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LIBRARY OF THE
AMERICAN MVSEVM OF NATVRAL HISTORY
FOR THE
PEOPLE
FOR
EDVCATION
FOR
SCIENCE

Growth of the Building
of the
American Museum of Natural History

Plans for Future Building
and
Arrangement of Collections

MAY, 1911

48-107495-Mar 20

Growth of the Building
of the
American Museum of Natural History

Plans for Future Building
and
Arrangement of Collections

Submitted by the
President and Buildings and Plans Committee
to the
Trustees of the Museum
and to the
Members of the Board of Estimate and Apportionment
May 8, 1911

The Arsenal in Central Park — First Home of the Museum, 1870–1877

The Arsenal in Central Park

FIRST HOME OF THE MUSEUM, 1870–1877

Site—Second and third floors of the Arsenal.
President—John David Wolfe.
Mayor—A. Oakley Hall.
Comptroller—Andrew H. Green.

Manhattan Square, a plot of 18 acres, the present site of the Museum, was set aside as the permanent home of The American Museum of Natural History, by the Park Board in 1872.

The Museum. South Transept. The first portion of the Museum and a part of Manhattan Square as they appeared in 1877–1889

The Museum—South Transept

President—Robert L. Stuart.

Mayors—A. Oakley Hall (1869–1872). William H. Wickham (1875–1876).

Comptroller—Andrew H. Green.

Park Commissioner—Henry G. Stebbins (1871).

Corner-stone laid by President U. S. Grant, June 2, 1874.

Construction period, 1874–1877.

Appropriation by the City, Chapter 290, Laws of 1871 - - -		$500,000.00	
Appropriation by the City, Chapter 315, Laws of 1875 - - -		200,000.00	$700,000.00
Contract price for iron work - - - - -	$287,844.50		
Contract price for masons' work - - -	131,483.00		
Balance for plastering, plumbing, heating, lighting, tiling, cases, painting, etc. - - - - -	280,675.50		$700,000.00

Contract awarded, July 24, 1873.

Last payment, August 2, 1877.

Floor Area, 71,426 square feet, including cellar and attic used as storage rooms.

Architect—Calvert Vaux.

THE MUSEUM. Central Section of the South Façade, 1889–1893

Central Section of the South Façade

(SOUTH ENTRANCE)

President—Morris K. Jesup.

Mayors—Abram S. Hewitt (1887–1888). Hugh J. Grant (1889–1892).

Comptrollers—Edward V. Loew (1887). Theodore W. Meyers (1889–1893).

Park Commissioners—M. C. D. Borden (1887). J. Hampden Robb (1889).

Appropriation by the City, Chapter 44, Laws of 1887, for Central Section and East Transept		$400,000.00	
Appropriation by the City, Chapter 89, Laws of 1889, for West Transept, stoop and entrance		400,000.00	$800,000.00
Contract price for building Central Section and East Transept	$338,254.50		
Balance for excavation, cases, etc.	64,745.50	$400,000.00	
Contract awarded October 8, 1888.			
Last payment, May 12, 1891.			
Contract price for building West Transept, stoop and entrance	$339,291.54		
Balance for cases, fees, etc.	60,708.46	400,000.00	$800,000.00
Contract awarded February 4, 1890.			
Last payment, September 23, 1891.			

Floor area, 69,405 square feet, including cellar and attic used for storage.

Architect—J. C. Cady & Co.

The Museum. East Wing of South Façade, 1893–1895

East Wing of South Façade

President—Morris K. Jesup.

Mayors—Hugh J. Grant (1889-1892). Thomas F. Gilroy (1893-1894).

Comptrollers—Theodore W. Meyers (1889-1893). Ashbel P. Fitch (1894-1897).

Park Commissioners—Paul Dana (1892). A. B. Tappen (1893). George C. Clausen (1894).

