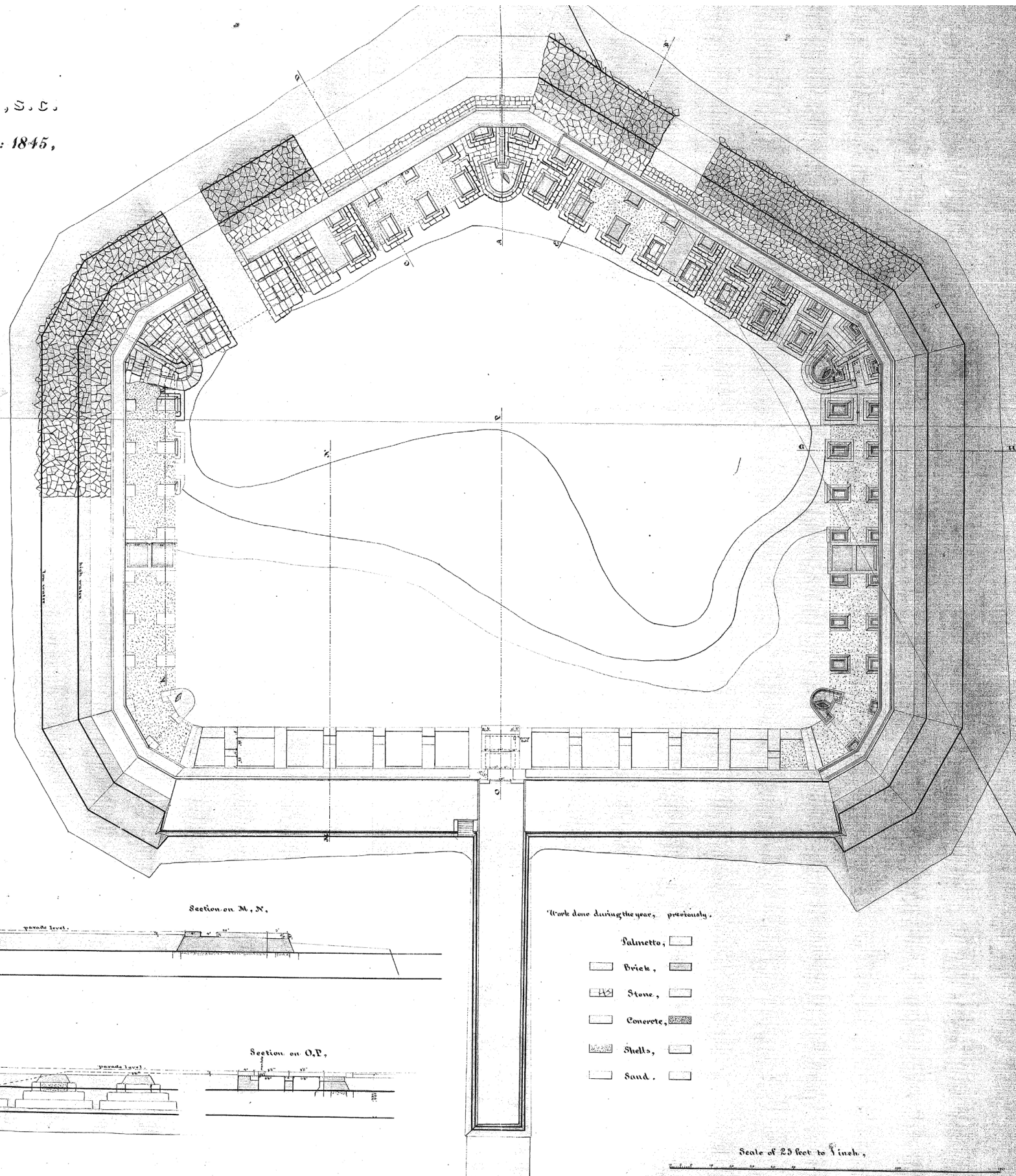
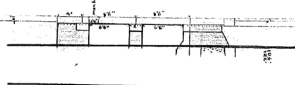
Section on M, N,



Section on K, L,



Section on O, P,



Work done during the year, previously.

- Salmetto,
- Brick,
- Stone,
- Concrete,
- Shells,
- Sand,

Scale of 25 feet to 1 inch.

Scale for the Sections.

"Annual Drawing of Fort Sumter,  
Charleston Harbour, S. C., showing  
the condition of the work on the 30th  
Sept: 1845 and the progress made  
during the year. Drawn by J.D. Kurtz,  
2nd Lt of Engrs."  
(NARA; copy in FOSU map files)

Engineer Department, October 25<sup>th</sup> 1845.  
Received with letter of Capt. Bowman Oct: 20<sup>th</sup> 1845.  
(Letter B 2058)



Drawer 66.  
Sheet 36.



FORTIFICATIONS

SOUTH CAROLINA.

"Plan, Sections and Elevations of Fort Sumter, Charleston Harbour, exhibiting the condition of the work on the 30th September: 1846. Drawn under the direction of Capt A.H. Bowman, Corps of Engineers, Supertg, by J.D. Kurtz, 2nd Lt of Engrs." (NARA; copy in FOSU map files)

CHARLESTON  
HARBOUR.

PLAN,  
SECTIONS and ELEVATIONS  
of  
**FORT SUMTER**

*exhibiting the condition of the work*

*on the 30th September, 1846.*

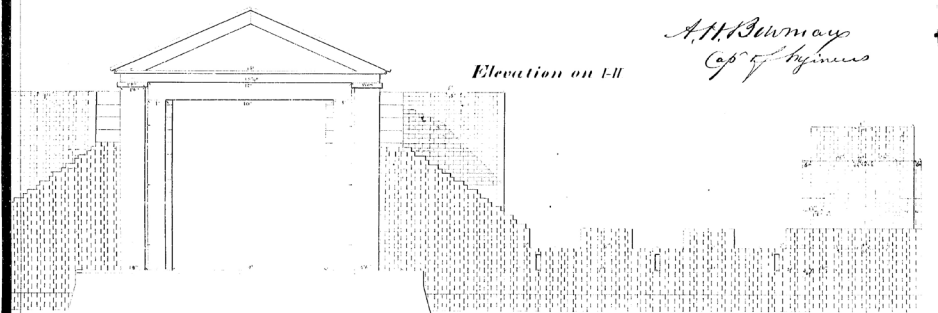
*Drawn under the direction of Capt A.H. Bowman,*

*Corps of Engineers, Supertg,*

*by J.D. Kurtz, 2nd Lt of Engrs.*

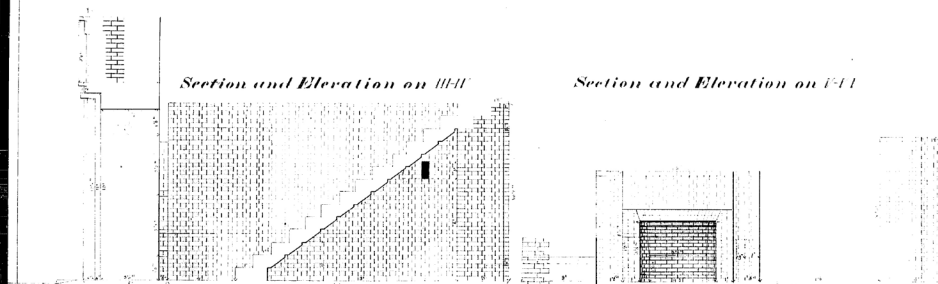
*A.H. Bowman*  
*Capt of Engineers*

*Elevation on I-II*

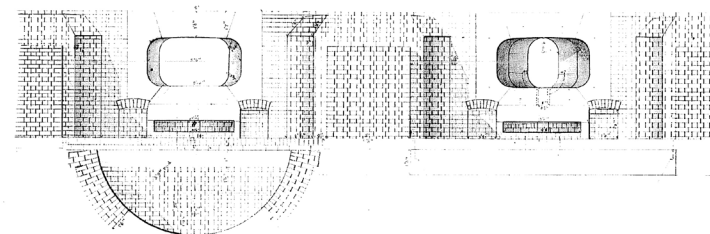


*Section and Elevation on III-IV*

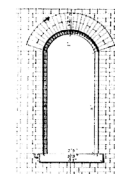
*Section and Elevation on I-III*



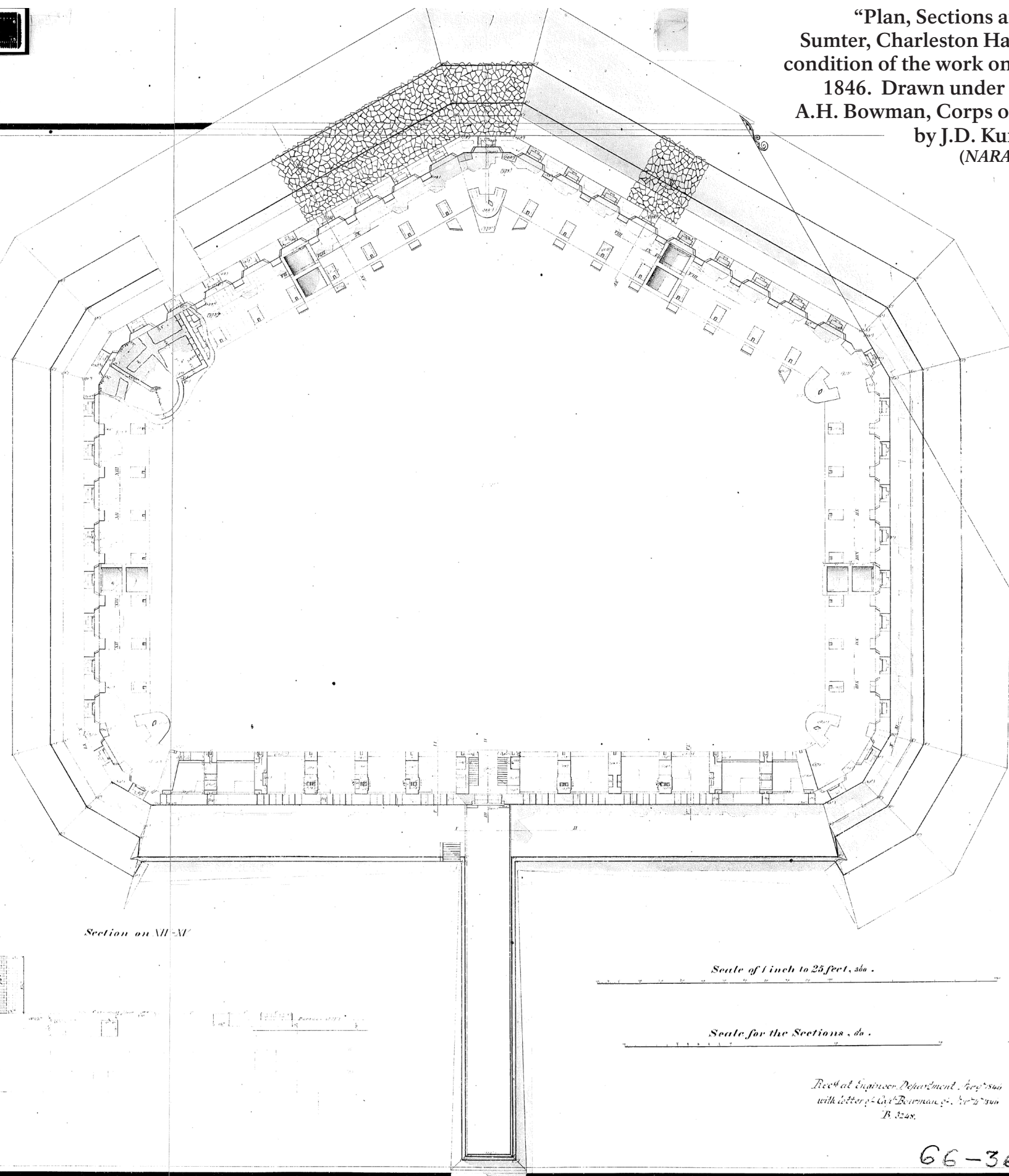
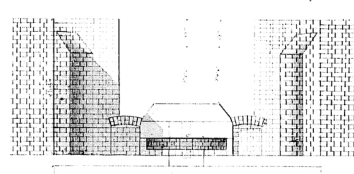
*Elevation on VII-VIII-IX*



*Elevation on X-XI*



*Elevation on XII-XIII*



*Section on XII-XI*

*Scale of 1 inch to 25 feet, 360.*

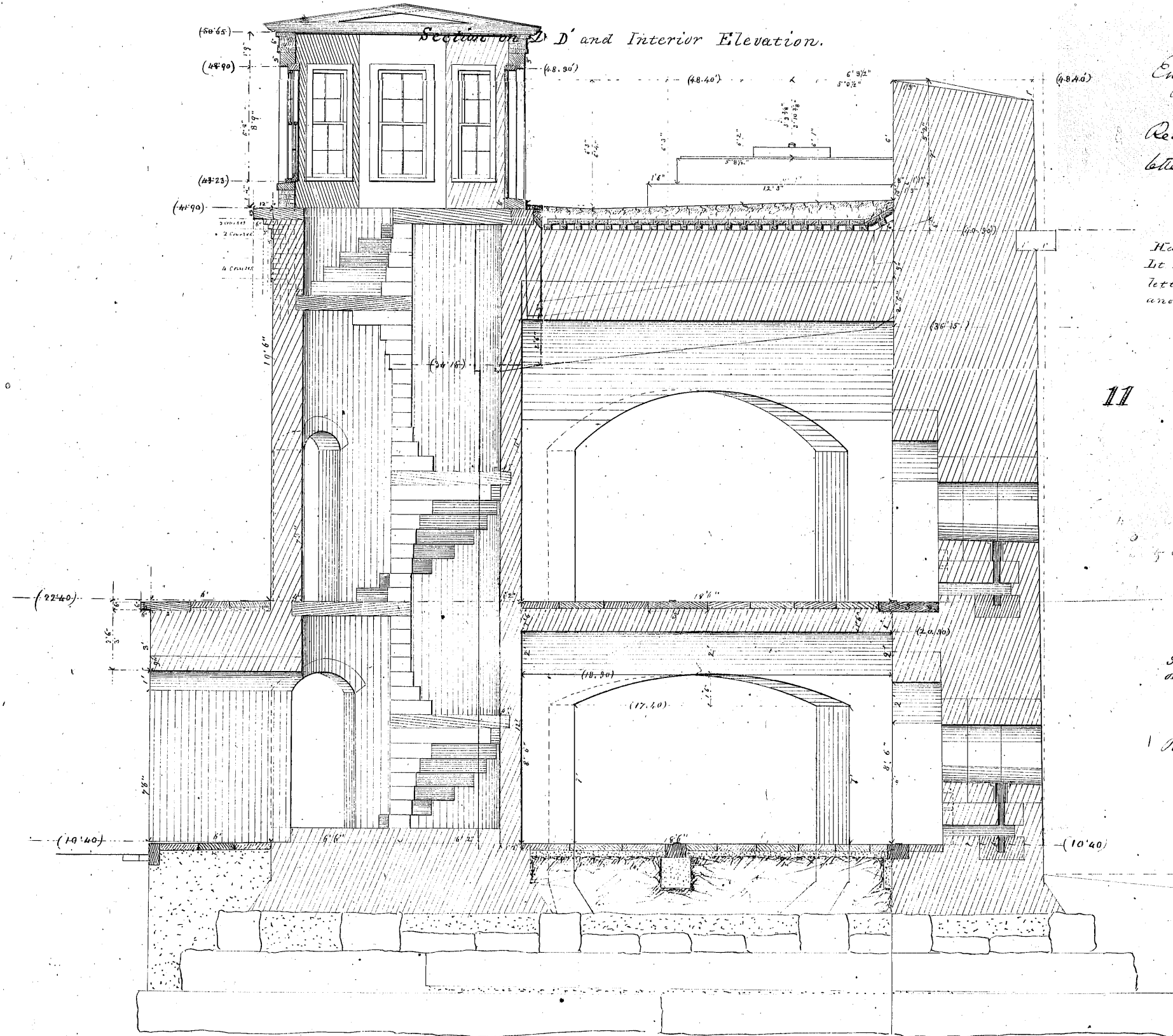
*Scale for the Sections, 60.*

*Recd at Engineer Department, Sept 2nd 1846  
with letter of Capt Bowman, p. 1st 2nd 3rd  
B. 3248.*

66-36

(NARA; copy in FOIU map files)

*Drawer 66.*  
*Sheet 31.*



Engineer Department  
11<sup>th</sup> June 1846. -  
Rec<sup>d</sup> with Lieut. Huntz  
letter of the 6<sup>th</sup> instant.

Octs. 13<sup>th</sup>, 1851  
Having been modified, sent to  
Lt Kurtz at Charleston, with  
letter of this date. — To be copied  
and returned.

Eng: Dept  
March 8. 1852

Returned with Cecil Kestys  
letter of March 5-1852 (K471)

Eng<sup>l</sup> Dep<sup>t</sup>  
April 24 1854  
Sent to Lieut. Craighill at Charleston  
with letter of this date.

Eng Dept-  
May 29. 1854

Returned with H. Craighill's  
letter of 25<sup>th</sup> May 1854 (B3354)

Eng. D<sup>pt</sup>. July 14. 1854  
Sent to Capt. Gilmer at Charleston with letter  
of this date. To be copied & returned.

Eng Dept July 21. 1854

Eng Decr 16. July 21. 1854  
 1 Returned with Lieut Craighill's letter of 14 July (G673)

type of 25936  
also in Dr 6  
C 11



*Drawer 66.  
Sheet 53.*

The floor plan depicts a prison wing with the following layout:

- Top Section:** A long corridor runs along the top wall. Below it, from left to right, are a 'Magazine', a 'Kitchen', and a 'Guard Room'. The 'Guard Room' has an external staircase on its right side.
- Middle Section:** A central corridor runs horizontally. To its left are two 'Store Rooms'. To its right are two 'Kitchens' and a 'Light Prison'.
- Bottom Section:** Below the central corridor, from left to right, are two 'Store Rooms', a large empty room, and an 'Office Guard Room'.
- Corridors and Stairs:** Multiple corridors connect the rooms. Stairs are located in several areas, including a central staircase and an external staircase on the right.
- Entrances:** There are several entrances, including one on the far left and one on the far right.

[illegible]

Engineering Department, September 11 1881  
Copy sent to H. Kuntz at Charleston, S.C. with letter of this date.

The image is a detailed architectural floor plan of the Third Floor of the U.S. Custom House in New York. The plan is oriented horizontally and shows a long, narrow building layout. At the top center, the text "Third Floor" is written. The plan includes numerous rooms of varying sizes, corridors, and staircases. Dimensions are provided for many of the rooms and corridors. The drawing is a technical sketch, likely a pencil or light ink drawing, showing the structural layout and room divisions. The plan is divided into several sections by corridors and staircases, with rooms labeled with numbers and names. The overall layout is symmetrical, with a central corridor and rooms on either side. The drawing is a high-resolution scan of a physical architectural drawing, showing fine details and textures.

This architectural drawing shows the facade of the Palazzo di San Marco in Venice. The facade is characterized by its repetitive window pattern across three floors. The top floor features a series of small, arched windows. The middle floor has larger, rectangular windows with decorative moldings. The ground floor includes a central arched entrance and larger windows, some of which are flanked by columns. The drawing is a detailed black and white line drawing, likely a reproduction of a historical architectural plan or elevation.

Upper Belt

Lower Belt

1000  
500



Engineer Department 11 June 1846.

Rec'd with letter of Lieut. Hunt, of  
the 6<sup>th</sup> inst. B.

Eng. Dept. 11 Jan. 1847. Sent to Capt.  
W. H. Burrows with letter of this date.

Interior Elevation.

Drawer 66.

Sheet 28.

Oct. 1851-1851  
Having been modified, sent to  
Lt. Kirtz at Charleston with  
letter of this date. - This copied  
& returned.

Section on A-a'-B.  
Scale 1 inch = 5 feet

See plans of Quarters

Eng. Dept.  
March 8, 1852  
Returned with Lt. Kirtz letter  
of 5<sup>th</sup> March 1852 (C 471)

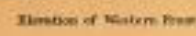
Eng. Dept.  
April 24/52  
Sent to Lieut. Craighead at  
Charleston with letter of  
this date.

Eng. Dept.  
May 29, 1854  
Returned with Lt. Craighead's letter  
of 25 May 1854 (C 3354)

66-28



1906-11



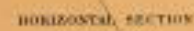
## SOUTH CAROLINA

Showing the Effects of the

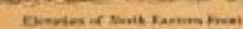
The accompanying table reports on

Haj. Ghol. Q. A. COLL. 2008. 17. 8. Yala

Grady, Dept. of the South



Scale of Plan and Horizontal Section 66



Scale of Services and Elements of the



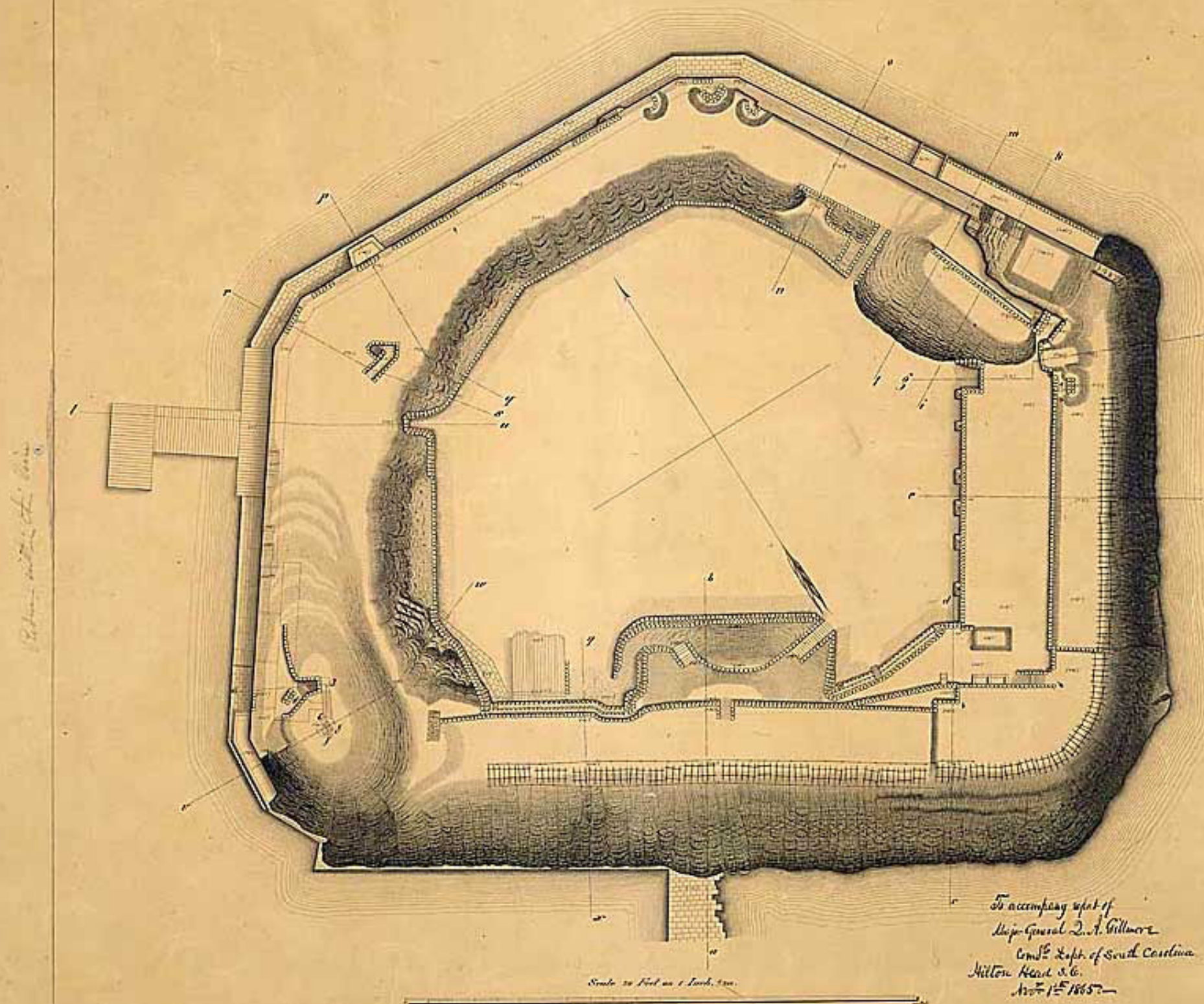


Office of Chief Engineer.

Dept. of the South.

# Fort Sumter.

## I. Horizontal Projection.



Approved  
Chas. R. Smith.  
Brig. Major & Chief Eng'r, D.S.

To accompany report of  
Major-General D. A. Gillmore  
Comd'g Dept. of South Carolina  
Hilton Head S.C.  
Nov 1<sup>st</sup> 1865.

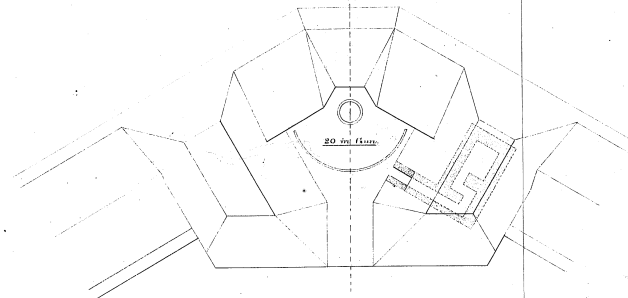
Drawn & colored by J. H. A. Barber  
1865.

Inset plan of Fort Sumter  
at the time of its capture  
February 18, 1865,  
among drawings and  
elevations prepared for  
Q. A. Gillmore's report,  
November 1, 1865.  
(NARA; copy in FOSU map files)



Drawer 66.  
Sheet 88.

BARBETTE DESIGN NO 1.



SCALE 1 IN. TO 25 FT. FOR PLANS.

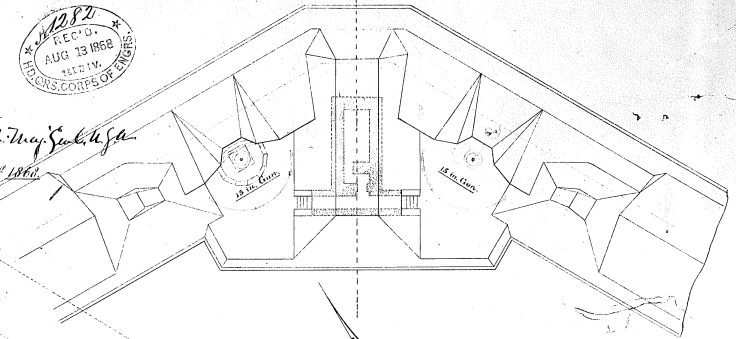
SCALE 1 IN. TO 10 FT. FOR SECTIONS.

PLANS & SECTIONS  
OF A DESIGN FOR REBUILDING  
FORT SUMTER, S.C.  
FOR AN ARMAMENT OF HEAVY GUNS

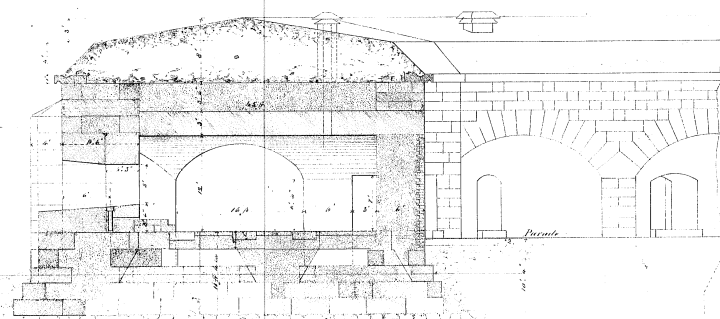
By *Wm. H. Gillmore*  
Major of Eng. Bt. Major, U.S.A.

To accompany his report to the Chief Engineer, dated August 1<sup>st</sup> 1868.

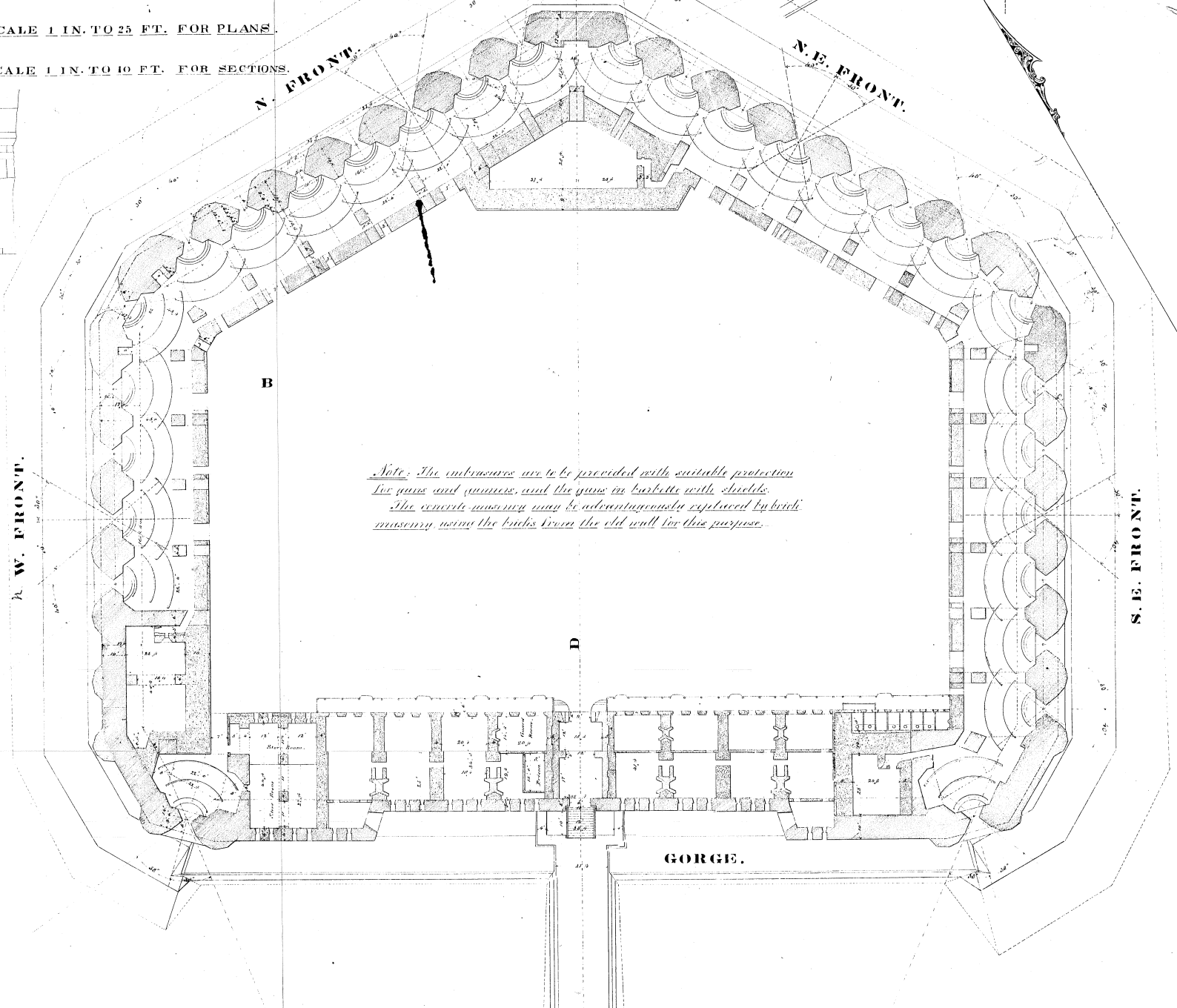
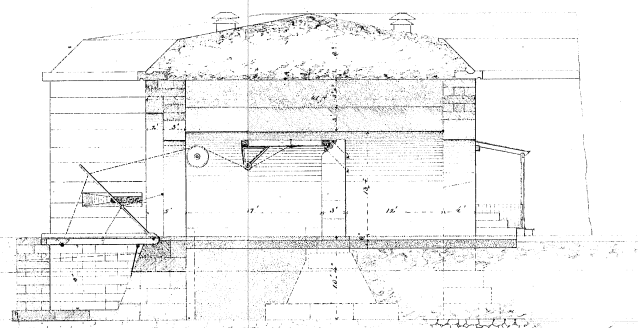
BARBETTE DESIGN NO 2.



SECTION THRO' A - B



SECTION THRO' C - D

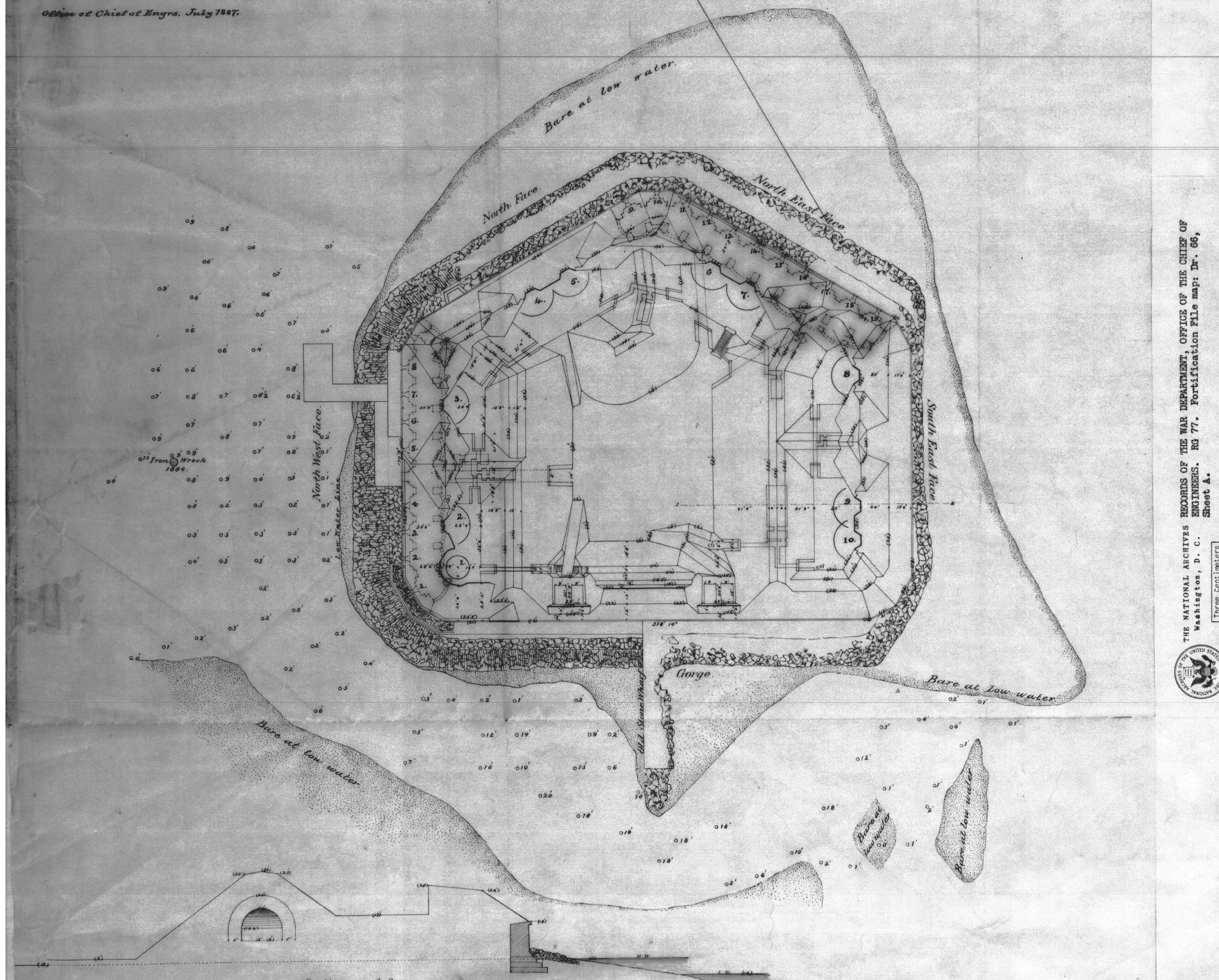


*Note: The embrasures are to be provided with suitable protection  
for guns and gunners, and the guns in barbette with shields.  
The concrete masonry may be advantageously replaced by brick  
masonry, using the bricks from the old wall for this purpose.*



Scale 1" to 50'

*Office of Chief of Engrs. July 1887.*



THE NATIONAL ARCHIVES RECORDS OF THE WAR DEPARTMENT, OFFICE OF THE CHIEF OF  
ENGINEERS. RG 77. Fortification File map: Dr. 86,  
Washington, D. C. Sheet A.



Three Centimeters

**“Fort Sumter, as proposed by The Bd. of  
Engrs. 1870-71” (recorded July 1887).  
(NARA; copy in FOSU map files)**



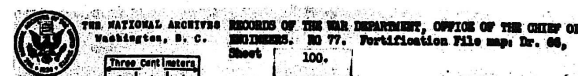
"Plans and Elevations of Fort Sumter,  
S.C. Showing the original design for  
reconstructing the work, December, 1871,  
with all the modifications since adopted,  
and exhibiting its general appearance when  
finished. June 1, 1877."  
(NARA; copy in FOSU map files)

PLAN & ELEVATIONS  
OF  
FORT SUMTER, S. C.

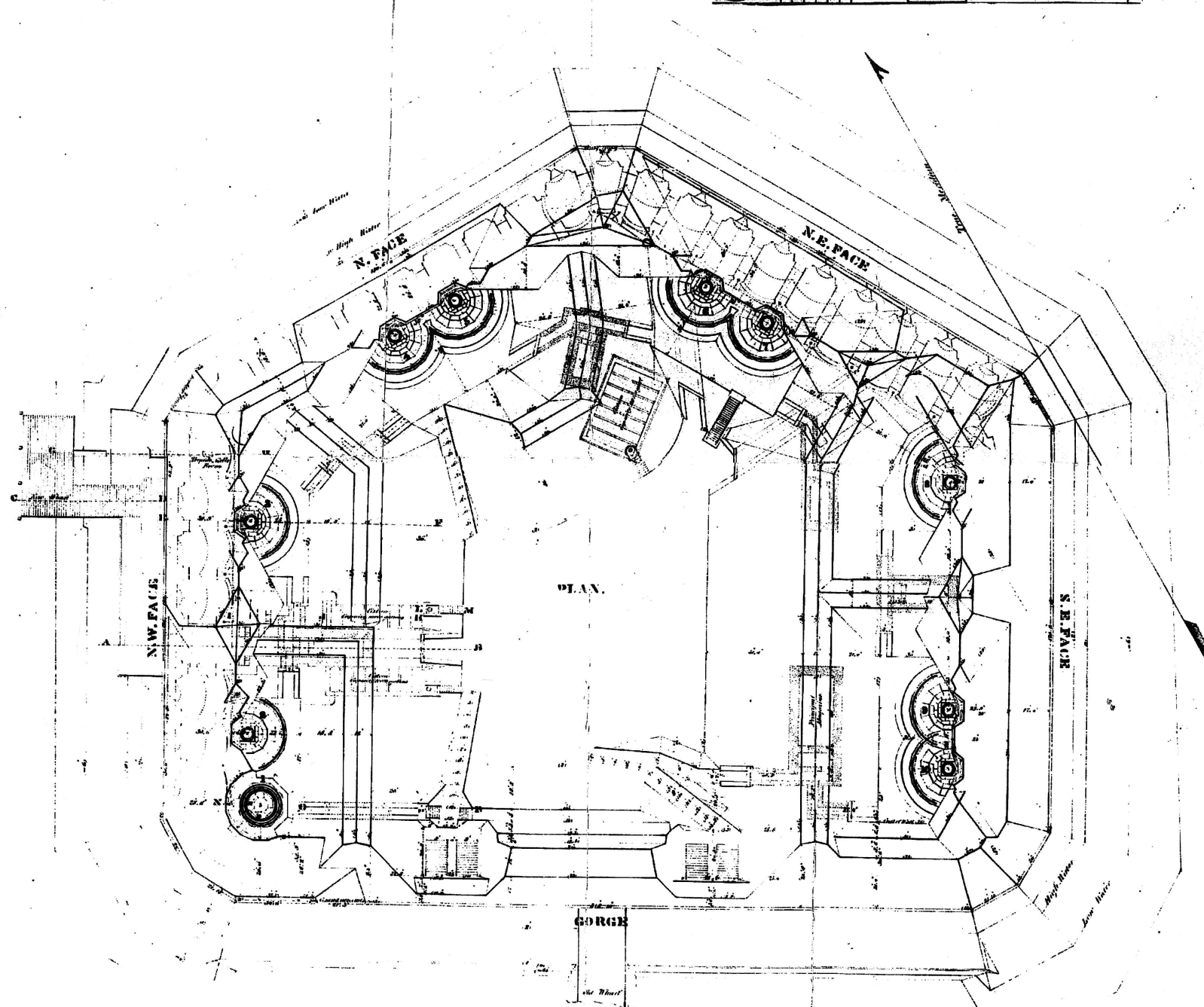
SHOWING THE ORIGINAL DESIGN FOR RE-CONSTRUCTING THE WORK, DECEMBER, 1871,  
WITH ALL THE MODIFICATIONS SINCE ADOPTED, AND EXHIBITING ITS GENERAL APPEARANCE WHEN FINISHED.

JUNE 1, 1877.

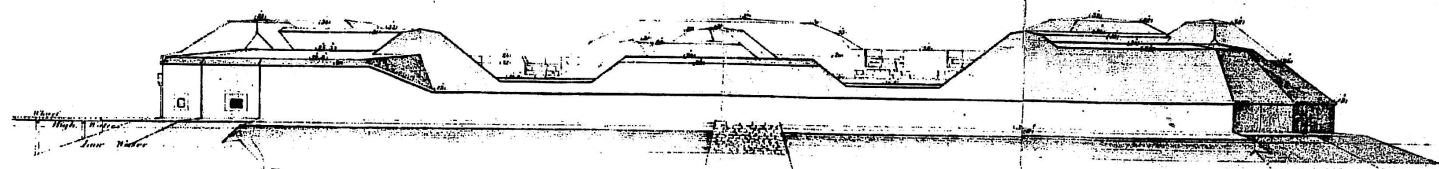
Scale 1 inch = 25 feet.



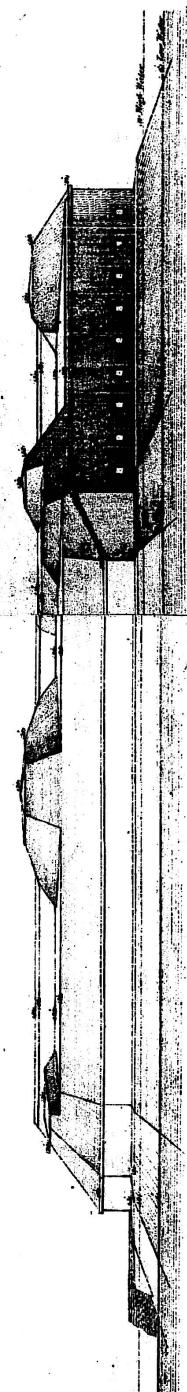
ELEV'N. OF NORTH & NORTH-WEST FRONTS.



ELEVATION OF GORGE



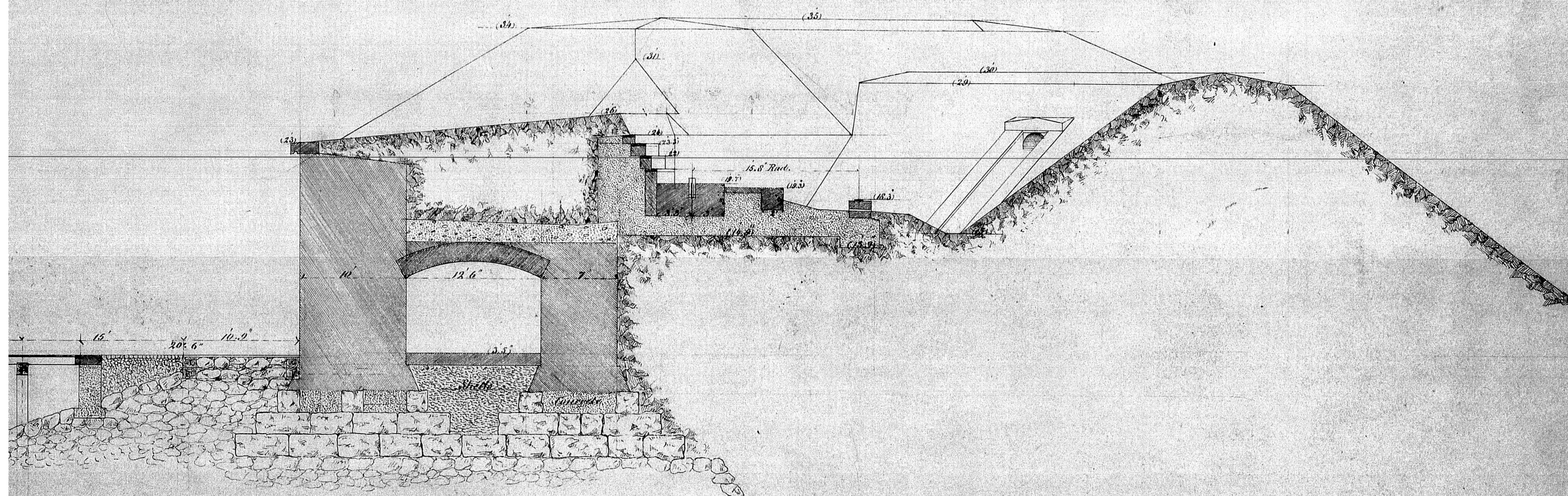
ELEV'N. OF SOUTH-EAST & NORTH-EAST FRONTS.



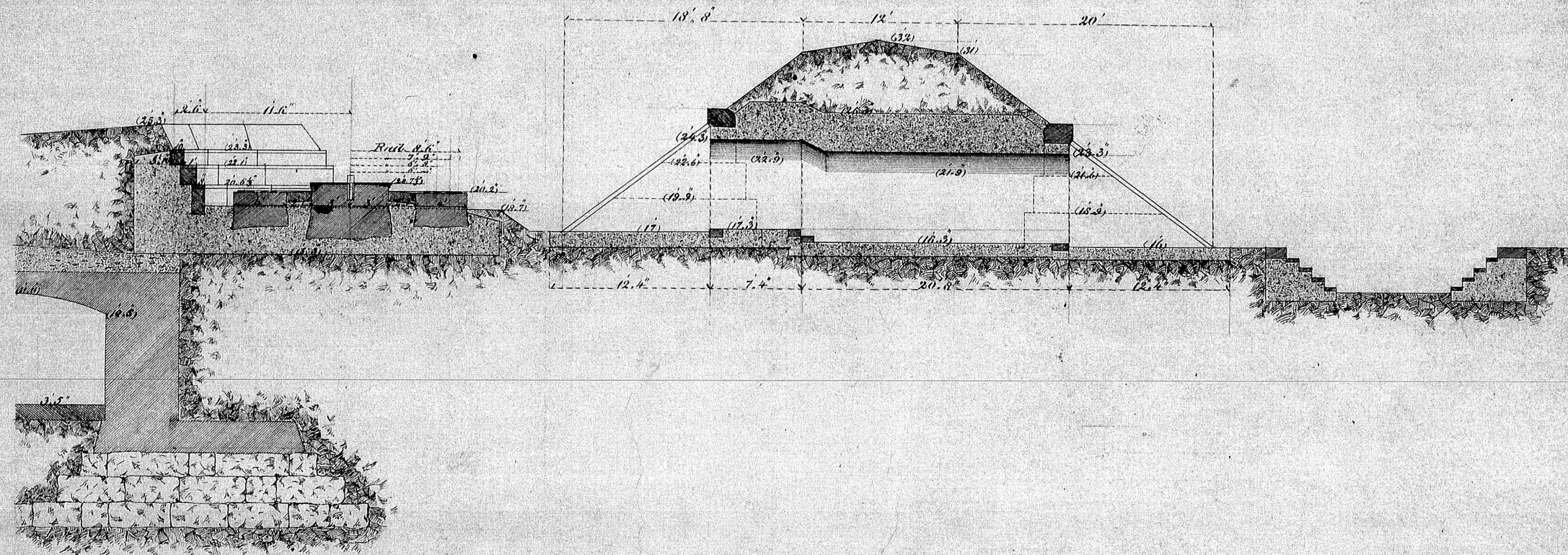
392/25944



SECTION & ELEVATION ON LINE C-D-E-F.

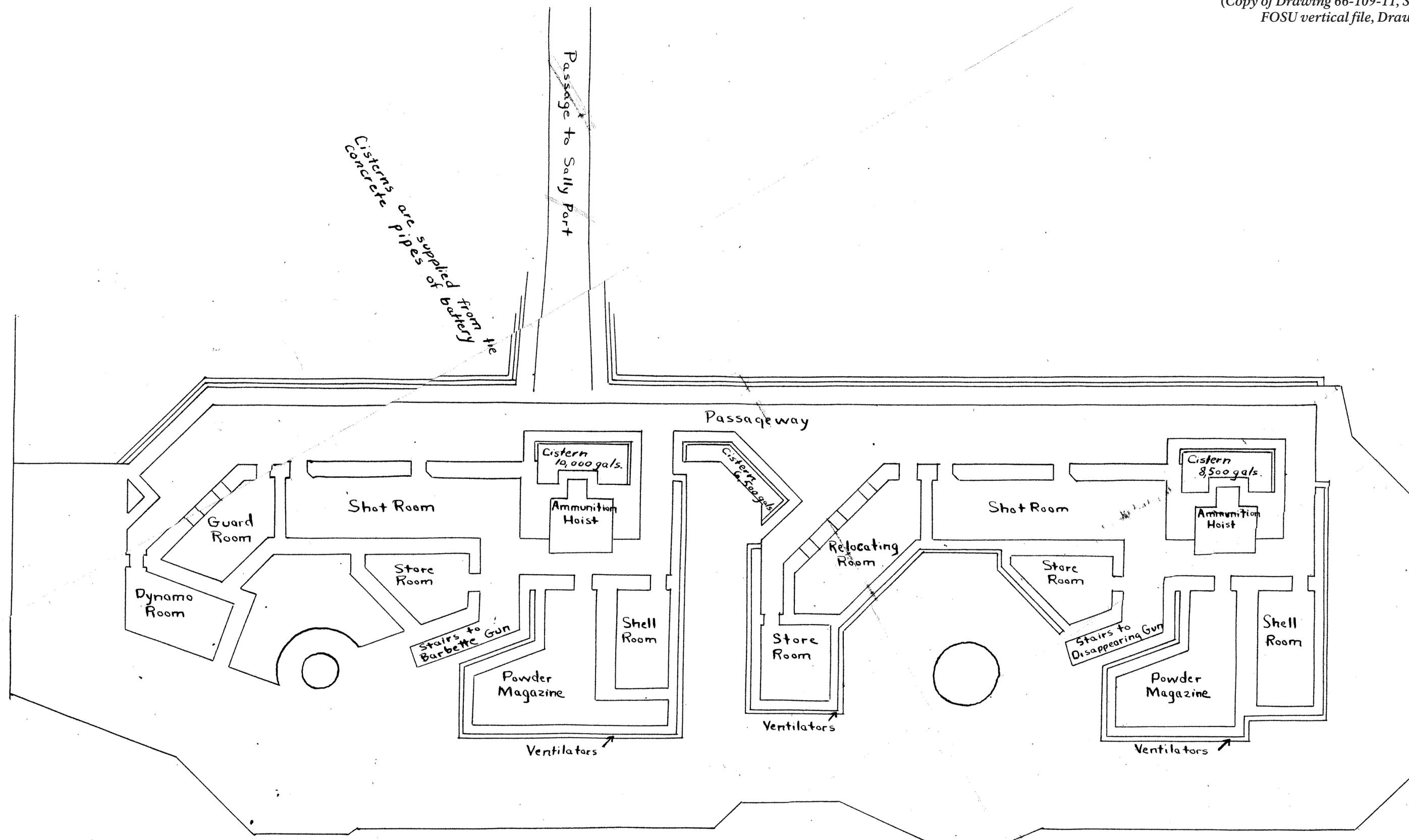


SECTION & ELEVATION ON LINE N-O-P



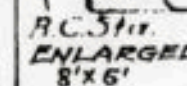
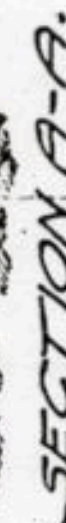


Ground floor plan, Battery Huger, 1901.  
(Copy of Drawing 66-109-11, Sheet 2.  
FOSU vertical file, Drawer 23)





0 32 64 96 FT





(*NARA*)

HARBOR DEFENSES OF Charleston  
FORT ..... Sumter  
BATTERY .. 1-A  
No. of Guns .. 2. Caliber 90mm. Carriage T3  
(Graphic Scale)