Appropriation by the City, Chapter 423, Laws of 1892 - - -		$350,000.00	
Appropriation by the City, Chapter 448, Laws of 1893 - - -		*50,000.00	
Appropriation by the City, Chapter 63, Laws of 1894 - - -		†200,000.00	$600,000.00
Contract price for building - - - - -	$330,900.00		
Balance for fees, etc. - - - - - -	19,100.00	$350,000.00	
Contract awarded, July 19, 1893.			
Last payment, August 26, 1895.			
Reimbursement amount - - - -	$48,103.36		
Balance for fees, etc. - - - - - -	1,896.64	50,000.00	
Contract price for building - - - - -	$184,750.00		
Balance for fees, etc. - - - - - -	15,250.00	200,000.00	$600,000.00
Contract awarded, June 29, 1894.			
Last payment, September 3, 1895.			
Floor area, 52,998 square feet, including cellar used for storage.			

Architect—J. C. Cady & Co.

* This amount was paid to the Trustees in reimbursement for payments made for several years for cases, repairs, etc., to various portions of entire building.

† Completion of enlargement (refers principally to the East Wing).

Southwest Corner Wing — West Wing — Central Section—South Entrance — East Wing — Southeast Corner Wing

THE MUSEUM. South Façade. Exterior completed in 1899

West Wing of South Façade

President—Morris K. Jesup.
Mayor—William L. Strong.
Comptroller—Ashbel P. Fitch.
Park Commissioner—David H. King.

Appropriation by the City for West Wing, Chapter 235, Laws of 1895 -	$500,000.00	
Premium from sale of bonds - - - - - - -	11,775.00	$511,775.00
Contract for building - - - - - -	$344,900.00	
Balance for cases, fees, repairs, etc. - - - -	166,875.00	$511,775.00

Contract awarded, October 1, 1895.
Last payment, June 28, 1897.
Floor Area, 52,998 square feet, including cellar used for storage.

Architect—J. C. Cady & Co.

Southeast Corner Wing

President—Morris K. Jesup.

Mayor—William L. Strong.

Comptroller—Ashbel P. Fitch.

Park Commissioner—S. Van Rensselaer Cruger.

Appropriation by the City for Southeast Corner Wing, Chapter 175, Laws of 1896 - - - - - - - - -	$500,000.00	
Premium from sale of bonds - - - - - - -	29,002.50	$529,002.50
Contract for building - - - - - -	$364,500.00	
Balance for cases, repairs, fees, etc. - - - -	164,502.50	$529,002.50

Contract awarded, September 2, 1897.

Last payment, December 7, 1899.

Floor Area, 49,416 square feet, including cellar and two attics used for storage.

Architect—Cady, Berg & See.

Southwest Corner Wing

President—Morris K. Jesup.

Mayor—William L. Strong.

Comptroller—Ashbel P. Fitch.

Park Commissioner—Samuel McMillan.

Appropriation by the City for Southwest Corner Wing and Lecture Hall, Chapter 213, Laws of 1897 - - - - - -		$500,000.00	
Premium on sale of bonds - - - - - - -		26,532.50	$526,532.50
Contract price for Southwest Wing - - - -	$362,500.00		
Contract price for Lecture Hall - - - -	108,900.00		
Balance used for fees, furnishing, repairs, etc. - -	55,132.50	$526,532.50	

Contract awarded for Southwest Wing, October 14, 1897.

Last payment for Southwest Wing, December 8, 1899.

Contract awarded for Lecture Hall, October 6, 1899.

Last payment, 1900.

Floor Area of Southwest Corner Wing, including two attics used for storage, 19,446 square feet.

Floor Area of Lecture Hall, 15,954 square feet.

Seating capacity of Lecture Hall, 1,500.

Architect—Cady, Berg & See.

Supplementary Equipment and Casing of South Fagade

President—Morris K. Jesup.

Mayor—Robert A. Van Wyck.

Comptroller—Bird S. Coler.

Park Commissioner—George C. Clausen.

Appropriation by the City for the completion of buildings, cases, painting, tiling, pedestals, and equipping new building (Southwest Wing), as the contract was for the building without sash, trim, tile, painting, etc., and also for the repairs and alterations to all the buildings constructed at that time, Chapter 185, Laws of 1900 - - - -	$350,000.00

The Museum—Rear View of Building. ⊕ Heating and Lighting Plant. (+) Lecture Hall

Heating and Lighting Plant

President—Morris K. Jesup.
Mayor—Seth Low.
Comptroller—Edward M. Grout.
Park Commissioner—William R. Willcox.