BATTERY 1-A FORT SUMTER

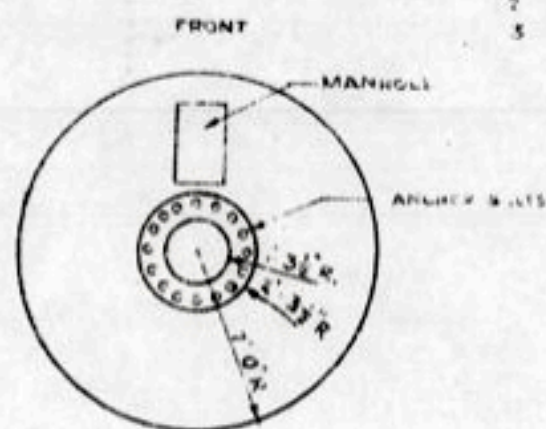
SEA SIDE



SECTION

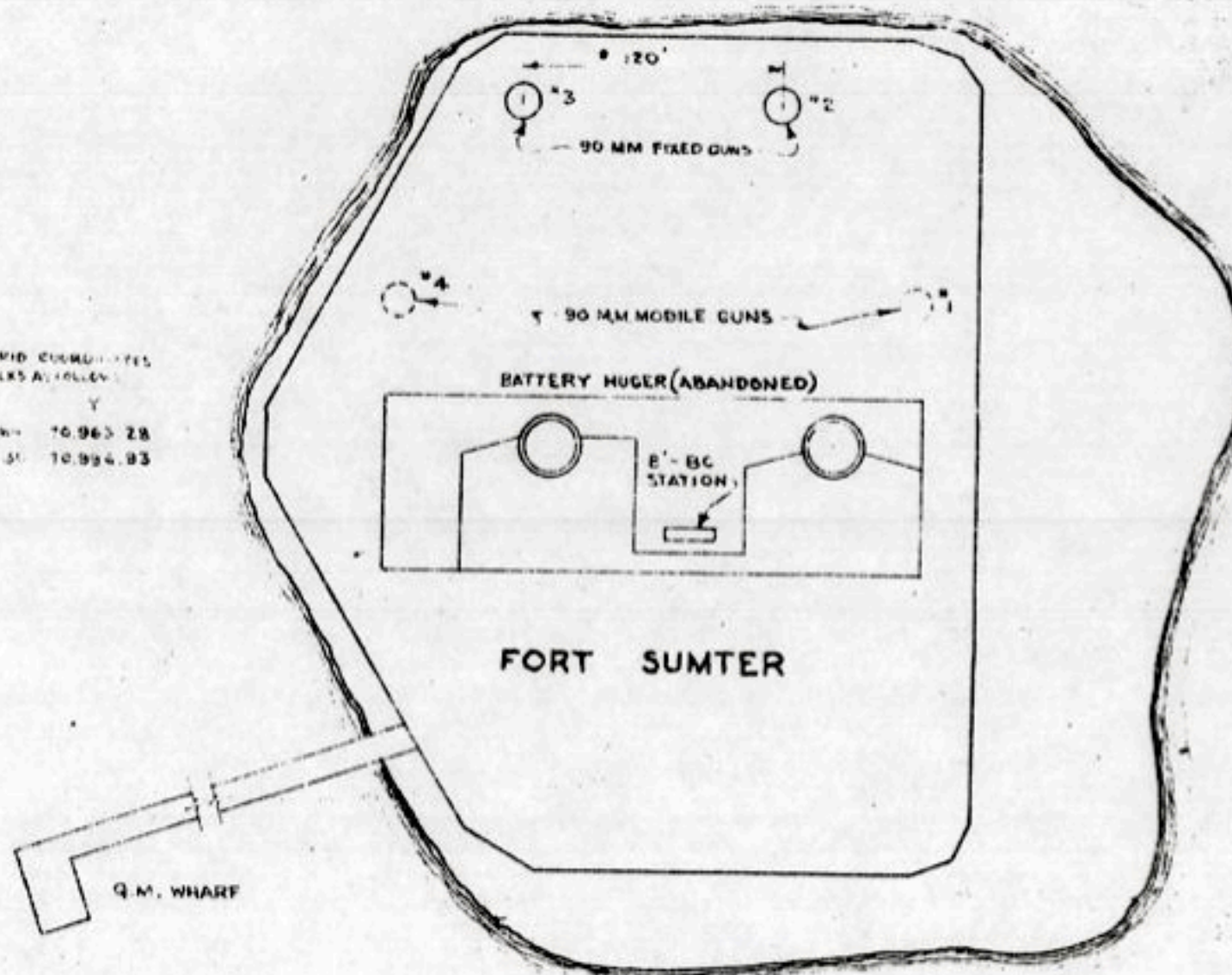
SCALE: 1" = 10'

LINE	X	Y
2	104.129 km	76.963 28
5	104.342 30	76.984.03



## PLAN

SCALE:  $1^{\circ} = 10'$



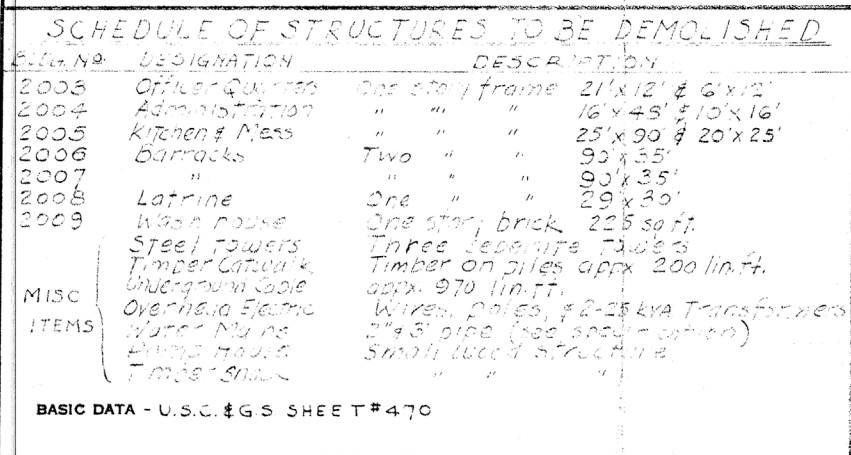
SECRET

## GENERAL PLAN

SCALE 1 (100%)



DESIGNED BY SWENY	PLANS AND DESIGN		RECREATIONAL PLANNING AND STATE COOPERATION		CLEARED
	FORESTRY		RESEARCH AND EDUCATION		
	HISTORY		SANITATION		
	ENGINEERING				
DATE APR 1 - 1949		REGIONAL DIRECTOR			



GENERAL NOTES

- 1- Buildings to be removed are shown shaded on Location Map.
- 2- For complete description of proposed demolition and repair work refer to Specifications.
- 3- For details of the repair of small boat landing see dwg. no. NM-SUM-1

RECOMMENDED <u>William W. Lockett</u> DATE <u>2-18-47</u> SUPERINTENDANT		UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE DIVISION OF ENGINEERING PREPARED BY REGIONAL OFFICE	REGION <b>I</b>
CONCURRED _____ DATE _____ REGIONAL ENGINEER			SHEET 1 OF 1
APPROVED <u>E.M.</u> REGIONAL DIRECTOR DATE <u>2-18-47</u>		GENERAL DEMOLITION AND REPAIR <small>NAME OF JOB</small> LOCATION MAP <small>LOCATION</small> FORT SUMTER NATIONAL MONUMENT <small>NAME OF PARK OR MONUMENT</small>	DRAWING NO. <u>NM-SUM</u> <u>5301</u>



"Historical Base Map- April 12, 1861-1st Tier, Fort Sumter as it Existed. Part of the Master Plan," May 31, 1951.  
(FOSU map files)

LEGEND

ALL WALLS	
BRICK FILL	
STONE FILL	
BRICK & STONE FILL	
WOODEN SHUTTERS	
METAL SHUTTERS	
TRAVERSE CIRCLES & IRONS	
GUNS	
POUNDERS	
HOWITZER	

MATERIALS USED IN CONSTRUCTION OF FORT SUMTER

ITEM	MATERIAL	NOTES
FOUNDATION	BALLAST ROCK	GRANITE, PARTLY AT LEAST, SHIPS BALLAST FROM NEW YORK & NEW ENGLAND
FORT STRUCTURE	BRICK, WITH CONCRETE CORE	BRICK "BEST CAROLINA GRAY VARIETY" CONCRETE - MIXED WITH SHELLS
WOODWORK	SOUTHERN PINE	THROUGHOUT
ESPLANADE	GRANITE	FLAGGING LAID ON ROCK FILL
CASEMATES		
FLOORING	BLUESTONE	FLAGGING-1ST TIER
	GRANITE	FLAGGING-2ND TIER
TRAVERSE CIRCLES	IRON	SET IN GRANITE ON CONCRETE FOUNDATIONS
EMBRASURES	CONCRETE	CONCRETE BLOCKS "BETON" 1ST TIER, FACED ON INTERIOR WITH RED FREESTONE
TERREPLEIN	SAND	OVER CRUSHED SHELL
CISTERNS (5)	BRICK (PROBABLY)	10,000 GAL. EACH, UNDER CASEMATE FLOORS
OFFICERS QUARTERS AND BARRACKS		
FOUNDATION	CONCRETE	LAI D ON TIMBER GRILLAGE, SUPPORTED ON PILES
WALLS	BRICK	
ROOFS	SLATE	
FLOOR STRUCT.		
BARRACKS	BRICK	FLAT ARCHES ON IRON BEAMS
OFFICERS Q.		
1ST FLOOR	WOOD	WOOD ON CONCRETE
2ND & 3RD	ALL WOOD	

CASTLE PINCKNEY  
4466 YARDS

FORT JOHNSON  
2453 YARDS

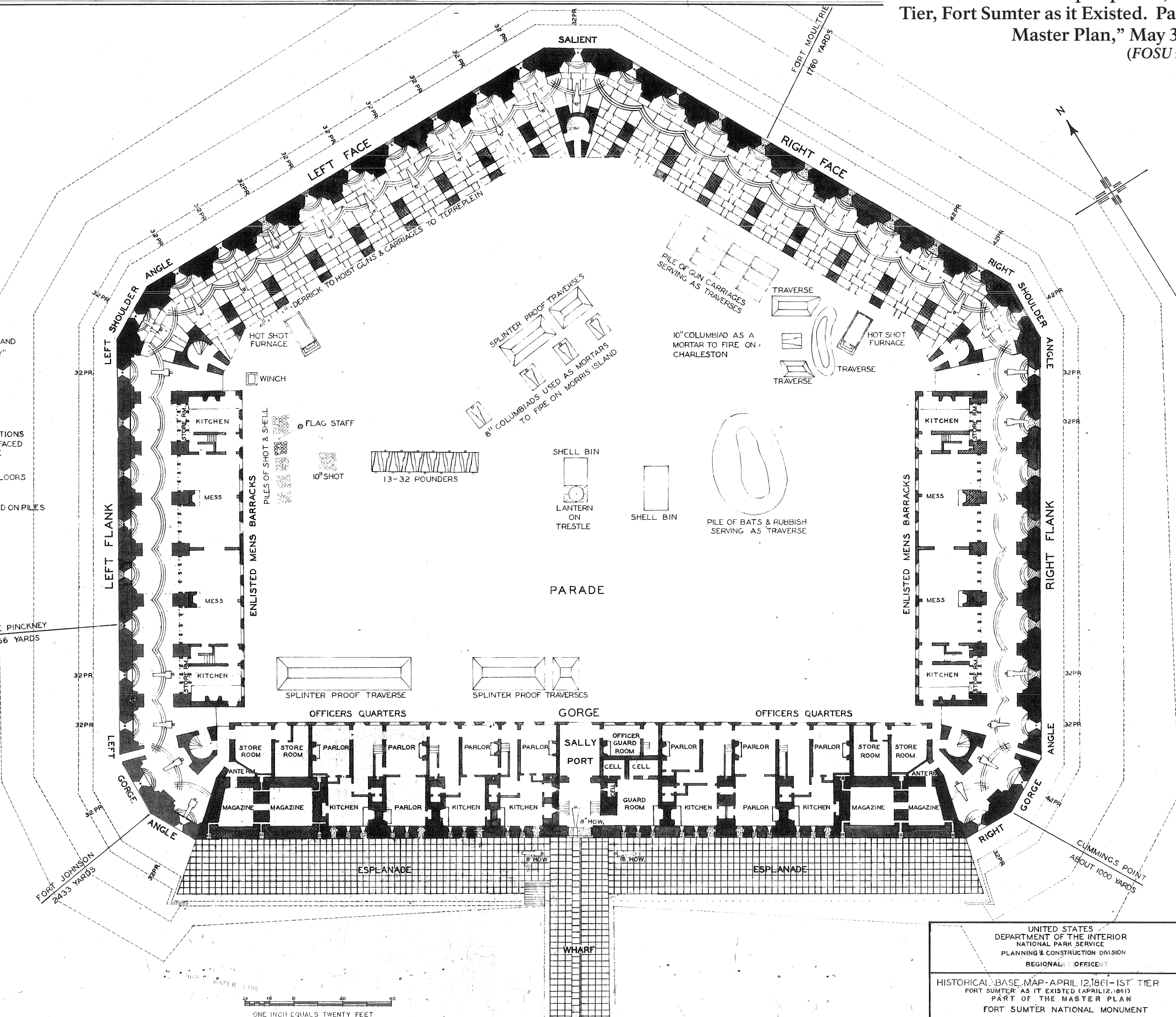
CUMMINGS POINT  
ABOUT 1000 YARDS

BASIC DATA: FRANK BARNES REPORT OF NOV. 23, 1949 TITLED "FT. SUMTER DEC. 26, 1860 & FT. SUMTER, APR. 12, 1861" AND INCLUSIONS.  
SUPT. LUCKETT'S DWG. NO. NM-SUM 2050.  
FORTIFICATION FILE MAP-DR 66 SHEET 82-NATL. ARCHIVES, WASH. D.C.  
SUPT'S SIGNATURE BY MEMO 6-12-51

ONE INCH EQUALS TWENTY FEET

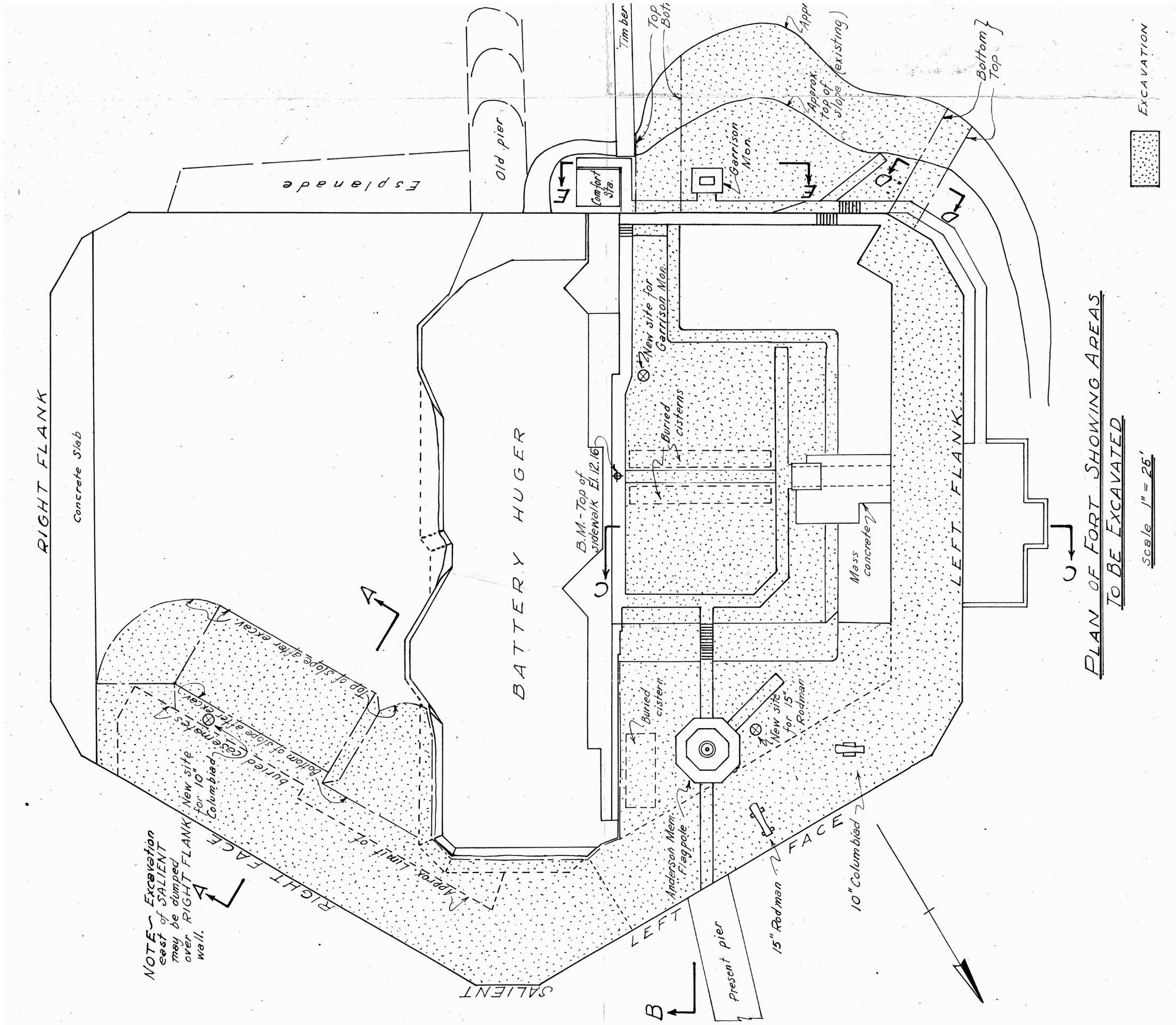
UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE PLANNING & CONSTRUCTION DIVISION REGIONAL OFFICE		REGION I
HISTORICAL BASE MAP-APRIL 12, 1861-1ST TIER FORT SUMTER AS IT EXISTED (APRIL 12, 1861) PART OF THE MASTER PLAN FORT SUMTER NATIONAL MONUMENT		SHEET 1 OF 1 DRAWING NO. NM-SUM 2006 DATE 11-5-51

DRAWN BY  
M. ORCUTT  
W. LUCKETT  
J. KIRKMAN  
CHECKED BY  
HISTORIAN William W. Lockett DATE 6-11-51  
BY MEMO 6-12-51

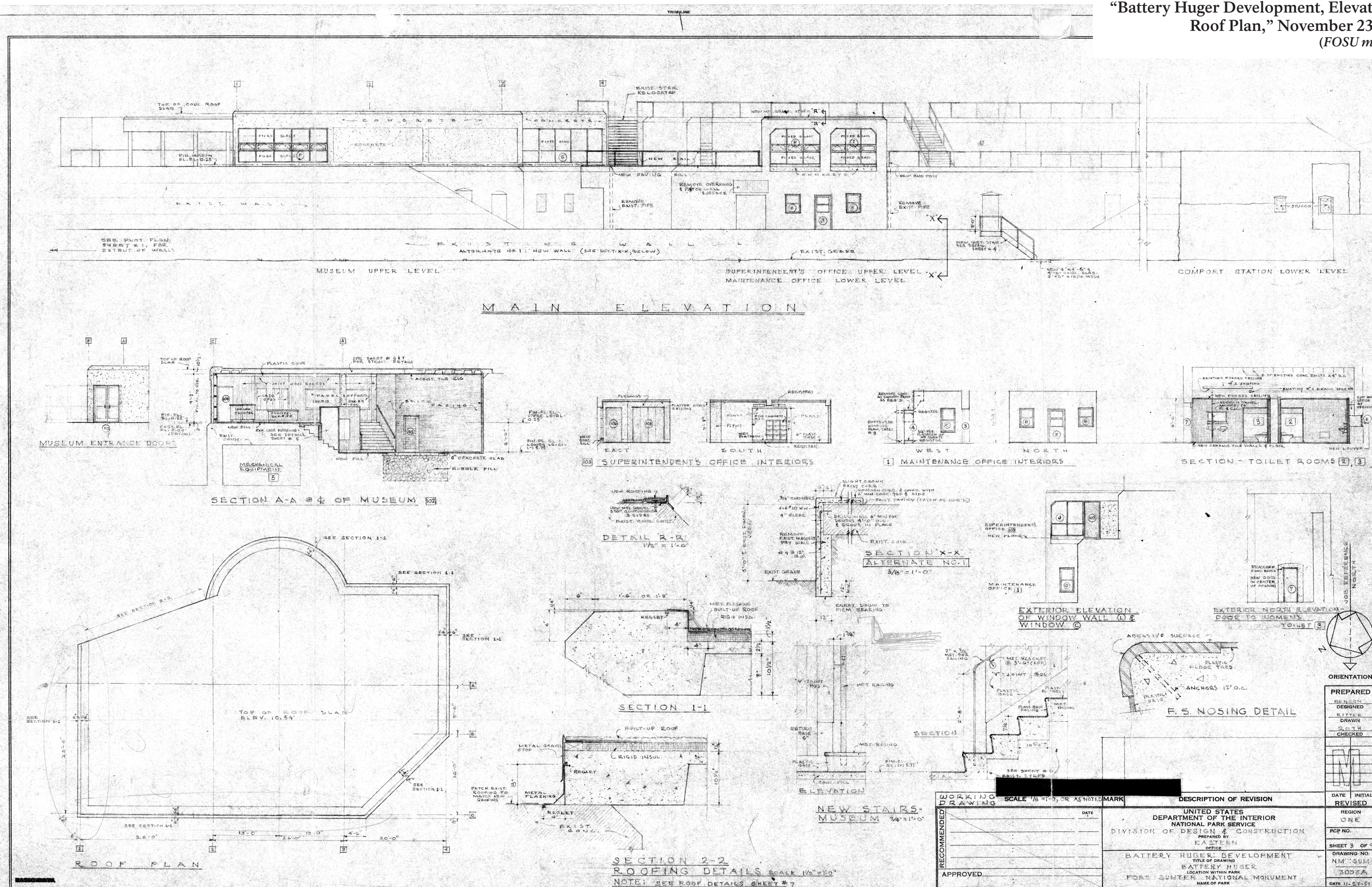




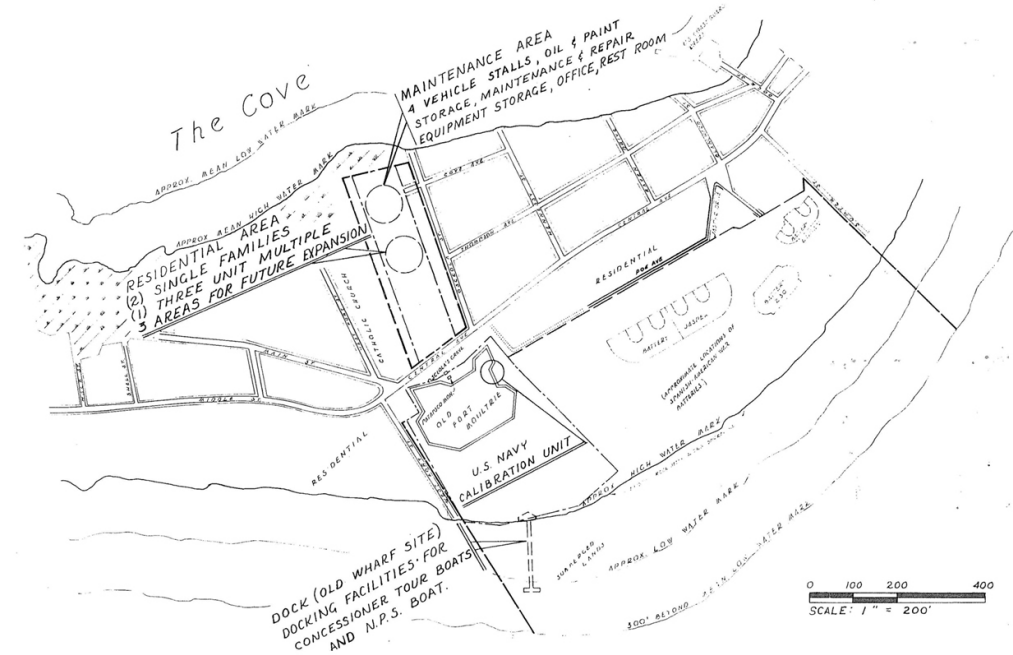
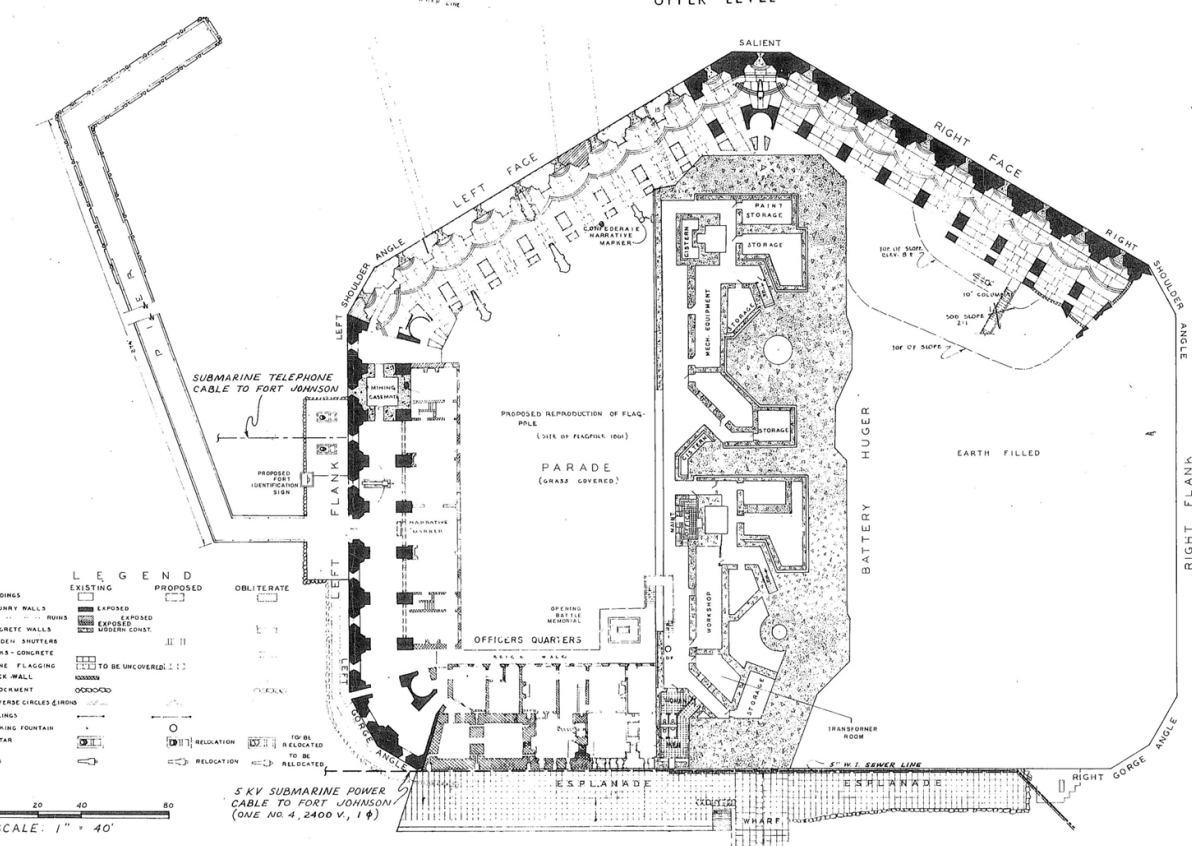
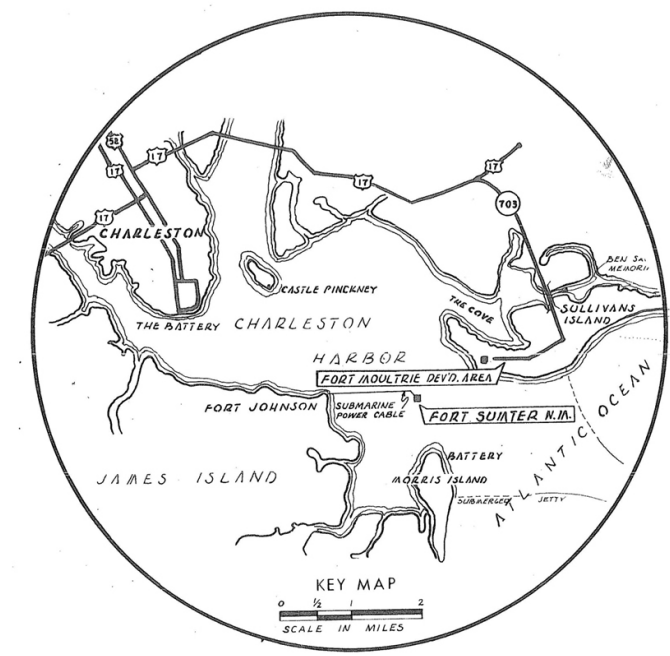
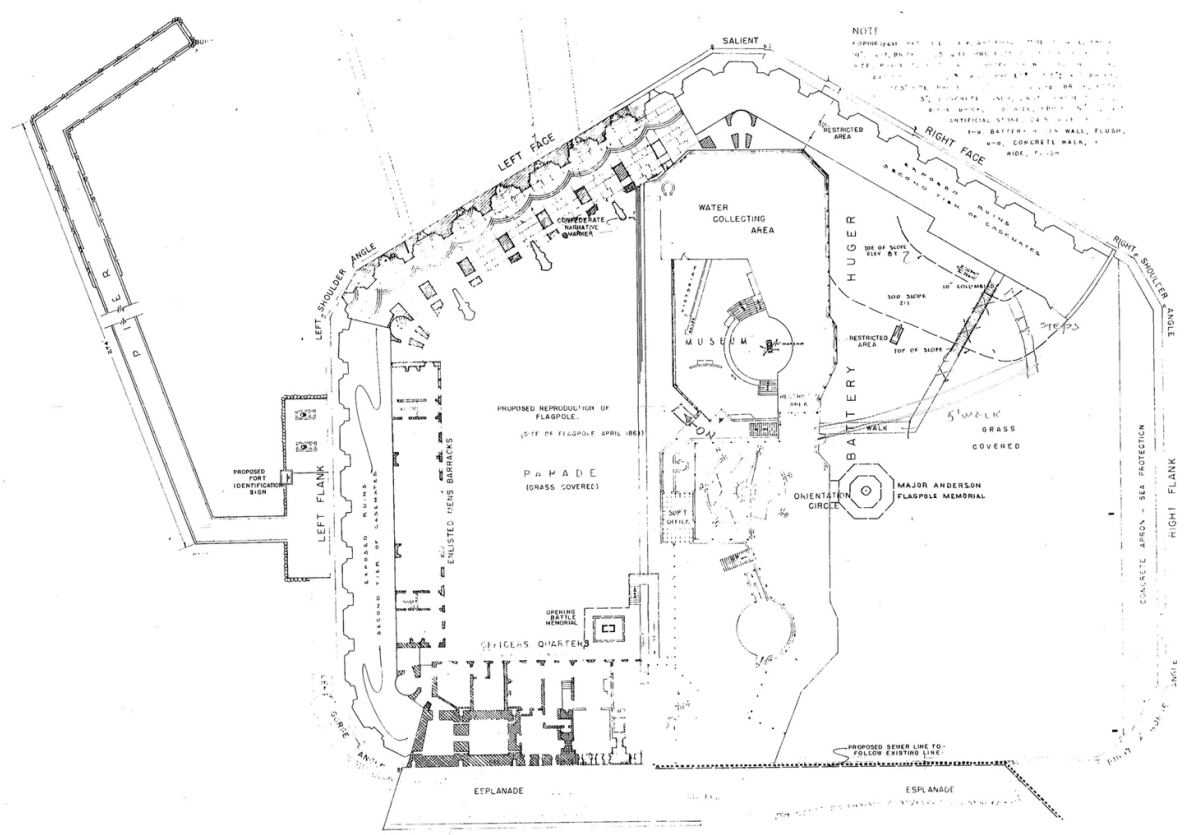
1958 plan of Fort Sumter showing areas to be excavated, original and new sites for Union Garrison Monument, locations of buried cisterns, slope locations, and dump sites for excavated material.  
(FOSU vertical file, Map Drawer C, Folder FS-7)











FORT MOULTRIE DEVELOPED AREA

FORT SUMTER DEVELOPED AREA

BASIC DATA

RECOMMENDED		DATE		REGION	
Superintendent				SOUTHEAST	
Chief EODC				PCP NO.	
Regional Director				SHEET 1 OF 1	
Assistant Director				DRAWING NO.	
APPROVED		Director		NM-SUM	
				3010	
				DATE MAY 65	

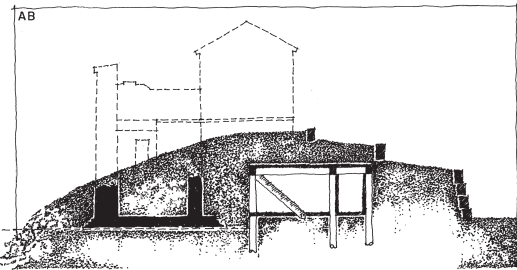
UNITED STATES	
DEPARTMENT OF THE INTERIOR	
NATIONAL PARK SERVICE	
DESIGN AND CONSTRUCTION	
PREPARED BY	
EASTERN	
OFFICE	
GENERAL DEVELOPMENT PLAN	
TITLE OF DRAWING	
PART OF THE MASTER PLAN	
LOCATION WITHIN PARK	
FORT SUMTER NATIONAL MONUMENT	
NAME OF PARK	

---

# Appendix H: HABS Drawings, 1991-92

This appendix contains 24 sheets of documentary drawings of the brick Fort Sumter prepared by the Historic American Buildings Survey (HABS) in 1991-92.



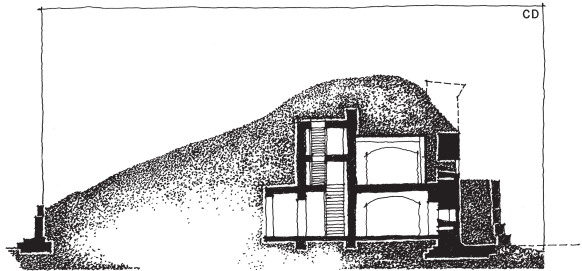


SECTION THROUGH GORGE WALL, 1865.

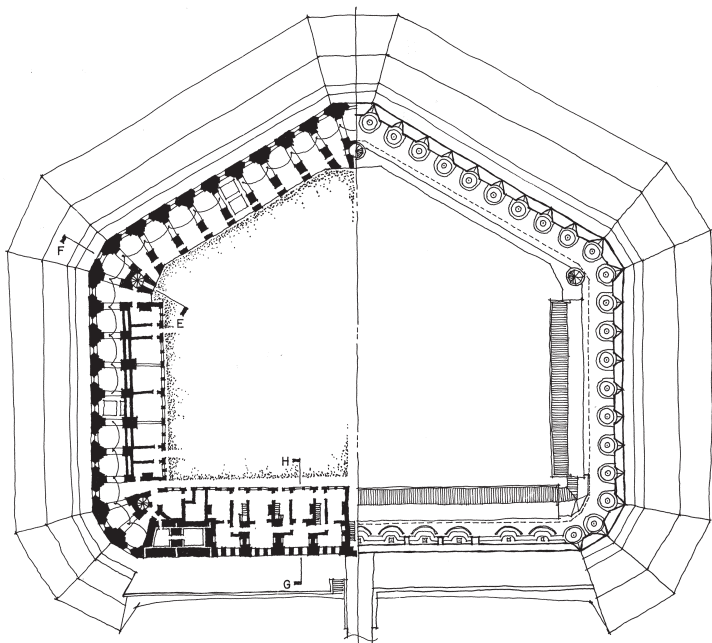
# FORT SUMTER

SOUTH CAROLINA

THE FORT SUMTER FIELD RECORDING PROJECT WAS UNDERTAKEN BY THE HABS/HAER DIVISION, ROBERT J. KAPSCH, CHIEF; AND WAS DIRECTED BY JOSEPH D. BALACHOWSKI, HABS ARCHITECT, IN CONJUNCTION WITH THE NATIONAL PARK SERVICE - SOUTHEAST REGIONAL OFFICE AND FORT SUMTER NATIONAL MONUMENT. THE 1991 MEASURED DRAWINGS WERE PREPARED BY SUPERVISING ARCHITECT JAMES N. FERGUSON (UNIVERSITY OF FLORIDA), ARCHITECTURE TECHNICIANS RICHARD S. NAAB, FOREMAN (THE CATHOLIC UNIVERSITY OF AMERICA), PETER STEHRER (HTBLA-KREMS, AUSTRIA--US/ICOMOS), EDWARD A. STORK (SANTA CLARA UNIVERSITY) AND THOMAS W. WILLIAMS (AUBURN UNIVERSITY).

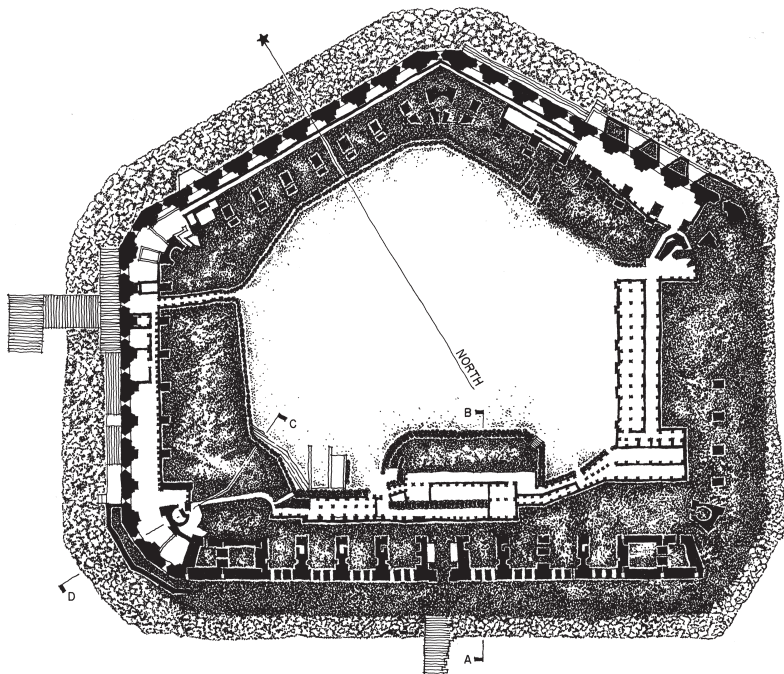


SECTION THROUGH LEFT GORGE ANGLE, 1865.



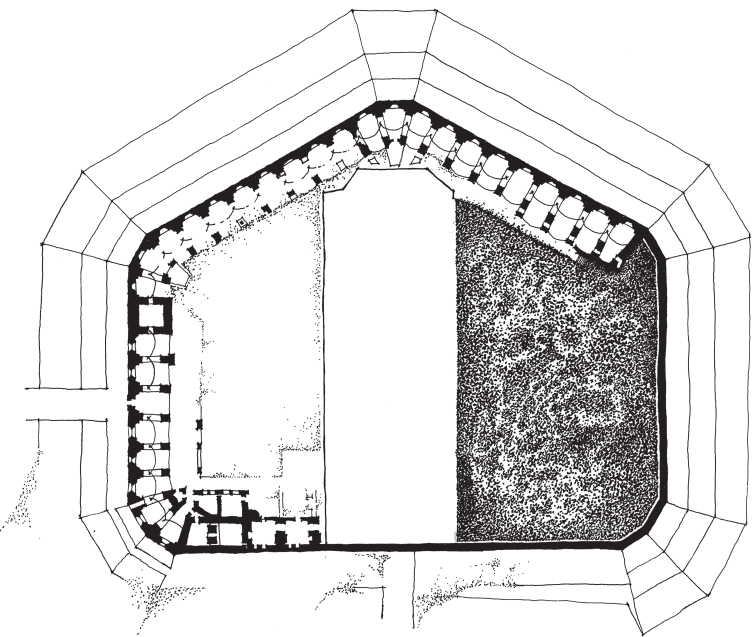
1860

ALTHOUGH NEVER FULLY COMPLETED THE PLAN REFLECTS THE APPEARANCE OF THE FORT PRIOR TO THE CIVIL WAR SHOWING FIRST TIER CASEMATES AND THIRD TIER BARBETTES. THE WAR COMMENCED IN 1861.



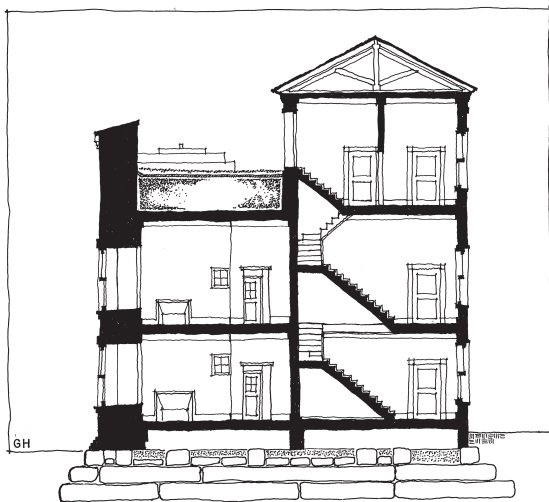
1865

AS WITNESSED BY A UNION SOLDIER AT THE TIME OF ITS CAPTURE ON FEBRUARY 18. THE DRAWING SHOWS THE SURVIVING WALLS, CASEMATES, FOUNDATIONS OF OFFICERS' QUARTERS AND EARTH AND RUBBLE BERMS.

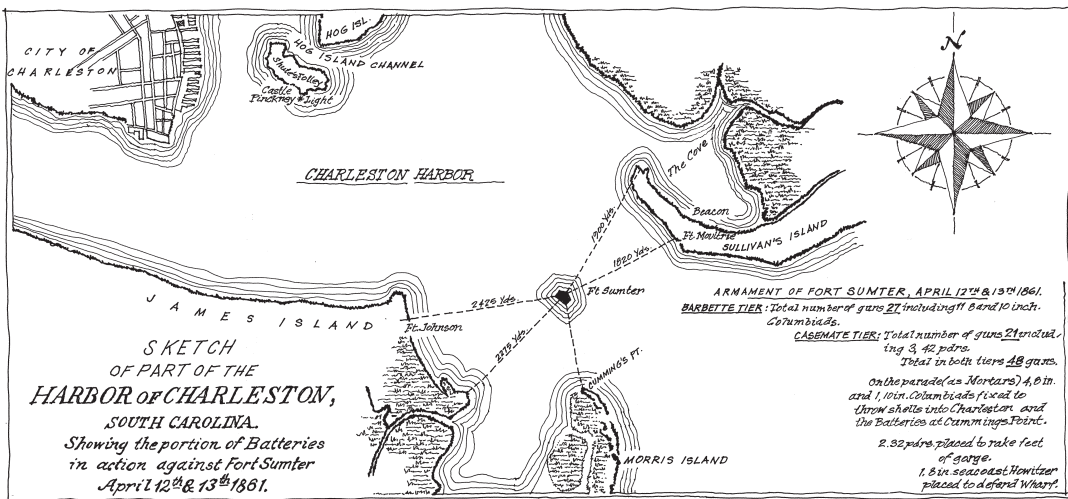


1991

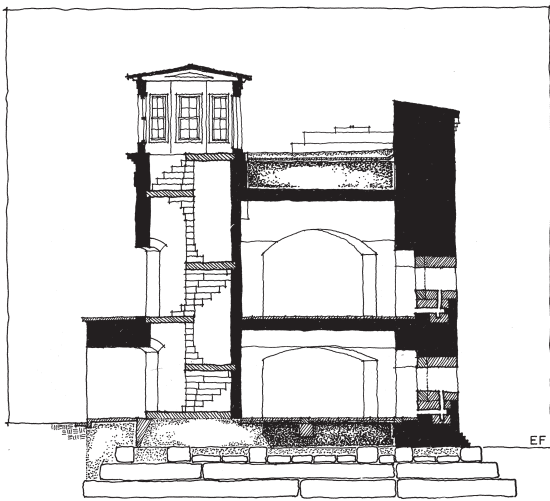
AS IT APPEARED AT THE TIME OF THE HABS FIELD RECORDING PROJECT, JUNE 10 - AUGUST 30, SHOWING EXISTING CONDITIONS AND THE OUTLINE OF BATTERY HUGER, BUILT AT THE TIME OF THE SPANISH-AMERICAN WAR.



SECTION THROUGH GORGE WALL AND OFFICERS QUARTERS, 1860.



AT THE TIME OF ITS CAPTURE BY THE CONFEDERATE ARMY.

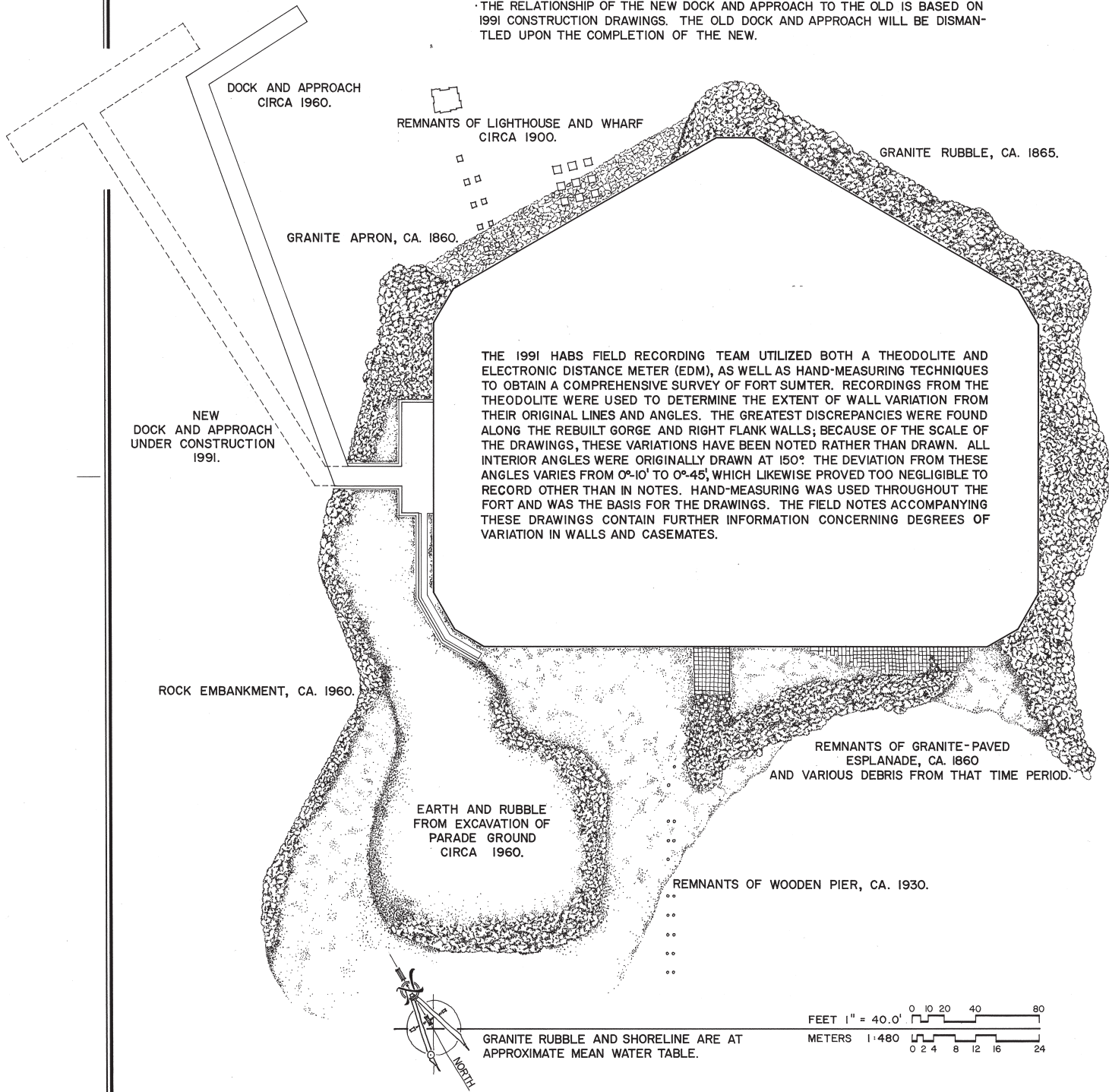


SECTION THROUGH LEFT SHOULDER ANGLE, 1860.



# SITE PLAN

REMNANTS OF FORMER STRUCTURES VERIFIED BY 1928 AND 1969 SURVEYS PREPARED OF FORT SUMTER.  
THE RELATIONSHIP OF THE NEW DOCK AND APPROACH TO THE OLD IS BASED ON 1991 CONSTRUCTION DRAWINGS. THE OLD DOCK AND APPROACH WILL BE DISMANTLED UPON THE COMPLETION OF THE NEW.



# HISTORY

FORT SUMTER IS ONE OF A SERIES OF COASTAL FORTIFICATIONS BUILT BY THE UNITED STATES AFTER THE WAR OF 1812. PLANS FOR THE FORT WERE DRAWN UP IN 1827 AND ADOPTED ON DECEMBER 5, 1828. CONSTRUCTION OF A HOLLOW PENTAGONAL ROCK "MOLE", TWO FEET ABOVE WATER BEGAN SHORTLY THEREAFTER ON A SHOAL NEAR THE MOUTH OF CHARLESTON HARBOR. THE FORT WAS NAMED IN HONOR OF BRIGADIER GENERAL THOMAS SUMTER, COMMANDER OF THE SOUTH CAROLINA MILITIA DURING THE REVOLUTION.

CONSTRUCTION CEASED, HOWEVER, WHEN IT WAS DISCOVERED THAT NO CLEAR TITLE EXISTED TO THE LAND UPON WHICH THE FORT WAS BEING BUILT. IN NOVEMBER 1841, CONSTRUCTION RESUMED UNDER CAPTAIN A.H. BOWMAN WHO MADE SEVERAL CHANGES TO THE ORIGINAL PLANS. INSTEAD OF A "GRILLAGE OF CONTINUOUS SQUARE TIMBERS" HE CALLED FOR A GRANITE FOUNDATION ATOP THE ROCK MASS. TO MEET THE REQUIREMENT OF 10,000 TONS OF GRANITE AND 60,000 TONS OF ROCK, MUCH OF THESE MATERIALS WERE BROUGHT IN FROM THE NORTH. THE BRICKS WERE PRIMARILY MANUFACTURED LOCALLY; OYSTER SHELLS WERE MIXED WITH CONCRETE FOR FILL BETWEEN THE BRICK WALLS. BY 1860, THE OUTWARD APPEARANCE OF THE FORT WAS FORMIDABLE: ITS THREE TIERS ROSE NEARLY 50 FEET ABOVE LOW WATER. HOWEVER, MUCH OF THE INTERIOR REMAINED INCOMPLETE; THE BARRACKS AND OFFICERS' QUARTERS WERE TENABLE, BUT ONLY 15 OF 135 GUNS HAD BEEN SET IN PLACE.

ON DECEMBER 20, 1860, TWO COMPANIES OF THE FIRST U.S. ARTILLERY UNDER MAJOR ROBERT ANDERSON OCCUPIED THE FORT. TO CHARLESTONIANS THIS WAS SEEN AS AN ACT OF AGGRESSION, COMING ON THE DAY SOUTH CAROLINA HAD SECEDED FROM THE UNION. CHARLESTON RESIDENTS CALLED FOR THE TAKING OF THE FORT. BUT THE FIRST SHOT OF THE CIVIL WAR DID NOT RING OUT OVER FORT SUMTER UNTIL APRIL 12, 1861; 34 HOURS LATER THE FORT FELL INTO CONFEDERATE HANDS.

FROM 1861-65, FORT SUMTER UNDERWENT A SERIES OF BOMBARDMENTS. POSSESSING A "MORBID APPETITE" FOR THE CAPTURE OF CHARLESTON, THE UNION ARMY ENTRENCHED ITSELF ON JAMES AND MORRIS ISLANDS. THE THREE-TIERED WALLS WERE GREATLY REDUCED BUT THE WALLS WERE SHORED UP WITH RUBBLE AND EARTH BERMS, COTTON BAILS, GABIONS OF WICKERED BASKETS FILLED WITH SAND AND PALMETTO LOGS, AND THE FORT BECAME EVEN STRONGER THAN BEFORE. IN AUGUST, 1863, THE "SWAMP ANGEL"--A MASSIVE PARROTT RIFLE CAPABLE OF FIRING 200-POUND SHELLS, ARRIVED, AND UNION GENERAL QUINCY A. GILMORE LEVELED HIS SIGHTS ON THE FORT WITH GREATER ABANDON. AFTER A PROLONGED BOMBARDMENT HE WAS CONFIDENT THAT IT HAD BEEN REDUCED TO A "SHAPELESS AND HARMLESS MASS OF RUINS".