Appropriation by the Board of Aldermen for the construction and installation of a new Heating and Lighting Plant, July 22, 1902 - -		$200,000.00	
Premium from sale of bonds - - - - - - -		1,136.10	$201,136.10
Contract price for building - - - - -	$189,299.00		
Balance for fees, etc. - - - - - -	11,837.10		$201,136.10

Floor Area of Engine Room, 13,206 square feet.
Floor Area of Pump and Boiler Room, 8,094 square feet.
Floor Area of Approaches, 6,288 square feet.
Contract awarded, May 18, 1903.
Last payment, November 14, 1904.
Architect—Charles Volz.

Supplementary Equipment, Casing and Construction

President—Morris K. Jesup.
Mayor—Seth Low.
Comptroller—Edward M. Grout.
Park Commissioner—William R. Willcox.

Appropriation by the Board of Aldermen for the completion of the unfinished portions of the building, June 16, 1903 - - - - -	$188,000.00	
Premium from sale of bonds - - - - - - -	1,281.21	$189,281.21

The Museum. South Wing of West Façade

South Wing of West Façade, Service Road and Fire Lines

President—Morris K. Jesup.
Mayor—George B. McClellan.
Comptroller—Edward M. Grout.
Park Commissioner—John J. Pallas.

Appropriation by the Board of Aldermen for the equipping and finishing of the buildings and the construction of additions thereto, April 11, 1905	$500,000.00	
Premium from sale of bonds - - - - - - -	11,090.63	$511,090.63
Contract price for South Wing of West Façade - -	$325,600.00	
Contract price for Service Road - - - -	26,000.00	
Contract price for Fire Lines (entire South Façade) - -	19,838.00	
Balance for equipment, etc. - - - - -	139,652.63	$511,090.63

Main contract awarded, May 22, 1906.
Last payment, June 6, 1908.
Floor Area, 64,163 square feet, including cellar and attics used for storage and workshops.

Architect—Charles Volz.

Casing, Equipment and Construction, Chiefly of South Section of West Façade

President—Henry Fairfield Osborn.
Mayor—William J. Gaynor.
Comptroller—William A. Prendergast.
Park Commissioner—Charles B. Stover.

Appropriation by the Board of Aldermen, July 26, 1909 - - - - - $100,000.00

The Museum in 1911

Summary of Appropriations and Floor Areas, 1869–1911

		Premium
Chapter 290, Laws of 1871 - -	$500,000.00	
Chapter 315, Laws of 1875 - -	200,000.00	
Chapter 44, Laws of 1887 - -	400,000.00	
Chapter 89, Laws of 1889 - -	400,000.00	
Chapter 423, Laws of 1892 - -	350,000.00	
Chapter 448, Laws of 1893 - -	50,000.00	
Chapter 63, Laws of 1894 - -	200,000.00	
Chapter 235, Laws of 1895 - -	500,000.00	$11,775.00
Chapter 175, Laws of 1896 - -	500,000.00	29,002.50
Chapter 213, Laws of 1897 - -	500,000.00	26,532.50
Chapter 185, Laws of 1900 - -	350,000.00	
Ordinance, Board of Aldermen, July 22, 1902	200,000.00	1,136.10
Ordinance, Board of Aldermen, June 16, 1903	188,000.00	1,284.21
Ordinance, Board of Aldermen, April 11, 1905	500,000.00	11,090.63
Ordinance, Board of Estimate, July 26, 1909	100,000.00	
	$4,938,000.00	$80,820.94
	80,820.94	
Grand total - - -	$5,018,820.94	

Total Floor Areas

South Transept -	74,426 square feet
South Entrance -	69,405 square feet
East Wing -	52,998 square feet
West Wing -	52,998 square feet
Southeast Corner Wing	49,446 square feet
Southwest Corner Wing	49,446 square feet
Lecture Hall -	15,954 square feet
Heating and Lighting Plant	24,300 square feet
Approaches -	6,288 square feet
South Wing, West Façade	64,163 square feet
	453,364 square feet
	or 10.407 acres