FORT SUMTER HAD NOT FALLEN. IT CONTINUED TO BE AN IRRITATING COUNTERPOINT TO UNION VICTORIES THROUGHOUT THE SOUTH. IT WAS NEVER CAPTURED

AND HELD AS GENERAL GILMORE SO DESPERATELY WANTED. ON FEBRUARY 18, 1865, THE MORNING AFTER GENERAL SHERMAN MARCHED INTO COLUMBIA, SOUTH CAROLINA, THE FORT WAS QUIETLY EVACUATED. ON THAT DAY, A UNION DRAFTSMAN CAPTURED IN VIVID DETAIL A FORT BOLSTERED BY DEBRIS AND VIRTUALLY IMPREGNABLE DESPITE ITS BELEAGUERED OUTWARD APPEARANCE.

IRONICALLY, GENERAL GILMORE WAS CHARGED WITH "CLEANING UP" THE FORT. THE OUTER WALLS OF THE GORGE AND RIGHT FLANK WERE PARTIALLY REBUILT FROM THEIR VESTIGIAL FOUNDATIONS. OTHER WALLS, LEFT JAGGED AFTER UNCEASING BOMBARDMENT, WERE LEVELLED TO HALF THEIR ORIGINAL HEIGHT. THROUGH THE LEFT FLANK CASEMATE A NEW SALLY PORT WAS CONSTRUCTED. TEN GUNS WERE MOUNTED "EN BARBETTE" ON EARTH AND CONCRETE SUPPORTS WITHIN THE FORT ITSELF.

FOR THE NEXT 25 YEARS FORT SUMTER FELL INTO NEGLECT AND WAS ACTIVE ONLY AS A LIGHTHOUSE STATION. IN 1899, FEARING A POSSIBLE ASSAULT FROM SPAIN, THE U.S. ARMY "MODERNIZED" THE FORT BY CONSTRUCTING THE MASSIVE CONCRETE BATTERY HUGER AND MOUNTING TWO GUNS ATOP THE BULWARK.

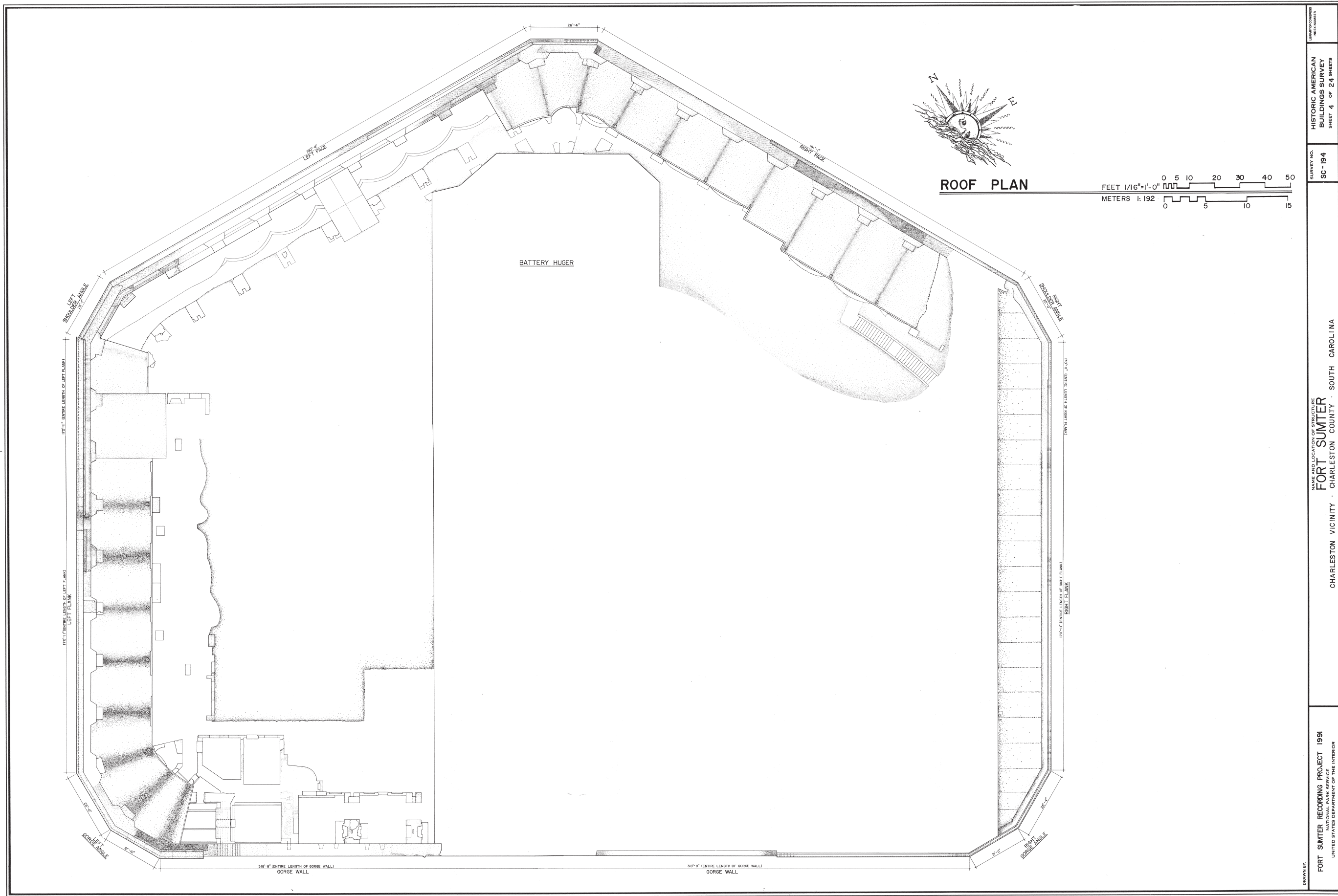
ON JULY 12, 1948, FORT SUMTER WAS DECLARED A NATIONAL MONUMENT AND TRANSFERRED FROM THE WAR DEPARTMENT TO THE NATIONAL PARK SERVICE. SINCE THEN IT HAS UNDERGONE ONLY MINOR MODIFICATIONS. ARCHAEOLOGICAL EXCAVATION HAS REVEALED THE RIGHT FACE CASEMATES AND BARRACKS RUINS ALONG THE LEFT FLANK WALL.



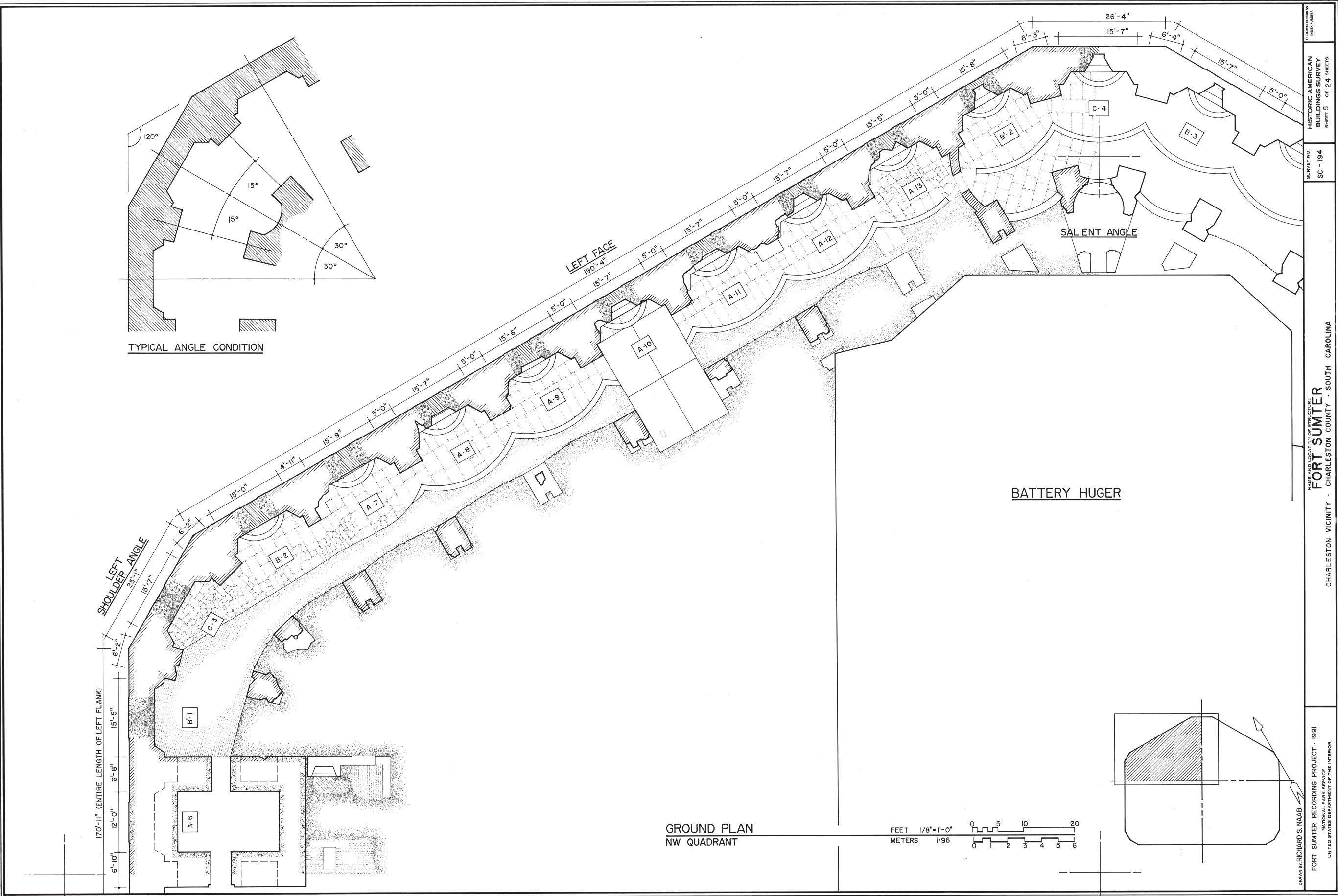
GABIONS USED TO SHORE UP WALLS.



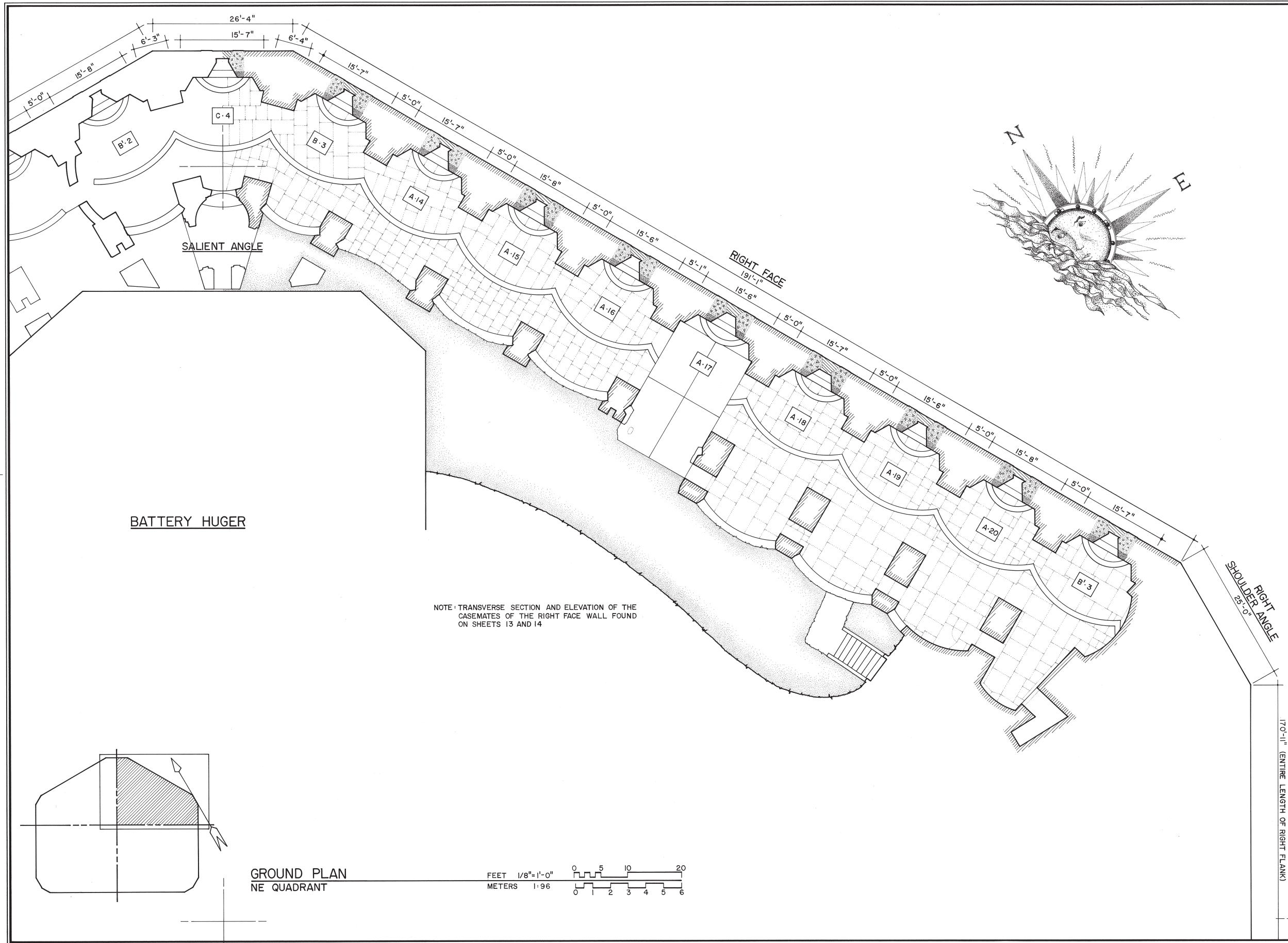












DRAWN BY: RICHARD S. NAAB

FORT SUMTER RECORDING PROJECT 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
**FORT SUMTER**  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

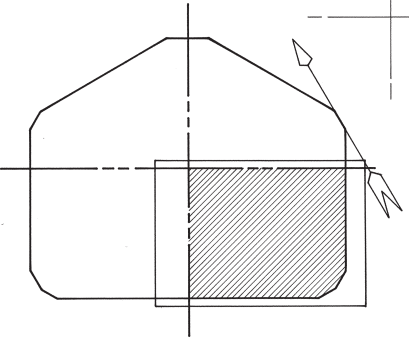
SURVEY NO.  
SC-194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 6 OF 24 SHEETS

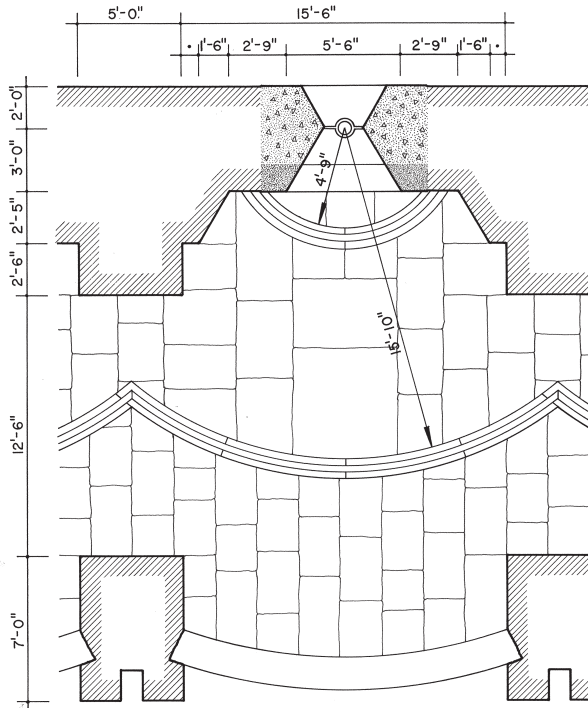
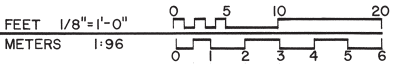
UNIVERSITY OF CONCORD  
INDEX NUMBER

IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING

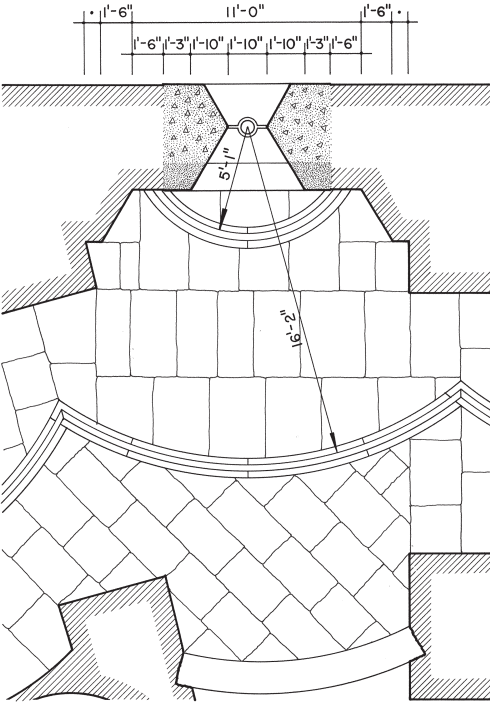




GROUND PLAN  
SE QUADRANT

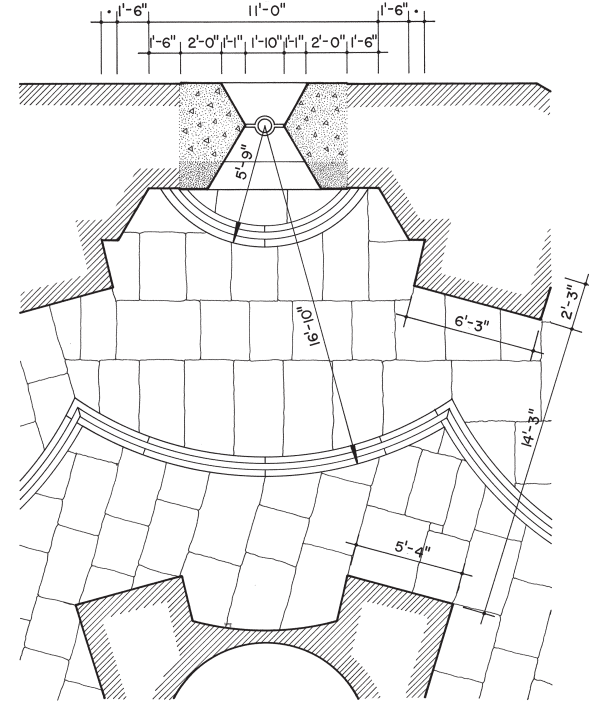


TYPE · A

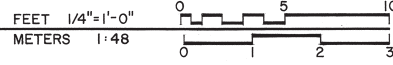


TYPE · B

TYPE B' IS THE MIRROR IMAGE OF TYPE B



TYPE · C



**TYPICAL CASEMATE PLANS**  
NOTE: THE DIMENSION MARKED WITH A DOT (·) VARIES BETWEEN 9" AND 12"  
· SEE SHEETS 17, 18, AND 19 FOR AXONOMETRICS AND ELEVATIONS OF EMBRASURES OF TYPICAL CASEMATES  
· SEE SHEETS 20 AND 21 FOR FURTHER DRAWINGS INDICATING METHODS AND MATERIALS OF CONSTRUCTION OF CASEMATES

170'-11" (ENTIRE LENGTH OF RIGHT FLANK)  
RIGHT FLANK

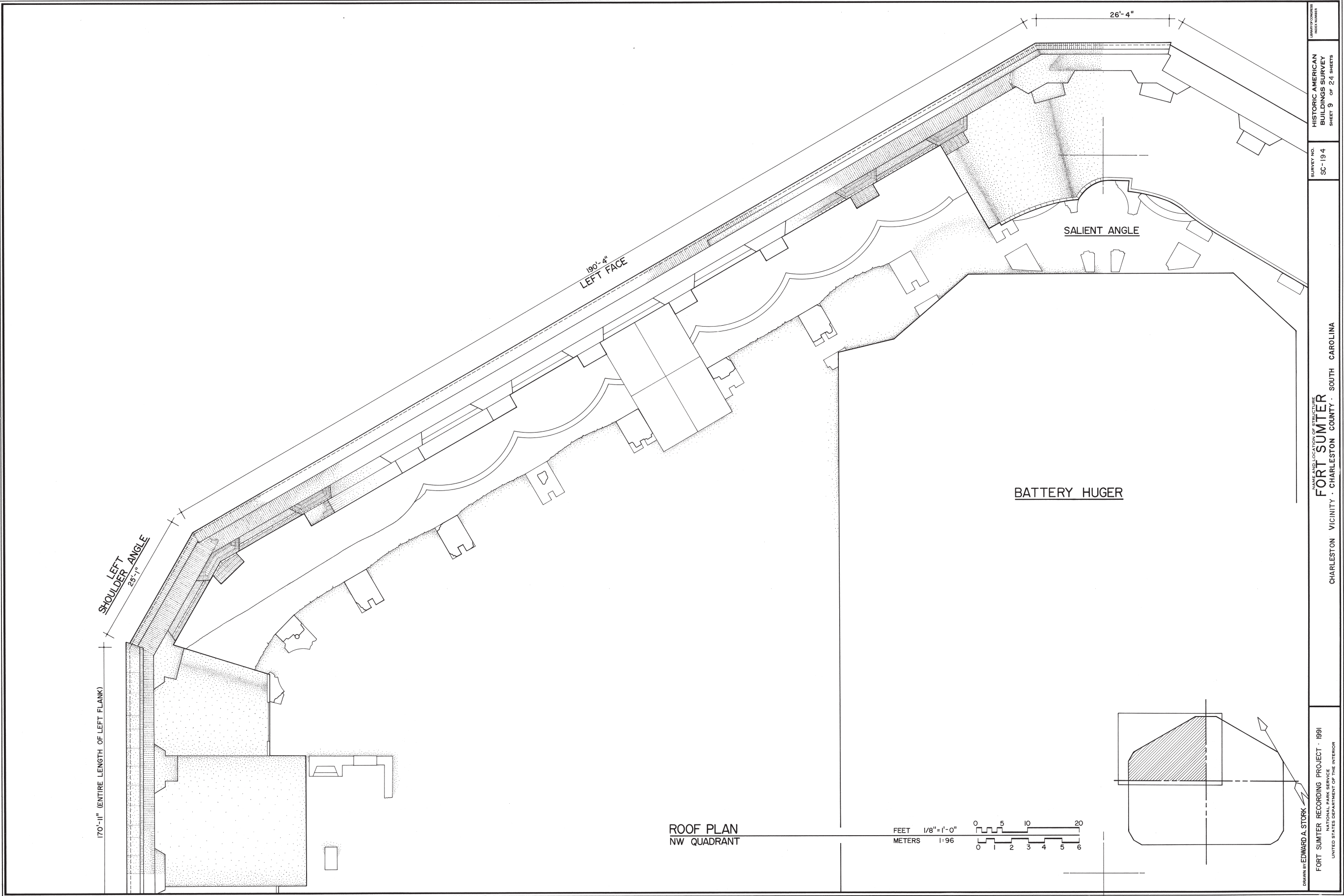
21'-11"  
26'-4"  
RIGHT GORGE ANGLE

318'-8" (ENTIRE LENGTH OF GORGE WALL)  
GORGE WALL

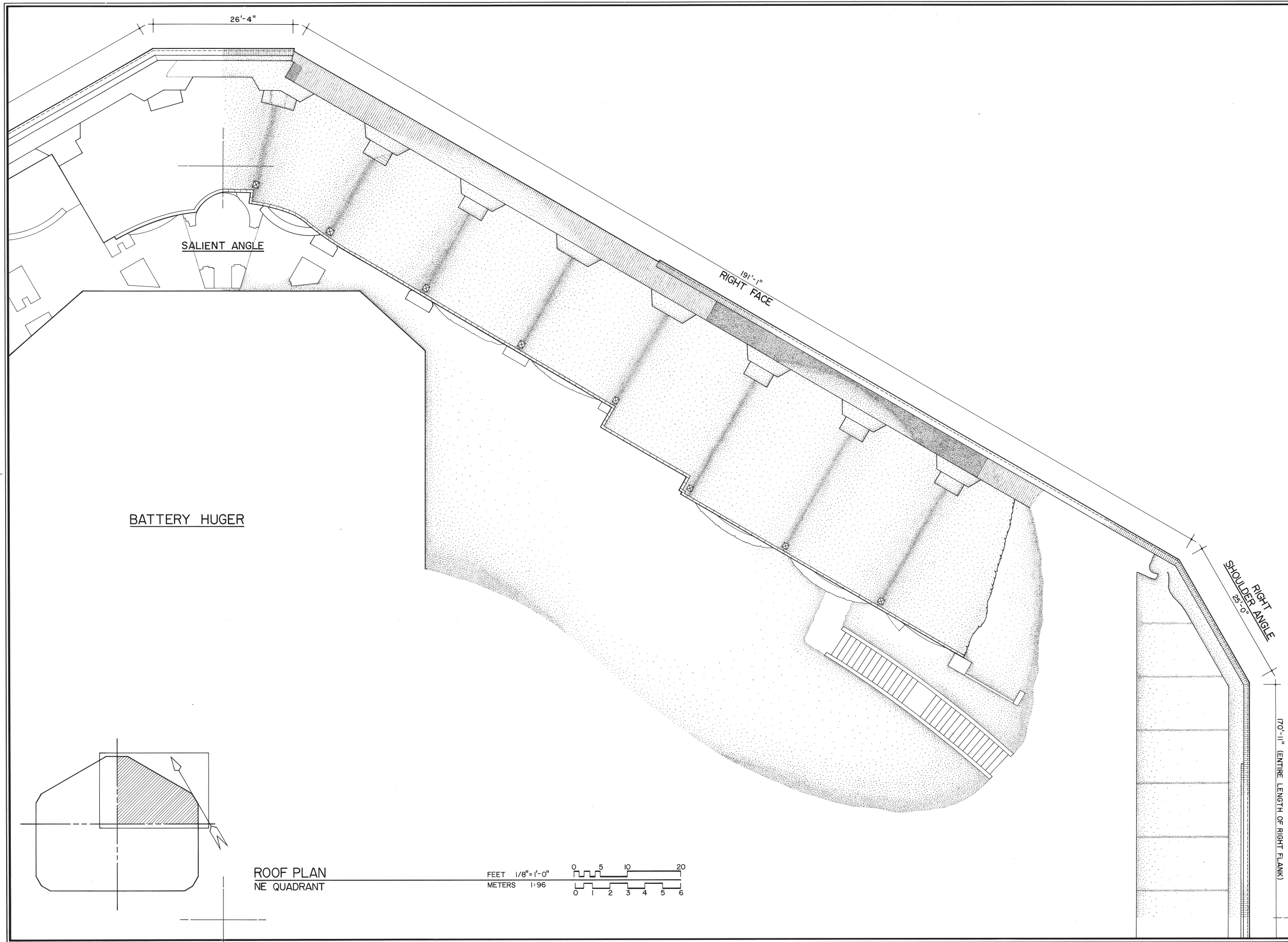












DRAWN BY: EDWARD A. STORK

FORT SUMTER RECORDING PROJECT - 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
**FORT SUMTER**  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

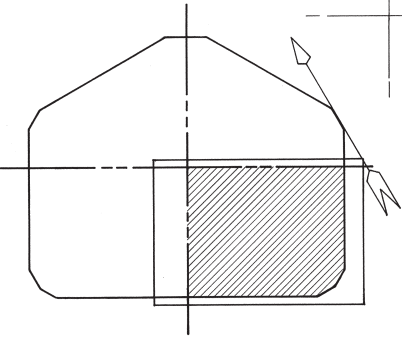
SURVEY NO.  
SC-194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 10 OF 24 SHEETS

LIBRARY OF CONGRESS  
BUILDING NUMBER

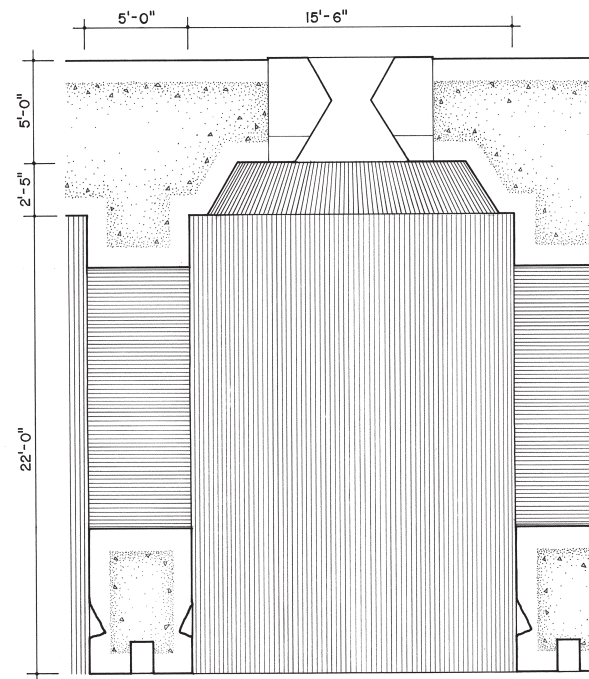
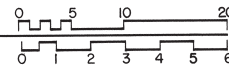
IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING



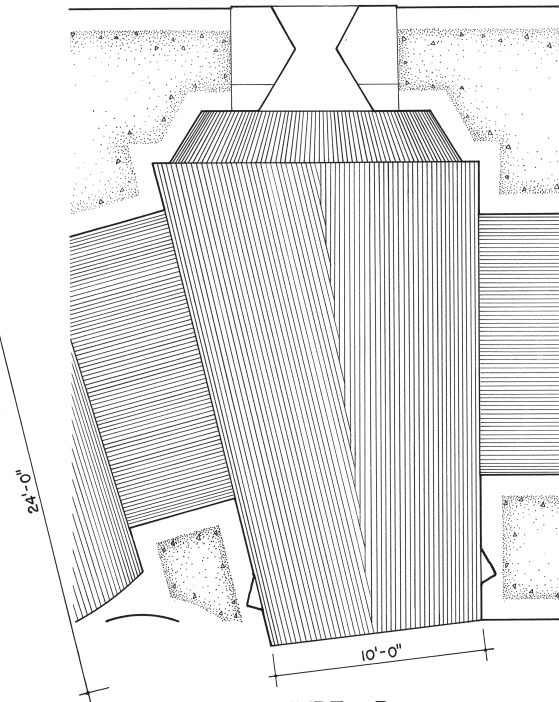


ROOF PLAN  
SE QUADRANT

FEET 1/8"=1'-0"  
METERS 1:96

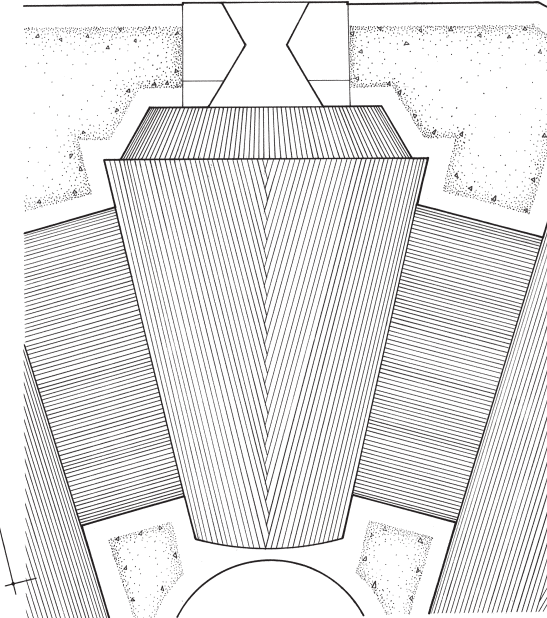


TYPE · A



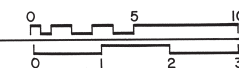
TYPE · B

TYPE B' IS THE MIRROR IMAGE OF TYPE B



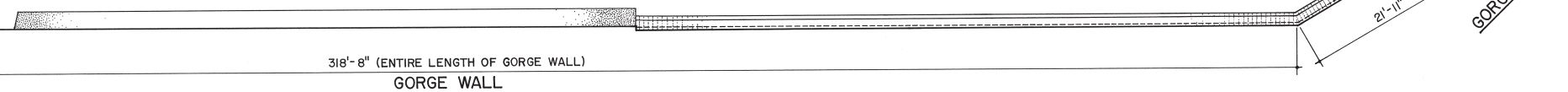
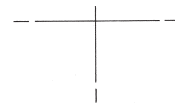
TYPE · C

FEET 1/4"=1'-0"  
METERS 1:48



TYPICAL REFLECTED CEILING PLANS OF CASEMATES

NOTE: DIMENSIONS WILL VARY FROM ONE CASEMATE TO ANOTHER,  
PLEASE CONSULT FIELD NOTES FOR SPECIFIC INFORMATION ON CASEMATES.



170'-11" (ENTIRE LENGTH OF RIGHT FLANK)  
RIGHT FLANK

DRAWN BY: PETER STEHRER

FORT SUMTER RECORDING PROJECT · 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
FORT SUMTER  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

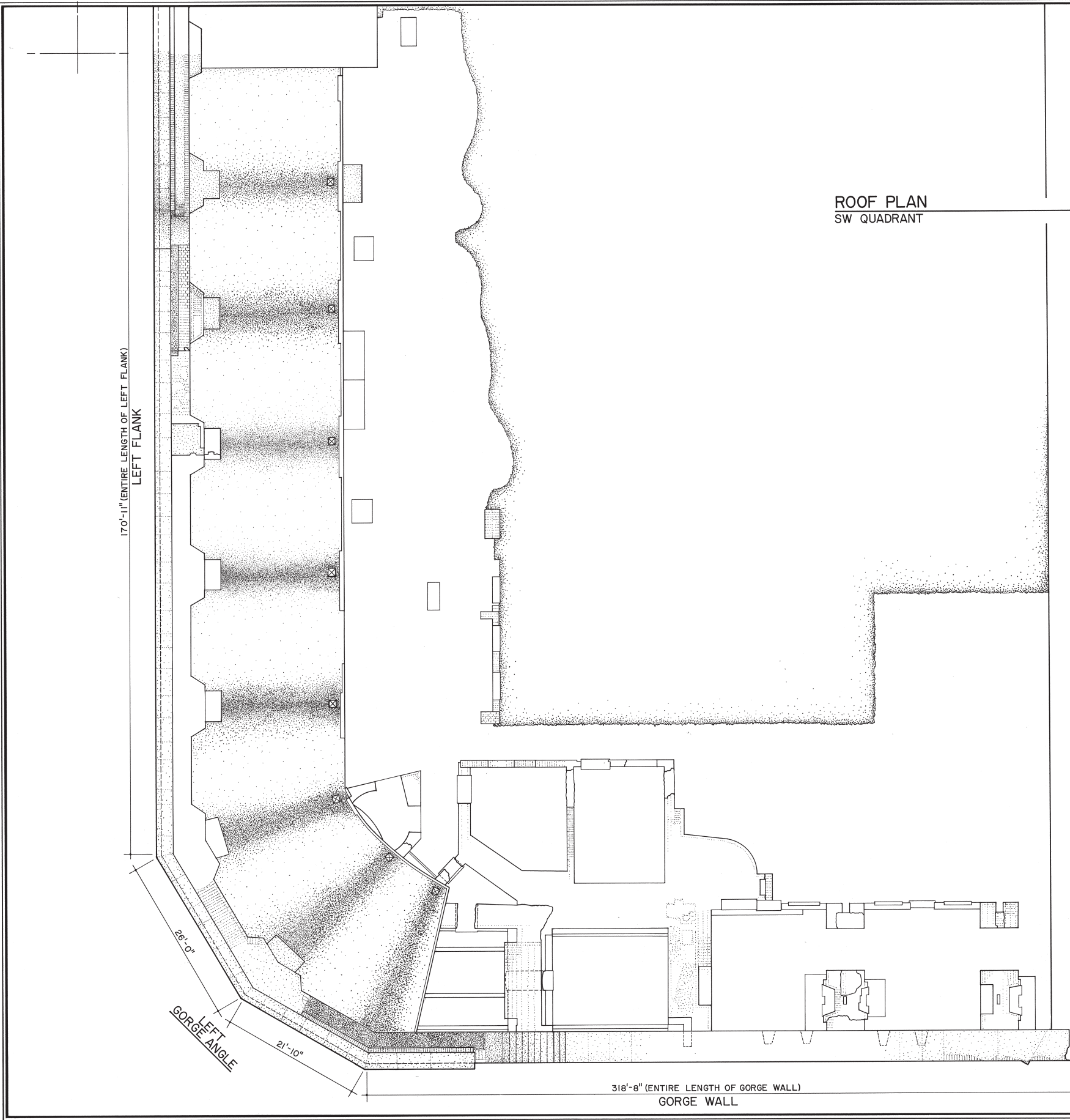
SURVEY NO.  
SC-194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 11 OF 24 SHEETS

LIBRARY OF CONGRESS  
PHOTODUPLICATION  
SERIES

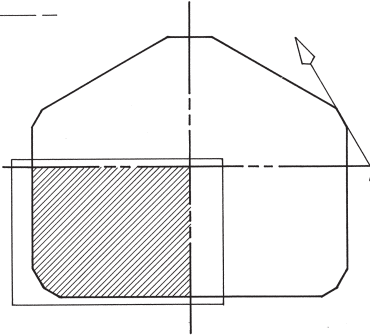
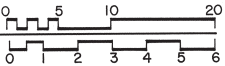
IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING



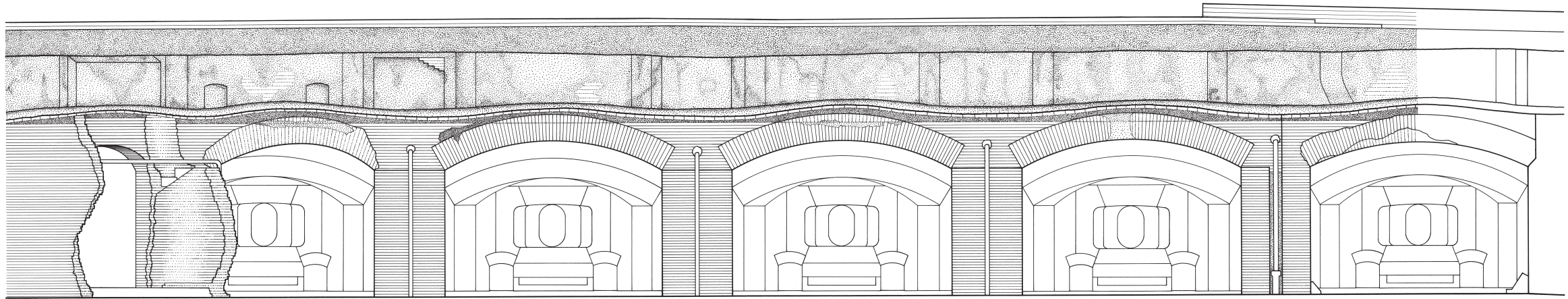


ROOF PLAN  
SW QUADRANT

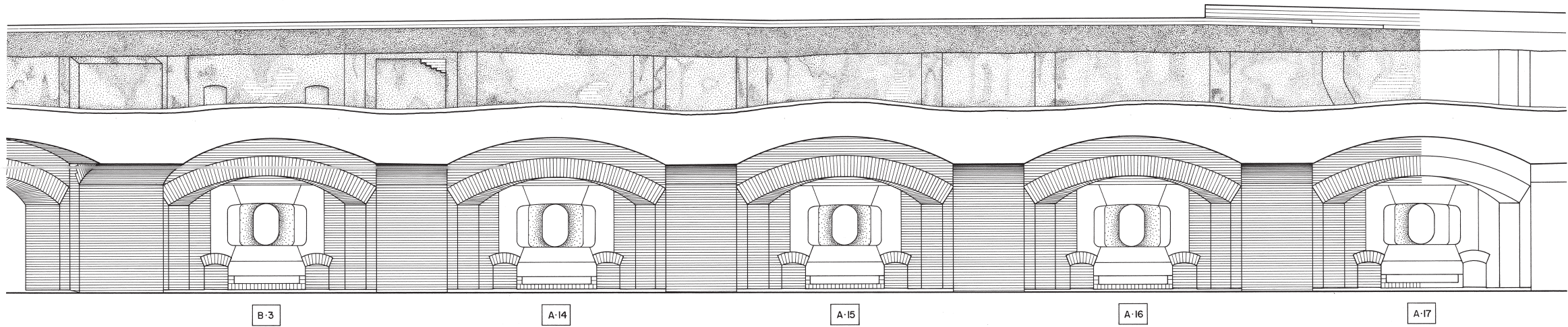
FEET 1/8"=1'-0"  
METERS 1:96



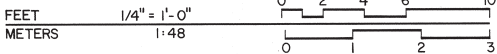




ELEVATION OF CASEMATES  
LEFT HALF OF RIGHT FACE WALL



SECTION THROUGH CASEMATES  
LEFT HALF OF RIGHT FACE WALL



DRAWN BY: EDWARD A. STORK

FORT SUMTER RECORDING PROJECT · 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
**FORT SUMTER**  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

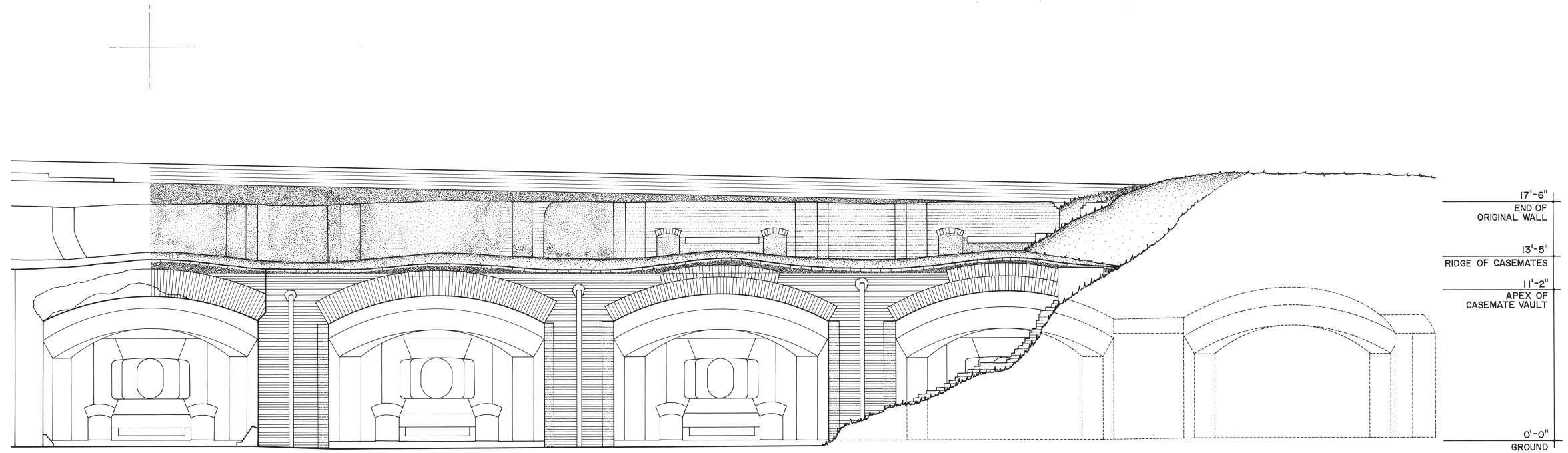
SURVEY NO.  
SC - 194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 13 OF 24 SHEETS

GRAPHIC NUMBER  
1

IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING

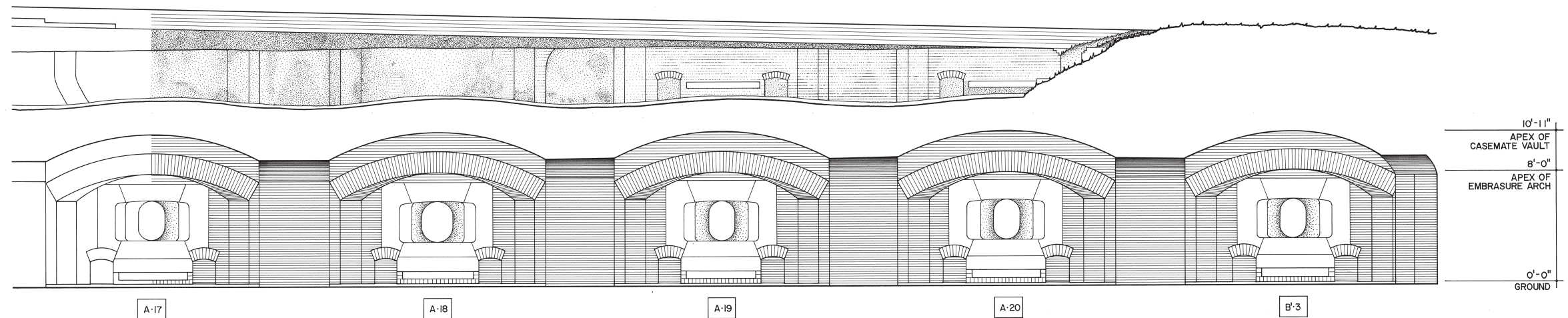




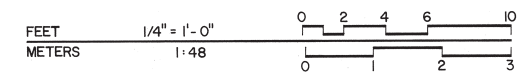
ELEVATION OF CASEMATES  
RIGHT HALF OF RIGHT FACE WALL

MATERIALS

BRICK	CASEMATES AND WALL
BRICK RUBBLE	ADDED PARAPET
CONCRETE	COVERING REMNANTS OF
	SECOND TIER WALL
BROWNSTONE	EMBRASURE CASING
GRANITE	LINTEL BELOW EMBRASURE



SECTION THROUGH CASEMATES  
RIGHT HALF OF RIGHT FACE WALL



DRAWN BY EDWARD A. STORK

FORT SUMTER RECORDING PROJECT · 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
**FORT SUMTER**  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

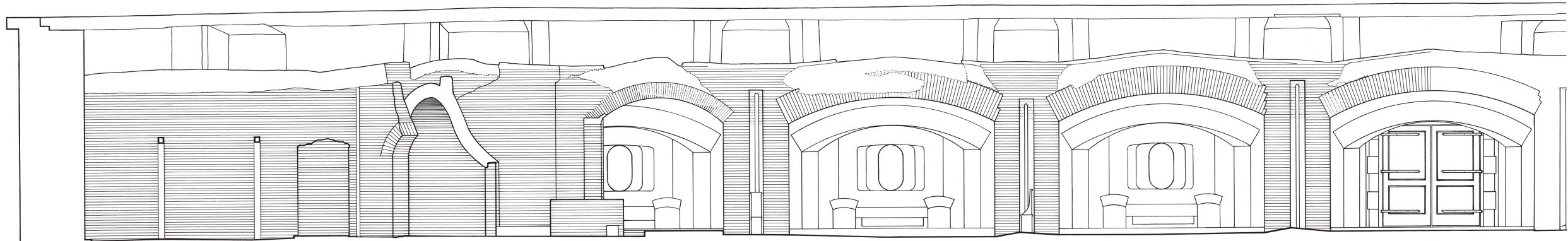
SURVEY NO.  
SC - 194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 14 OF 24 SHEETS

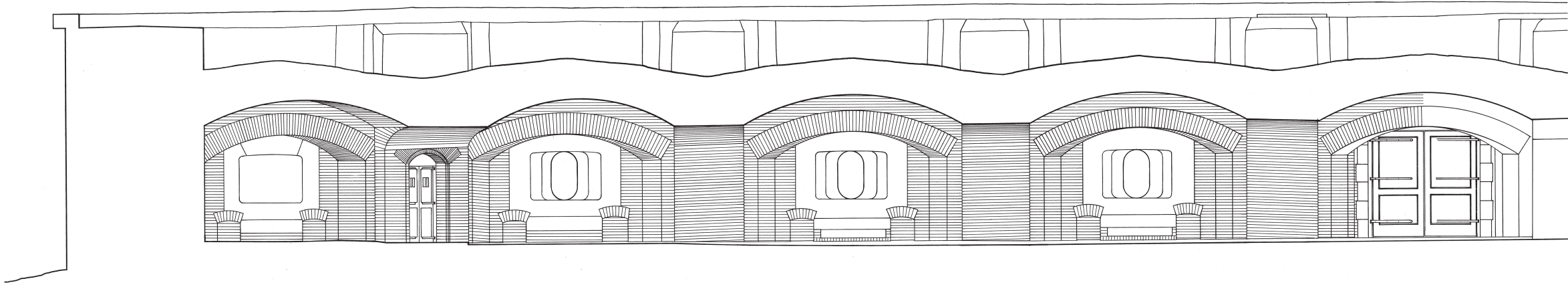
LIBRARY OF CONGRESS  
INDEX NUMBER

IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING

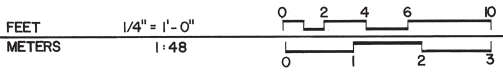




ELEVATION OF CASEMATES  
LEFT HALF OF LEFT FLANK WALL



SECTION THROUGH CASEMATES  
LEFT HALF OF LEFT FLANK WALL



DRAWN BY: THOMAS W. WILLIAMS

FORT SUMTER RECORDING PROJECT 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
**FORT SUMTER**  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

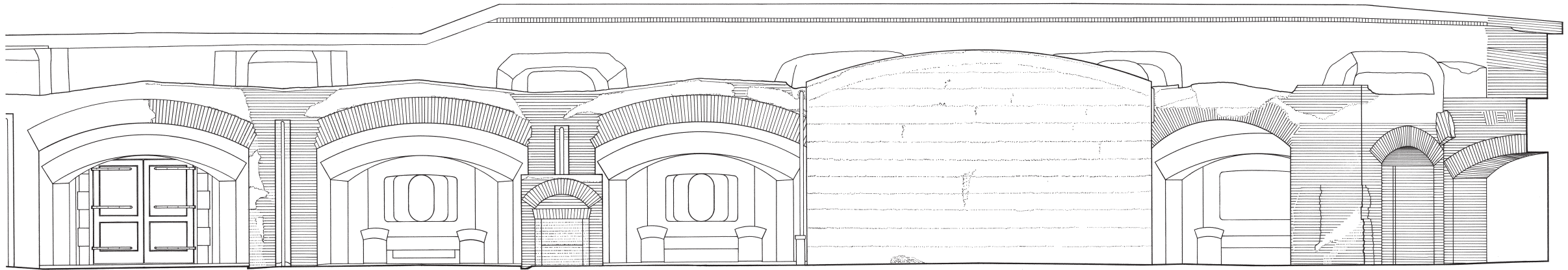
SURVEY NO.  
SC - 194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 15 OF 24 SHEETS

LIBRARY OF CONGRESS  
PHOTODUPLICATION SERVICE

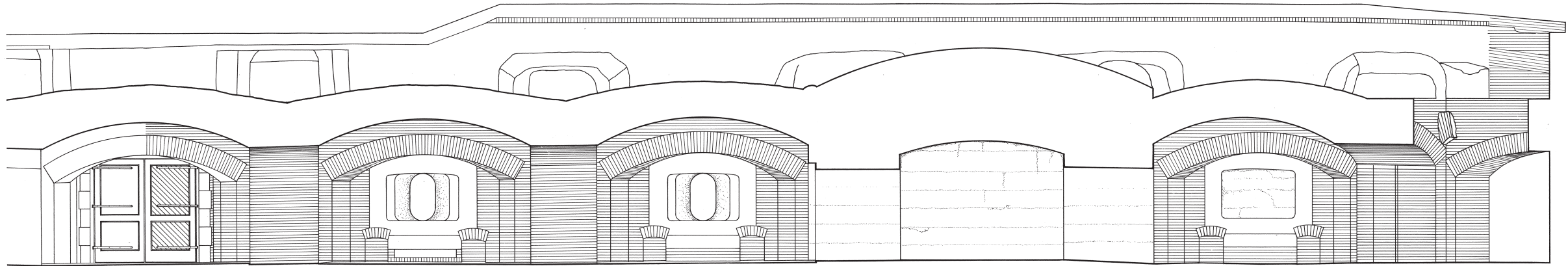
IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING



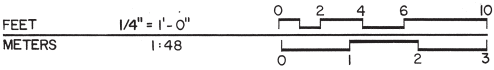


ELEVATION OF CASEMATES  
RIGHT HALF OF LEFT FLANK WALL

- MATERIALS
- |            |  |
|------------|--|
| BRICK      | CASEMATES, WALL AND<br>ADDED PARAPET     |
| CONCRETE   | COVERING REMNANTS OF<br>SECOND TIER WALL |
| BROWNSTONE | EMBRASURE CASING                         |
| GRANITE    | LINTEL BELOW EMBRASURE                   |



SECTION THROUGH CASEMATES  
RIGHT HALF OF LEFT FLANK WALL



DRAWN BY: THOMAS W. WILLIAMS

FORT SUMTER RECORDING PROJECT 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
FORT SUMTER  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