Comparative Cost of Public Buildings

American Museum of Natural History, New York	$5,018,820.94
Metropolitan Museum of Art " "	4,853,536.97
College of the City of New York, including grounds and equipment	5,500,000.00
New Municipal Building, New York	12,000,000.00
New York Public Library, " "	9,000,000.00
Hall of Records, " "	5,613,699.00
Speedway, " "	3,095,000.00
United States National Museum, Washington, D. C.	3,500,000.00
Carnegie Institute, Pittsburgh, Pa.	6,120,000.00

Design for new East Façade of The Museum facing Central Park

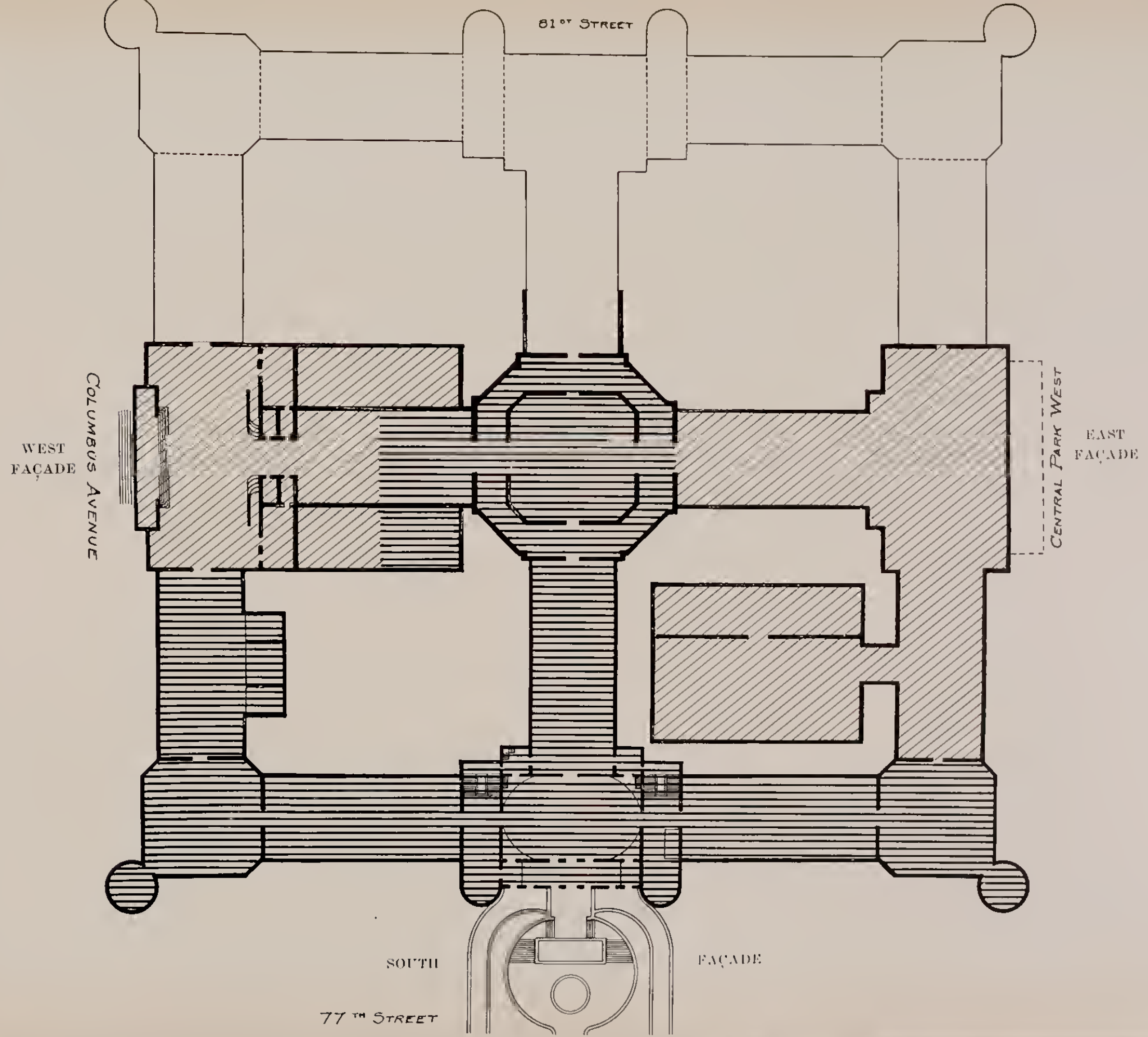
(Preliminary Sketch by Trowbridge & Livingston, Architects, submitted to the Trustees May 8, 1911)