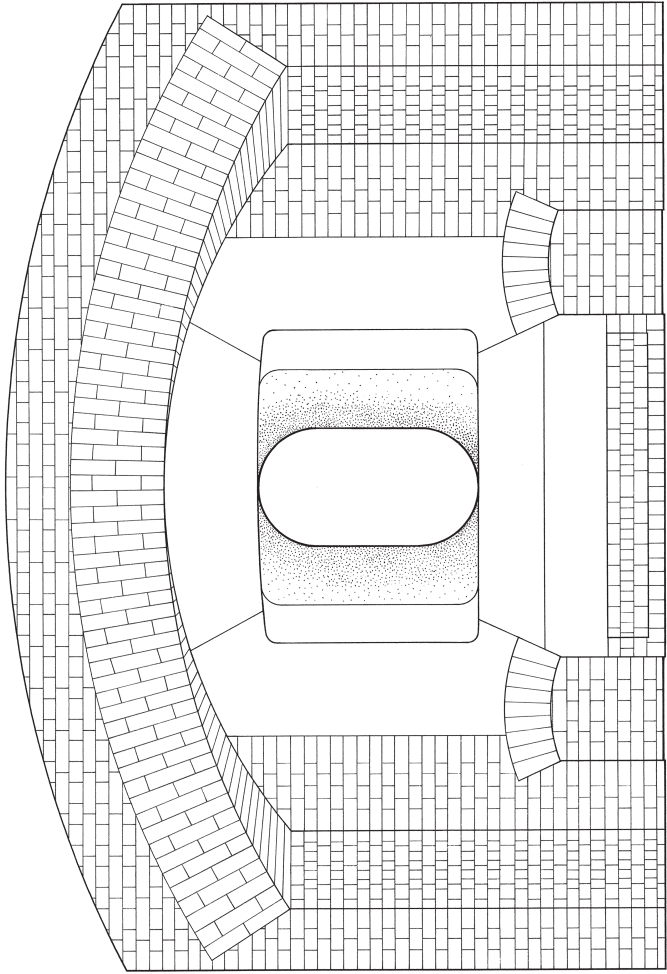
SURVEY NO.  
SC-194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 16 OF 24 SHEETS

LIBRARY OF CONGRESS  
INDEX NUMBER

IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING

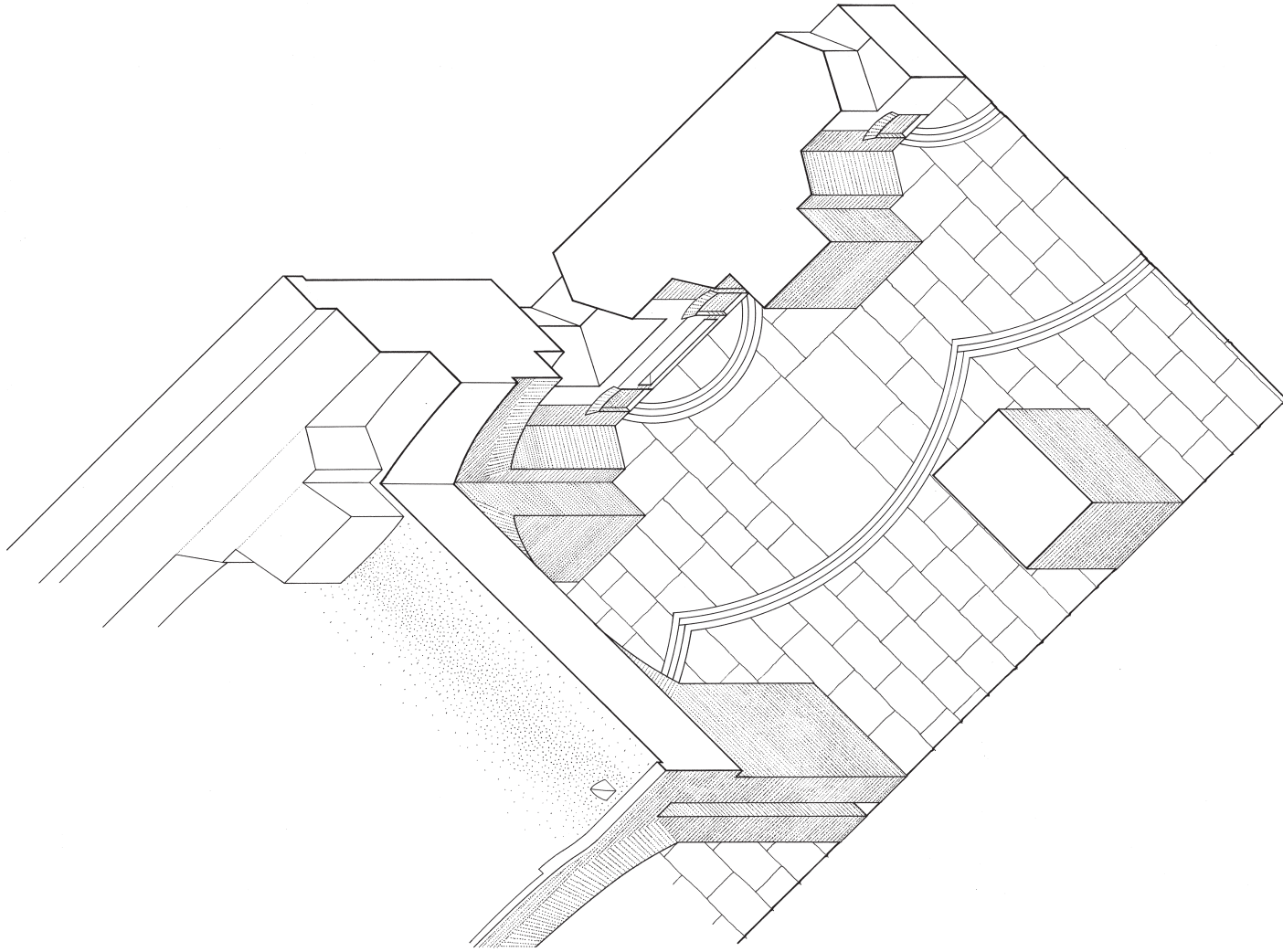




TYPICAL INTERIOR ELEVATION  
EMBRASURES OF LEFT FLANK CASEMATES

FEET 3/4"=1'-0"  
METERS 1/16

0 1 2 3  
0 0.1 0.5



CASEMATE TYPE A  
AXONOMETRIC

FEET 1/4"=1'-0"  
METERS 1/48

0 1 2 3 4 5 10  
0 1 2

DRAWN BY: THOMAS W. WILLIAMS

FORT SUMTER RECORDING PROJECT 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
FORT SUMTER  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

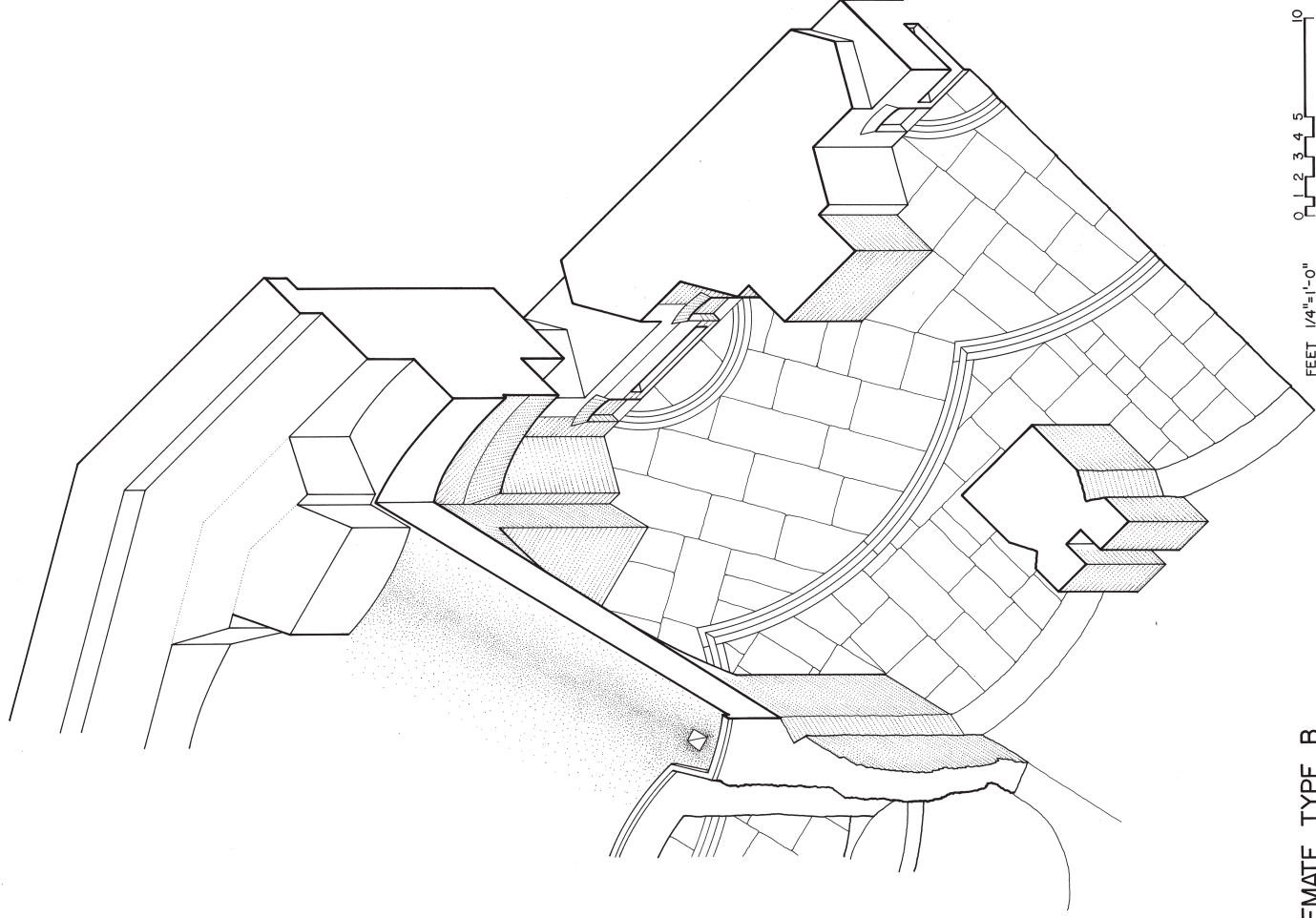
SURVEY NO.  
SC - 194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 17 OF 24 SHEETS

LIBRARY OF CONGRESS  
HIDE NUMBER

IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING





CASEMATE TYPE B  
AXONOMETRIC (SALIENT ANGLE)

FEET 1/4"=1'-0"  
METERS 1:48

0 1 2 3 4 5 10  
0 1 2 3

DRAWN BY RICHARD S. NAAB

FORT SUMTER RECORDING PROJECT 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
**FORT SUMTER**  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

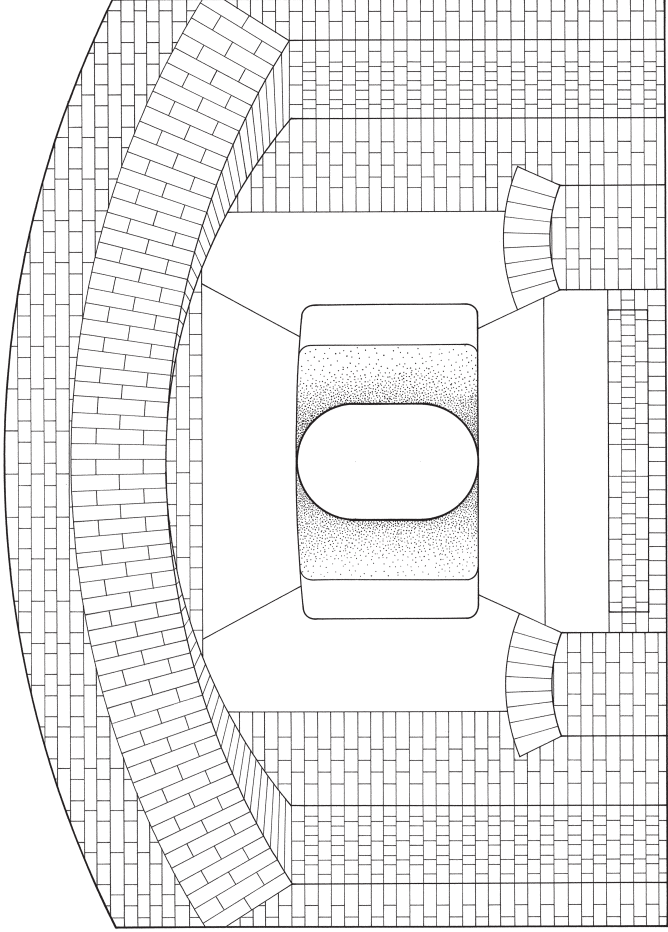
SURVEY NO.  
SC-194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 18 OF 24 SHEETS

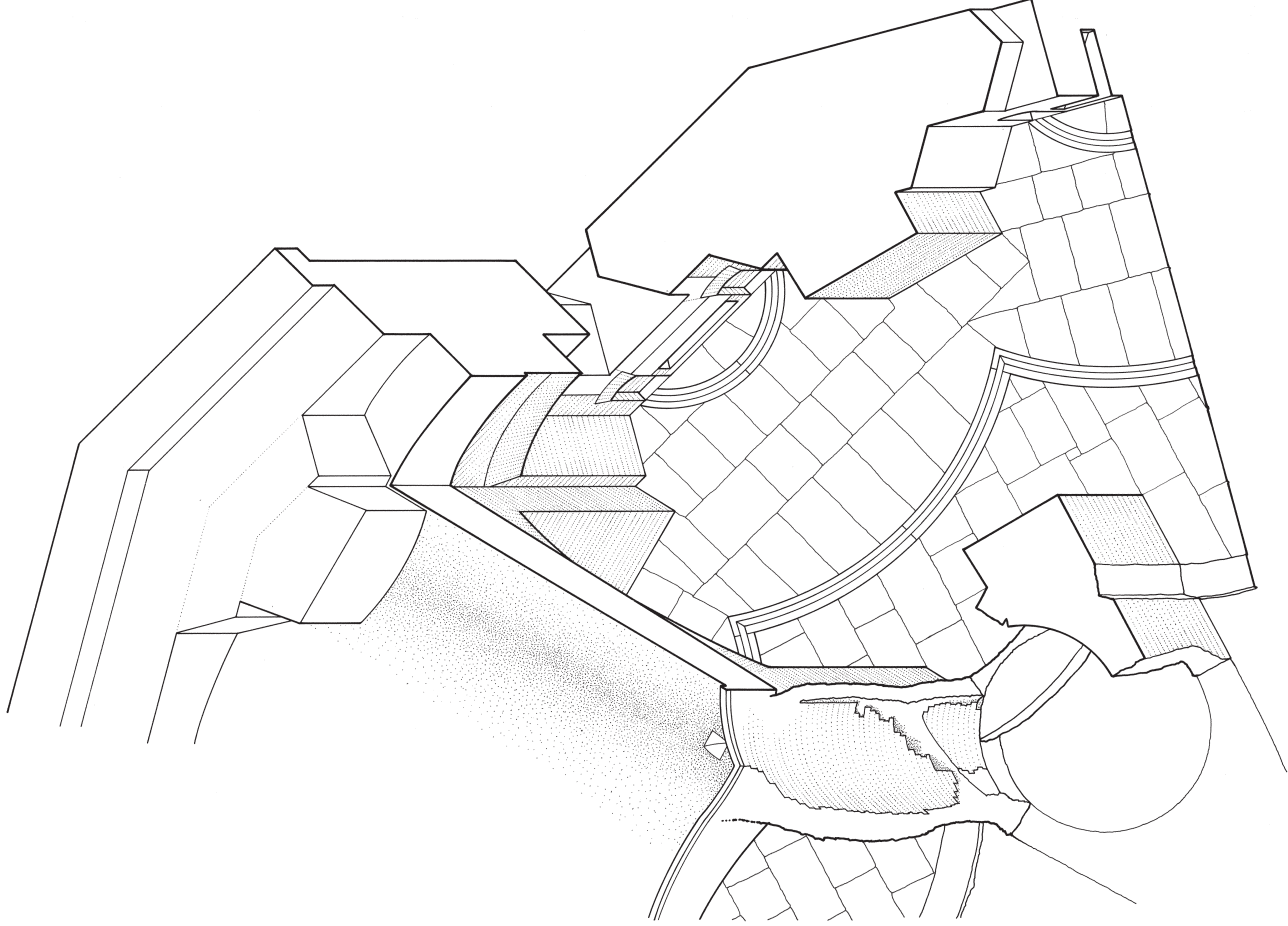
LIBRARY OF CONGRESS  
PHOTODUPLICATION SERVICE

IF REPRODUCED PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING





TYPICAL INTERIOR ELEVATION  
EMBRASURES OF LEFT & RIGHT FACE CASEMATES



CASEMATE TYPE C  
AXONOMETRIC (SALIENT ANGLE)



DRAWN BY RICHARD S. NAAB

FORT SUMTER RECORDING PROJECT 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE  
FORT SUMTER  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

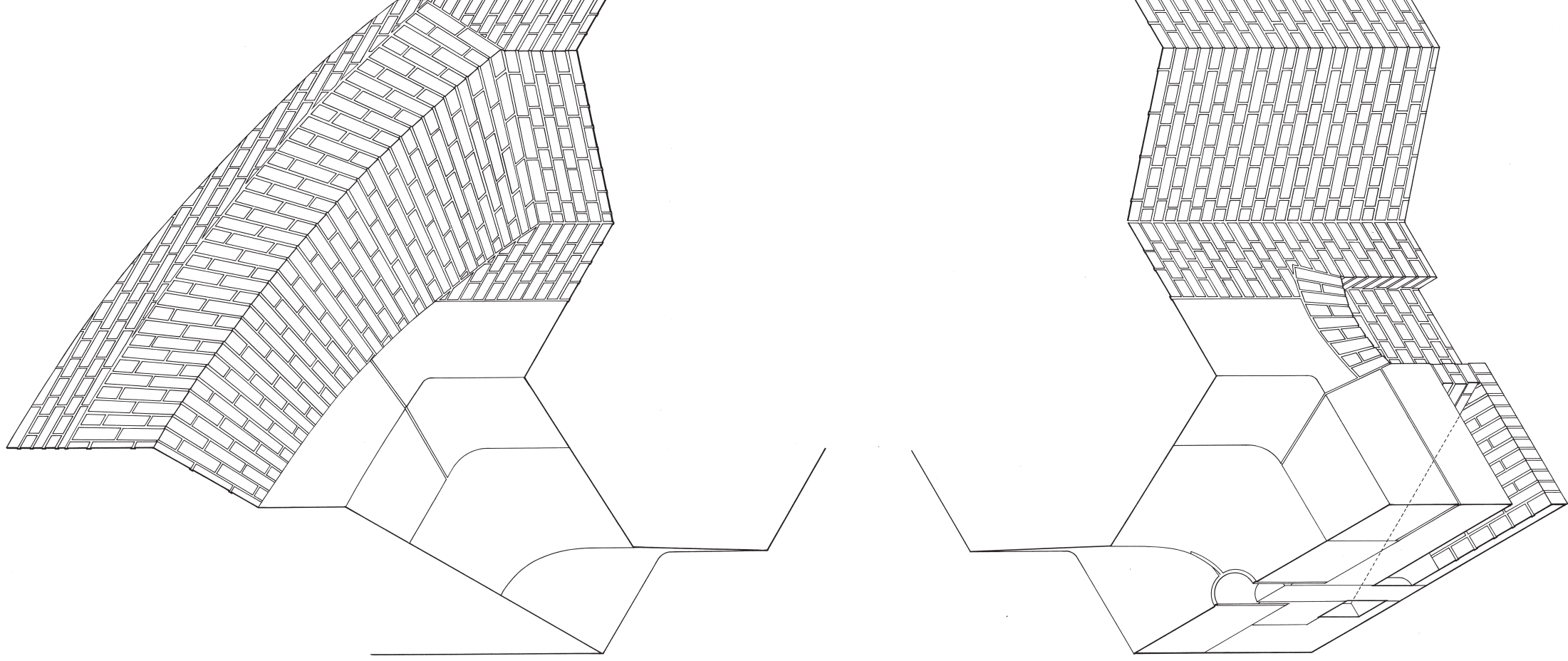
HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 19 OF 24 SHEETS

SURVEY NO.  
SC-194

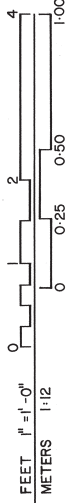
UNIVERSITY OF CALIFORNIA  
BERKELEY

IF REPRODUCED PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING





CORNER DETAIL OF CASEMATE  
AXONOMETRIC



DRAWN BY: THOMAS W. WILLIAMS

FORT SUMTER RECORDING PROJECT 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
**FORT SUMTER**  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

SURVEY NO.  
SC - 194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 20 OF 24 SHEETS

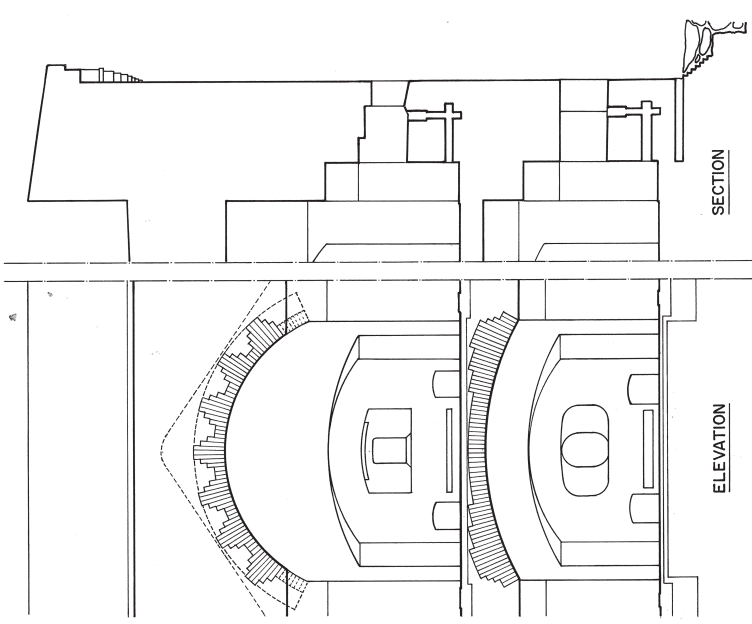
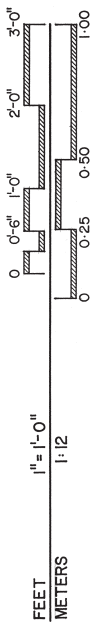
UNIVERSITY OF CONCORD  
INDEX NUMBER

IF REPRODUCED PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING



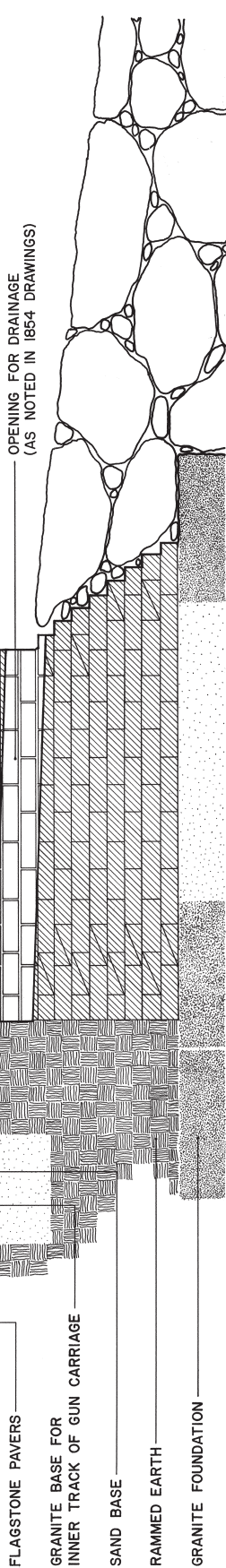
TYPICAL WALL SECTION

DASHED LINES INDICATE THE EXTENT OF THE WALL PRIOR TO 1860.  
PLEASE REFERENCE THE 1854 DRAWING BELOW.



THE DRAWING ABOVE SHOWS THE EXTENT OF THE FIRST AND SECOND CASEMATES AS THEY WERE PLANNED IN 1854.

- 11'-0" APEX OF CASEMATE VAULT
- 9'-0" SPRING OF CASEMATE VAULT
- 8'-0" APEX OF EMBRASURE ARCH
- 6'-5" TOP OF GUN PORTAL
- 3'-1" METAL ENCASED OPENING FOR MOUNTING PIN OF RADIATING ARM OF GUN
- 1'-0" TOP OF RADIATING SLOT 0'-4"
- 0'-0" GROUND
- GRANITE BASE FOR MOUNTING PIN OF RADIATING ARM OF GUN
- OPENING FOR DRAINAGE (AS NOTED IN 1854 DRAWINGS)



- FLAGSTONE PAVERS
- GRANITE BASE FOR INNER TRACK OF GUN CARRIAGE
- SAND BASE
- RAMMED EARTH
- GRANITE FOUNDATION

DRAWN BY: PETER STEHRER

FORT SUMTER RECORDING PROJECT 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
FORT SUMTER  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

SURVEY NO.  
SC-194

HISTORIC AMERICAN BUILDINGS SURVEY  
SHEET 21 OF 24 SHEETS

UNIVERSITY OF MICHIGAN  
INDEX NUMBER

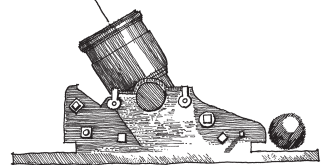
IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING



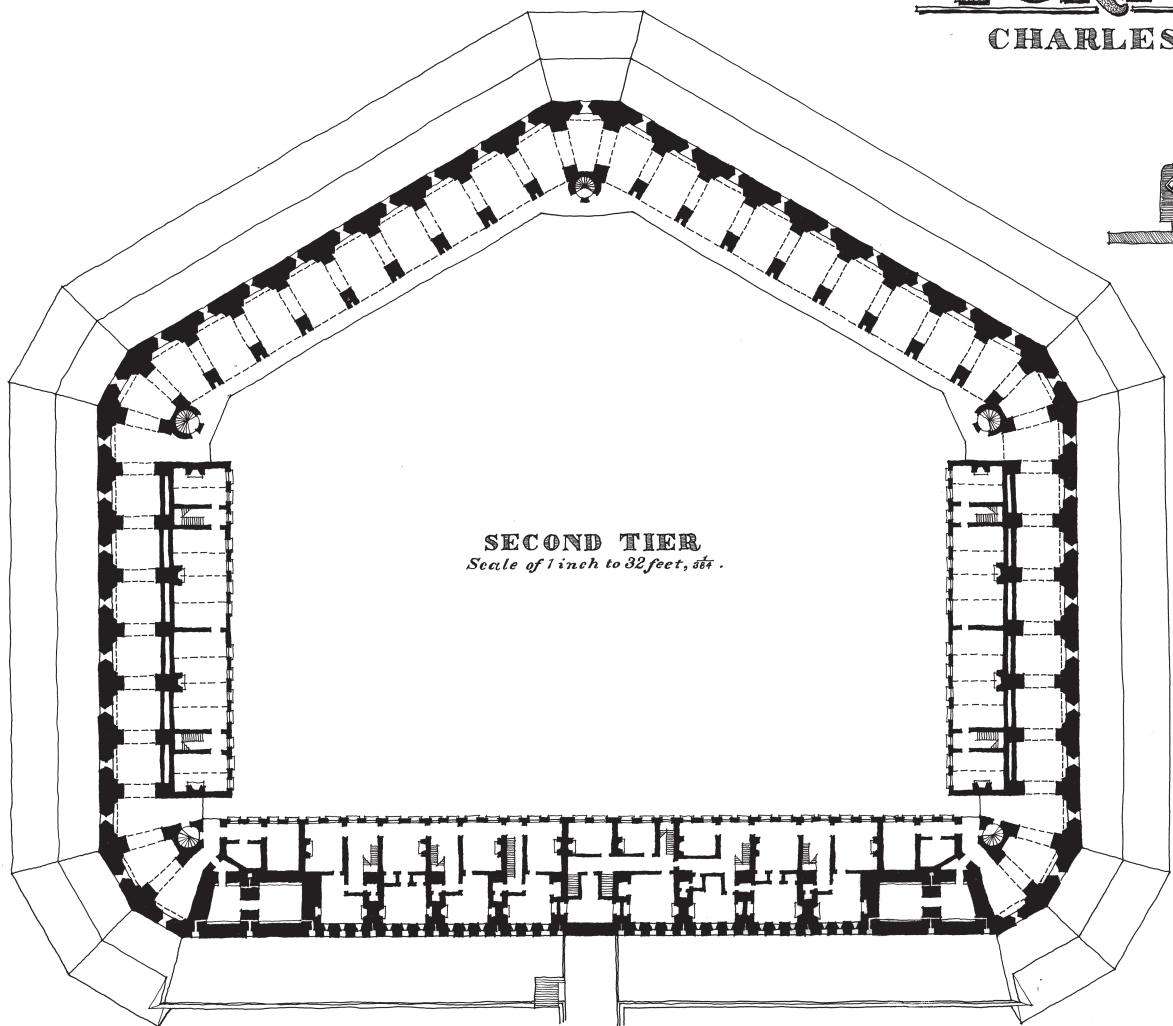
TRIM LINE

# FORT SUMTER

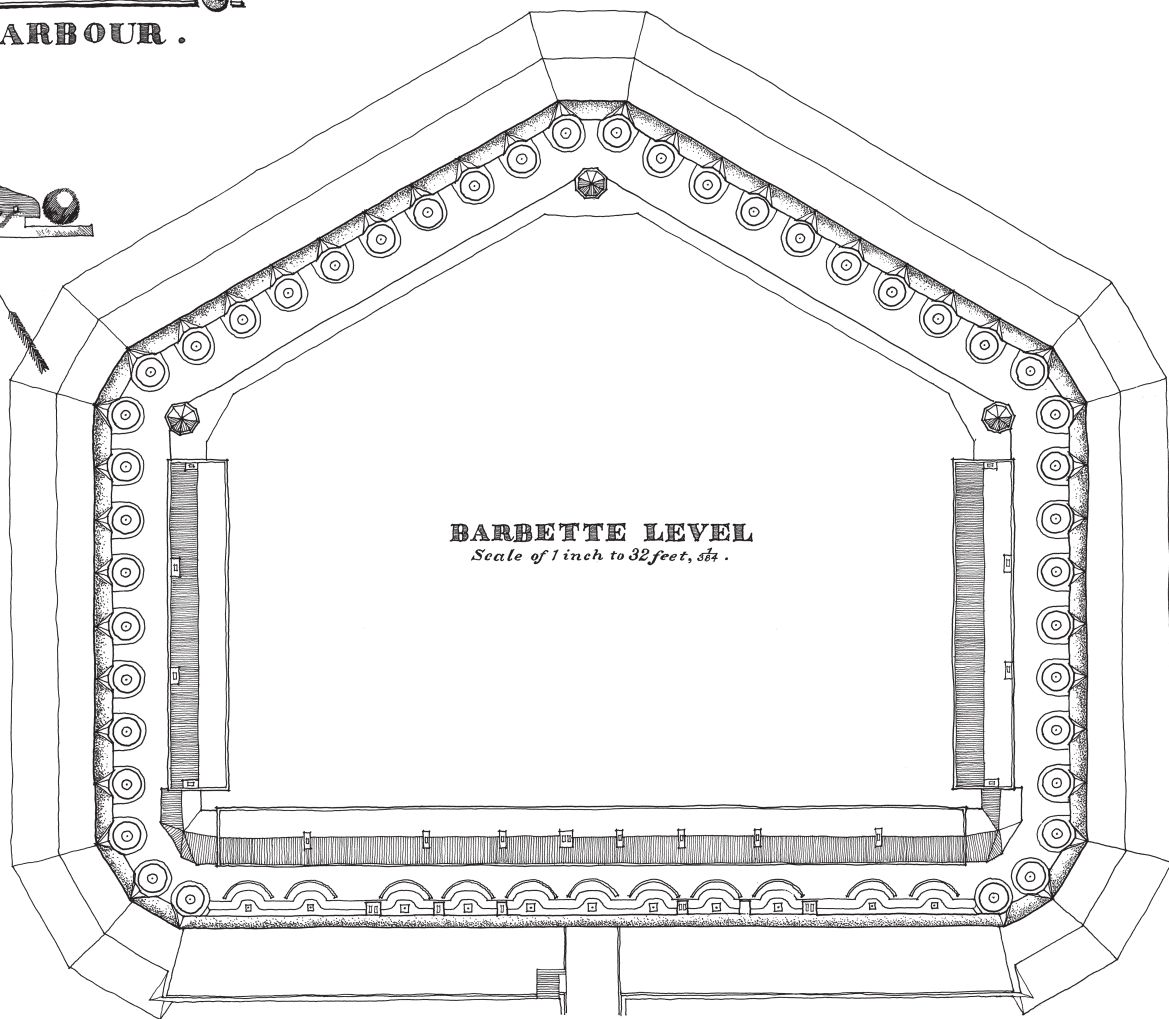
CHARLESTON HARBOUR.



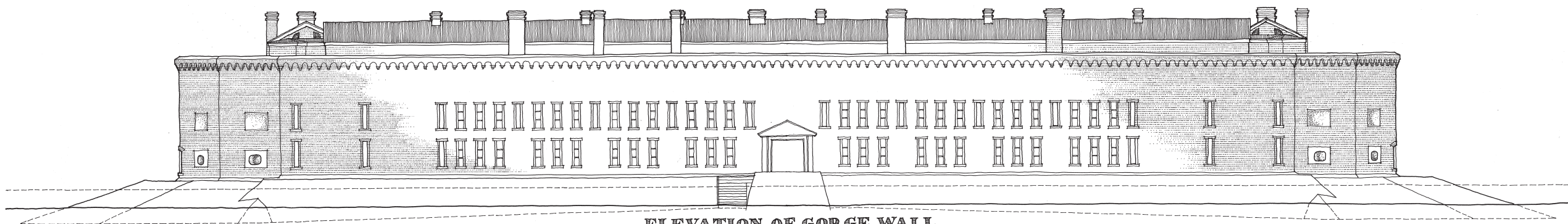
1860



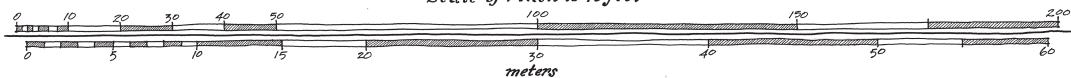
SECOND TIER  
Scale of 1 inch to 32 feet,  $\frac{1}{32}$ .



BARBETTE LEVEL  
Scale of 1 inch to 32 feet,  $\frac{1}{32}$ .



ELEVATION OF GORGE WALL  
Scale of 1 inch to 16 feet



DRAWN BY JAMES N. FERGUSON

FORT SUMTER RECORDING PROJECT · 1991  
NATIONAL PARK SERVICE  
UNITED STATES DEPARTMENT OF THE INTERIOR

NAME AND LOCATION OF STRUCTURE  
**FORT SUMTER**  
CHARLESTON VICINITY · CHARLESTON COUNTY · SOUTH CAROLINA

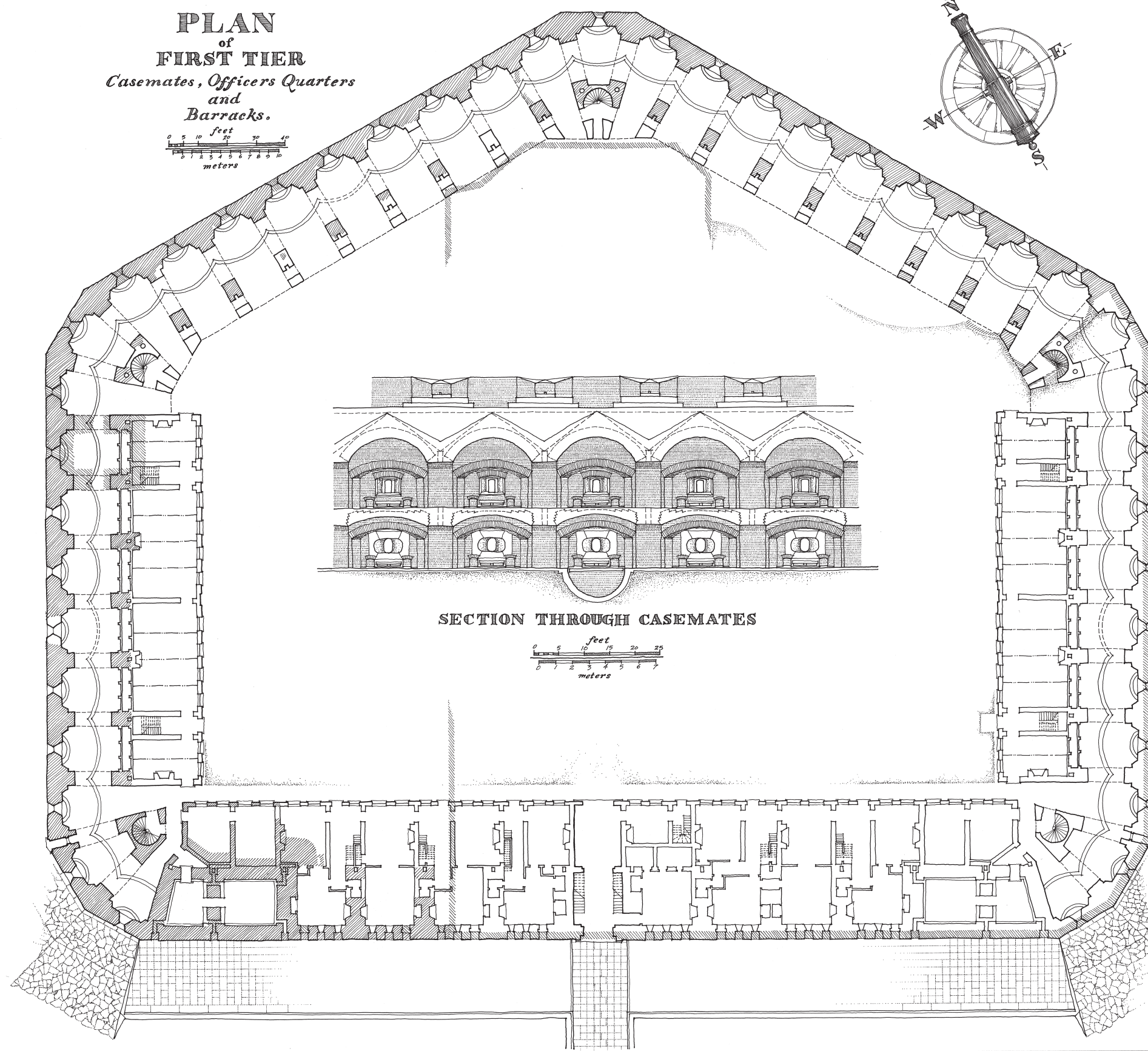
SURVEY NO.  
SC - 194

HISTORIC AMERICAN  
BUILDINGS SURVEY  
SHEET 22 OF 24 SHEETS

LIBRARY OF CONGRESS  
PHOTODUPLICATION SERVICE

IF REPRODUCED, PLEASE CREDIT: HISTORIC AMERICAN BUILDINGS SURVEY, NATIONAL PARK SERVICE, NAME OF DELINEATOR, DATE OF THE DRAWING





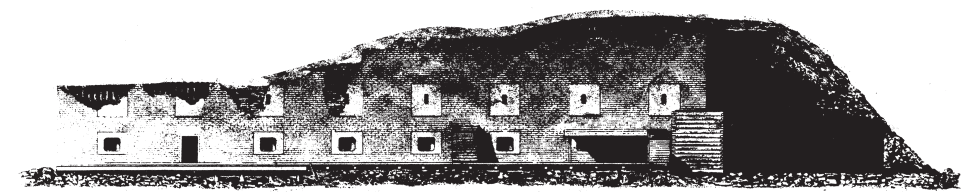
THE INTERPRETIVE DRAWINGS OF FORT SUMTER (SHEETS 1, 22 AND 23) ARE BASED ON A SERIES OF ENGINEERING DOCUMENTS PREPARED 1846-56. THE FORT WAS NEVER FULLY COMPLETED. WHEN MAJOR ROBERT ANDERSON OCCUPIED THE FORT ON DECEMBER 26, 1860 WORK WAS STILL BEING EXECUTED ON THE SECOND TIER CASEMATES AND BARBETTE LEVEL. WORK CONTINUED TO PROCEED DURING HIS OCCUPATION UNTIL THE FIRST SHOT OF THE CIVIL WAR WAS FIRED ON APRIL 12, 1861. THE INTERPRETIVE DRAWINGS ATTEMPT TO CAPTURE THE APPEARANCE OF THE FORT BEFORE IT FELL INTO CONFEDERATE HANDS, APRIL 14, 1861.

AN ADDITIONAL SHEET, 24, SHOWS THE APPEARANCE OF THE FORT AT THE TIME OF ITS CAPTURE FEBRUARY 18, 1865 BY THE U.S. VOLUNTEERS UNDER THE COMMAND OF MAJOR GENERAL QUINCY A. GILLMORE AFTER NEARLY FOUR YEARS OF EXTENSIVE BOMBARDMENT.

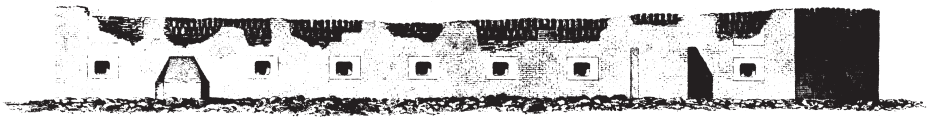
THE INTERPRETIVE DRAWINGS REFERENCE THE FOLLOWING ENGINEERING DOCUMENTS ON FILE IN THE NATIONAL ARCHIVES, UNDER THE RECORDS OF THE WAR DEPARTMENT, OFFICE OF THE CHIEF OF ENGINEERS (THE DRAWER AND SHEET NUMBER ARE GIVEN AFTER EACH ENTRY):

- A. TYPICAL WALL SECTION AND INTERIOR ELEVATION OF FIRST AND SECOND TIER CASEMATES, PREPARED JUNE 11, 1846 (AMENDED OCTOBER 30, 1851) UNDER THE DIRECTION OF SECOND LIEUTENANT J.D. KURTZ. DRAWER 66, SHEET 30.
- B. SECTION AND INTERIOR ELEVATION OF STAIR TOWER AND TYPICAL WALL ANGLE CONDITION, PREPARED JUNE 11, 1846 (AMENDED OCTOBER 13, 1851) UNDER THE DIRECTION OF LT. KURTZ. DRAWER 66, SHEET 31.
- C. PLAN, ELEVATIONS AND DETAILS OF FORT SUMTER, EXHIBITING THE CONDITION OF WORK ON SEPTEMBER 30, 1847, PREPARED UNDER THE DIRECTION OF CAPTAIN A.H. BOWMAN AND LT. KURTZ. DRAWER 66, SHEET 39.
- D. TYPICAL SECTION THROUGH THE OFFICERS QUARTERS AND GORGE WALL, PREPARED JANUARY 11, 1847 (AMENDED OCTOBER 13, 1851) UNDER THE DIRECTION OF LT. KURTZ. DRAWER 66, SHEET 28.
- E. ROOF PLAN SHOWING THE POSITION OF THE BARBETTE GUNS, PREPARED SEPTEMBER 2, 1851 UNDER THE DIRECTION OF LT. KURTZ. DRAWER 66, SHEET 71.
- F. DETAIL OF BARBETTE GUN MOUNTS ALONG PART OF GORGE AND WEST FLANK WALLS, PREPARED SEPTEMBER 2, 1851 UNDER THE DIRECTION OF LT. KURTZ. DRAWER 66, SHEET 67.
- G. PLAN AND DETAILS OF BARRACKS, PREPARED OCTOBER 30, 1851 UNDER THE DIRECTION OF LT. KURTZ. DRAWER 66, SHEET 60.
- H. DETAIL OF PLAN OF BARRACKS, PREPARED APRIL 3, 1854 UNDER THE DIRECTION OF LT. CRAIGHILL. DRAWER 66, SHEET 63.
- I. DESIGN FOR BRICK COPING AND ITS SUPPORTING CORBELS AT FORT SUMTER, PREPARED MAY 7, 1856 UNDER THE DIRECTION OF CAPTAIN GEORGE N. CULLUMS. DRAWER 66, SHEET 77.





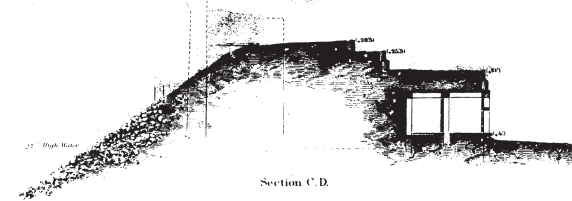
Elevation of Western Front.



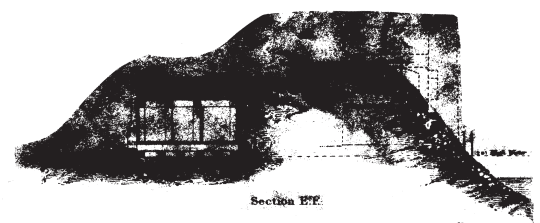
Elevation of Northern Front.



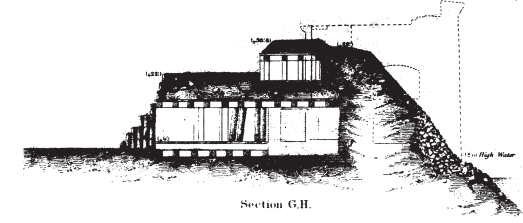
Section A.B.



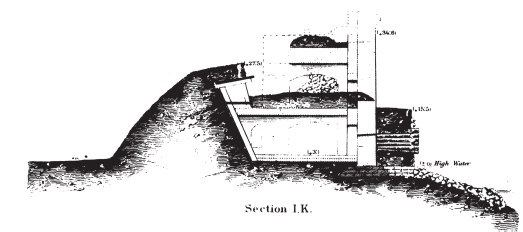
Section C.D.



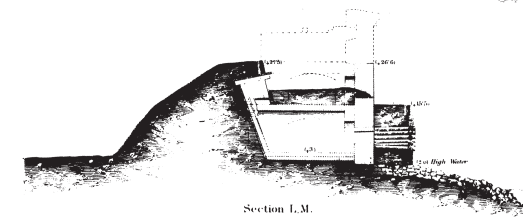
Section E.F.



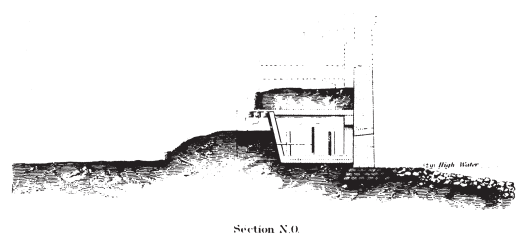
Section G.H.



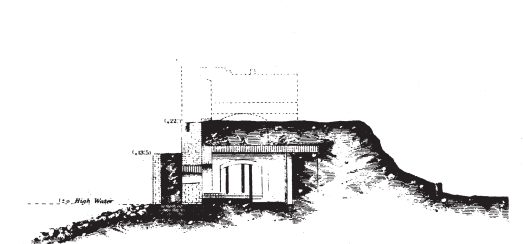
Section I.K.



Section L.M.



Section N.O.



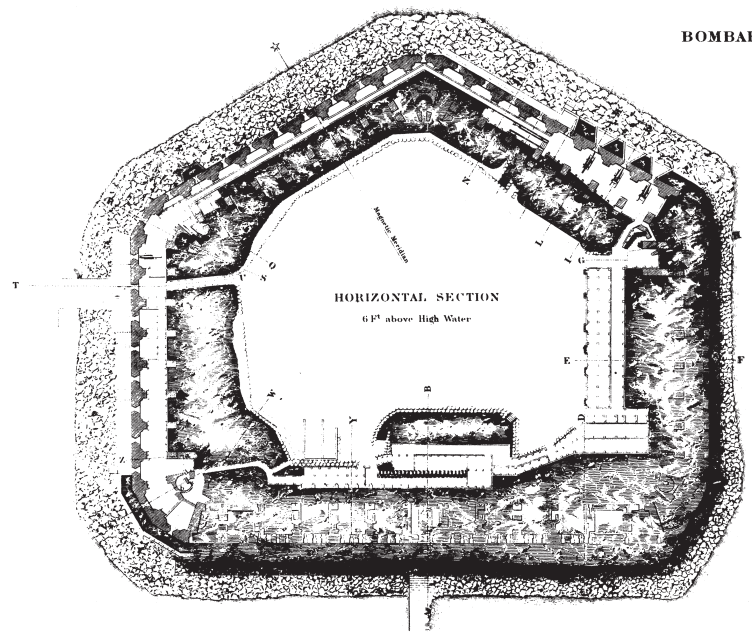
Section P.Q.

# FORT SUMTER

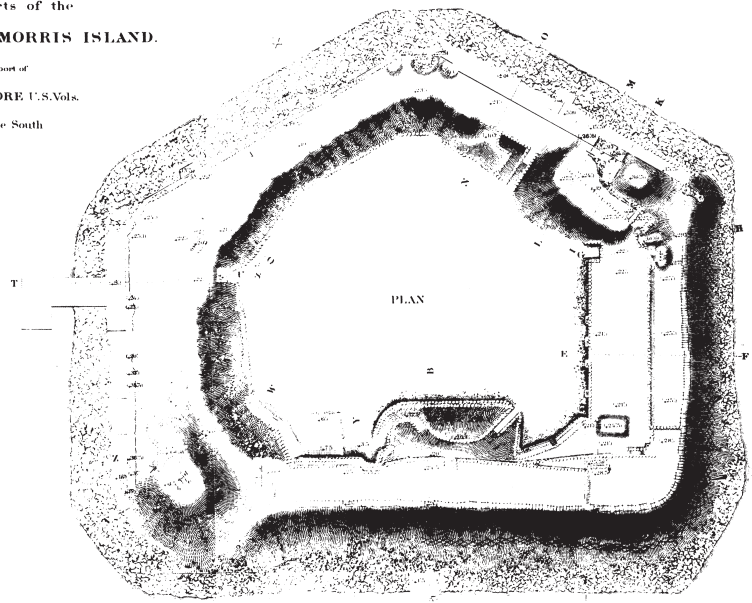
SOUTH CAROLINA  
AT THE TIME OF ITS CAPTURE FEBRUARY 18<sup>TH</sup> 1865.

Showing the Effects of the  
BOMBARDMENT FROM MORRIS ISLAND.

To accompany the Report of  
Maj. Genl. O.A. GILLMORE U.S. Vols.  
Comdg. Dept. of the South

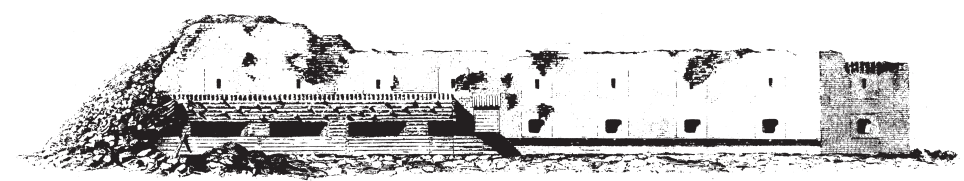


HORIZONTAL SECTION  
6 F<sup>t</sup> above High Water

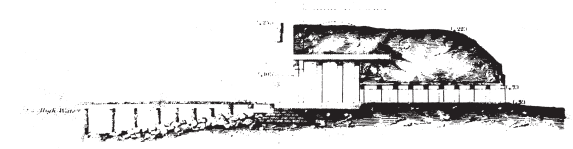


PLAN

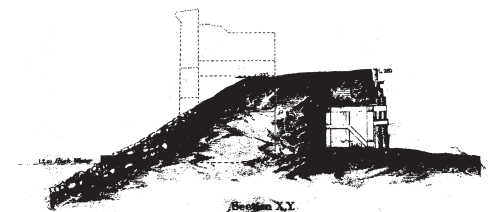
Scale of Plan and Horizontal Section 6ft



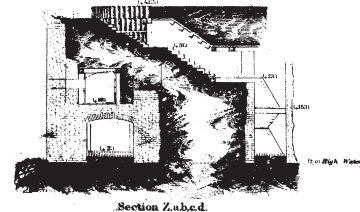
Elevation of North Eastern Front.



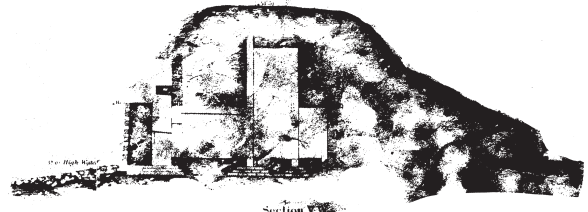
Section T.U.



Section V.V.



Section Z.a.b.c.d.



Section E.V.

Scale of Sections and Elevation 2 ft

THE ORIGINAL DRAWING IS FILED IN  
DRAWER 66, SHEET 86  
FORTIFICATION FILE MAP  
RECORDS OF THE WAR DEPARTMENT  
THE NATIONAL ARCHIVES, WASHINGTON, D.C.