GROUND PLAN

OF THE

AMERICAN MUSEUM OF NATURAL HISTORY

Horizontal Ruling - -	Completed
Oblique ruling - - -	Projected (1911)
Blank - - - - -	Future


81st Street
WEST FAÇADE
Columbus Avenue
EAST FAÇADE
Central Park West
SOUTH FAÇADE
77th Street

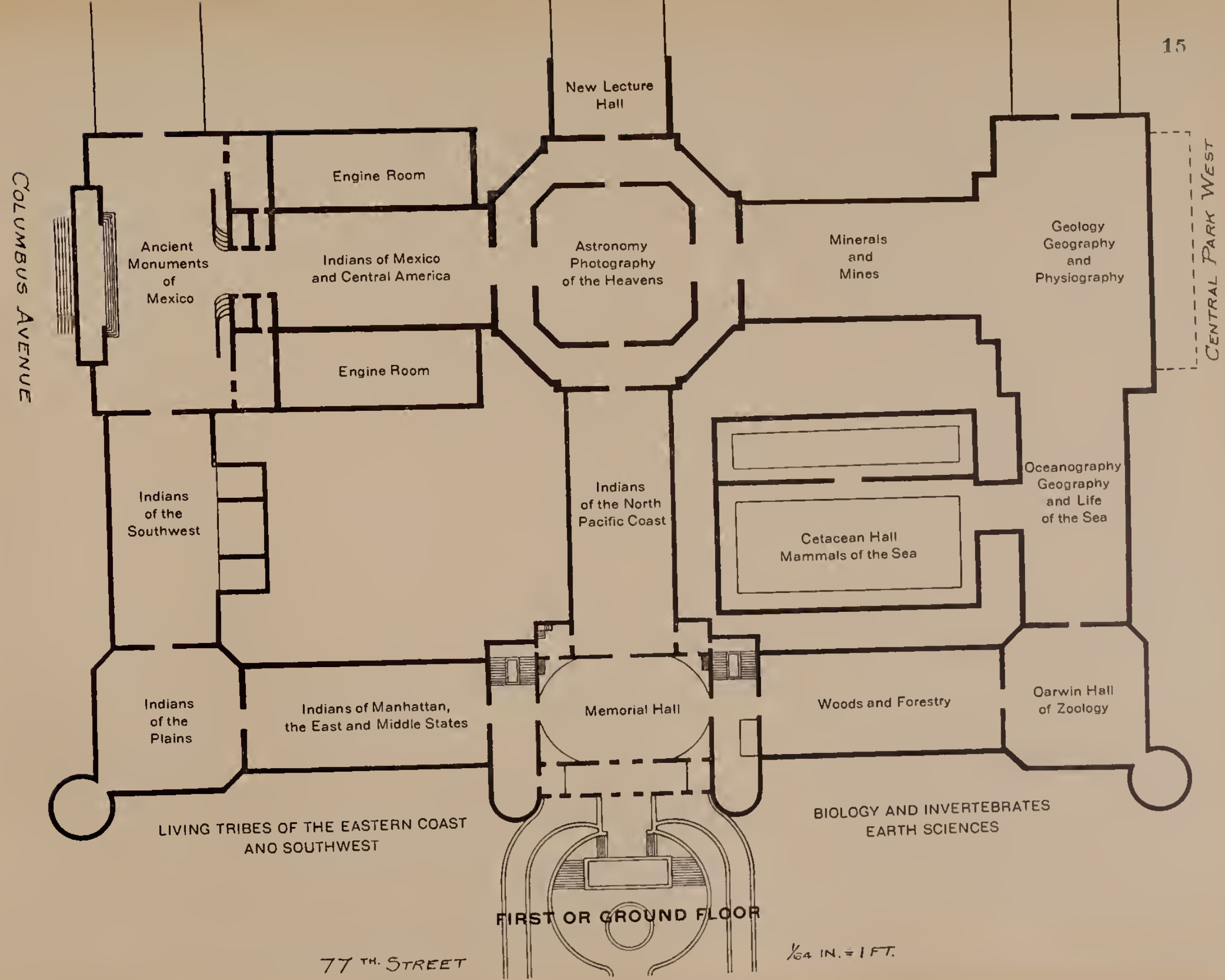
THE FOLLOWING PAGES PRESENT THE

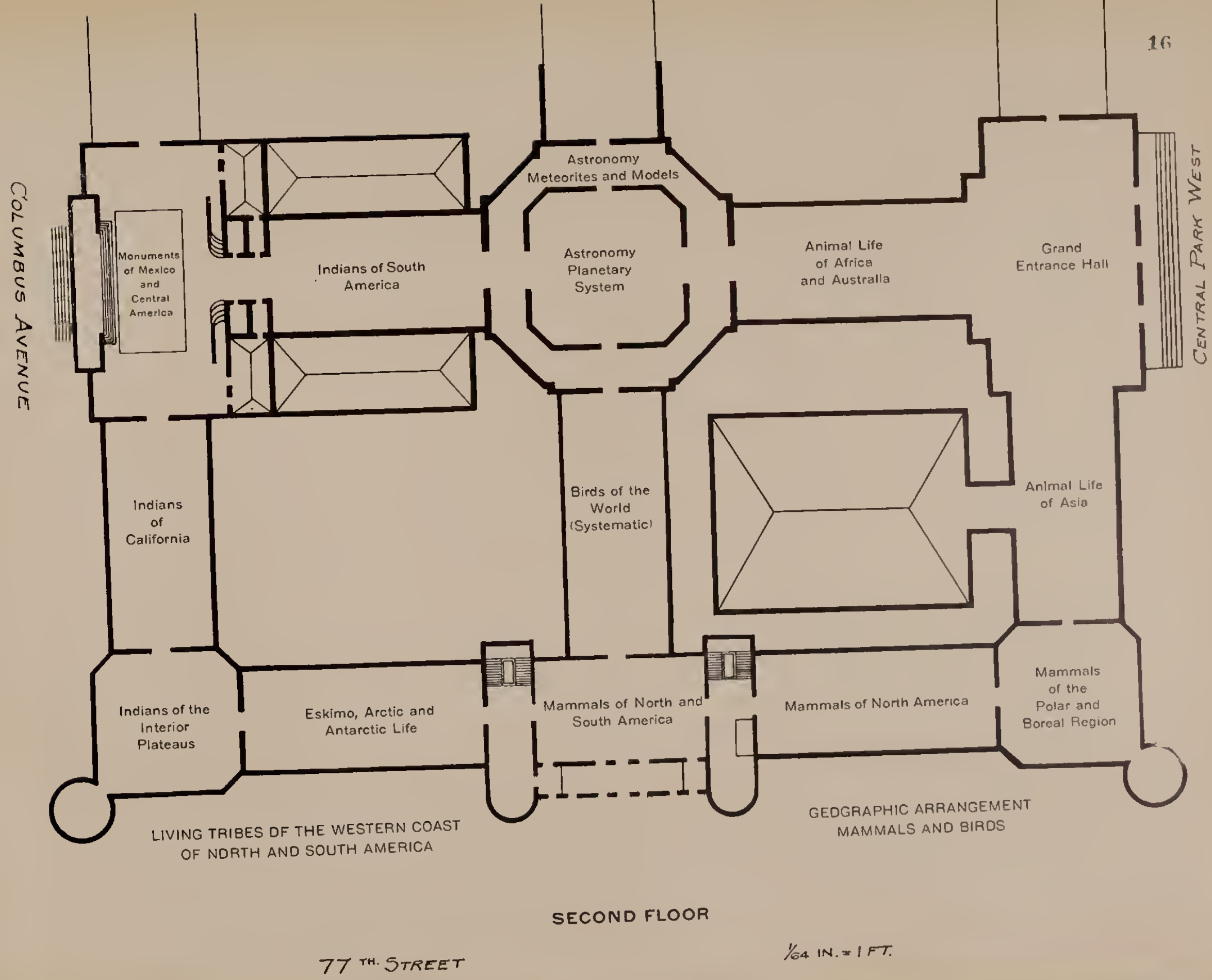
PROPOSED ARRANGEMENT OF EXHIBITS AND COLLECTIONS

IN THE

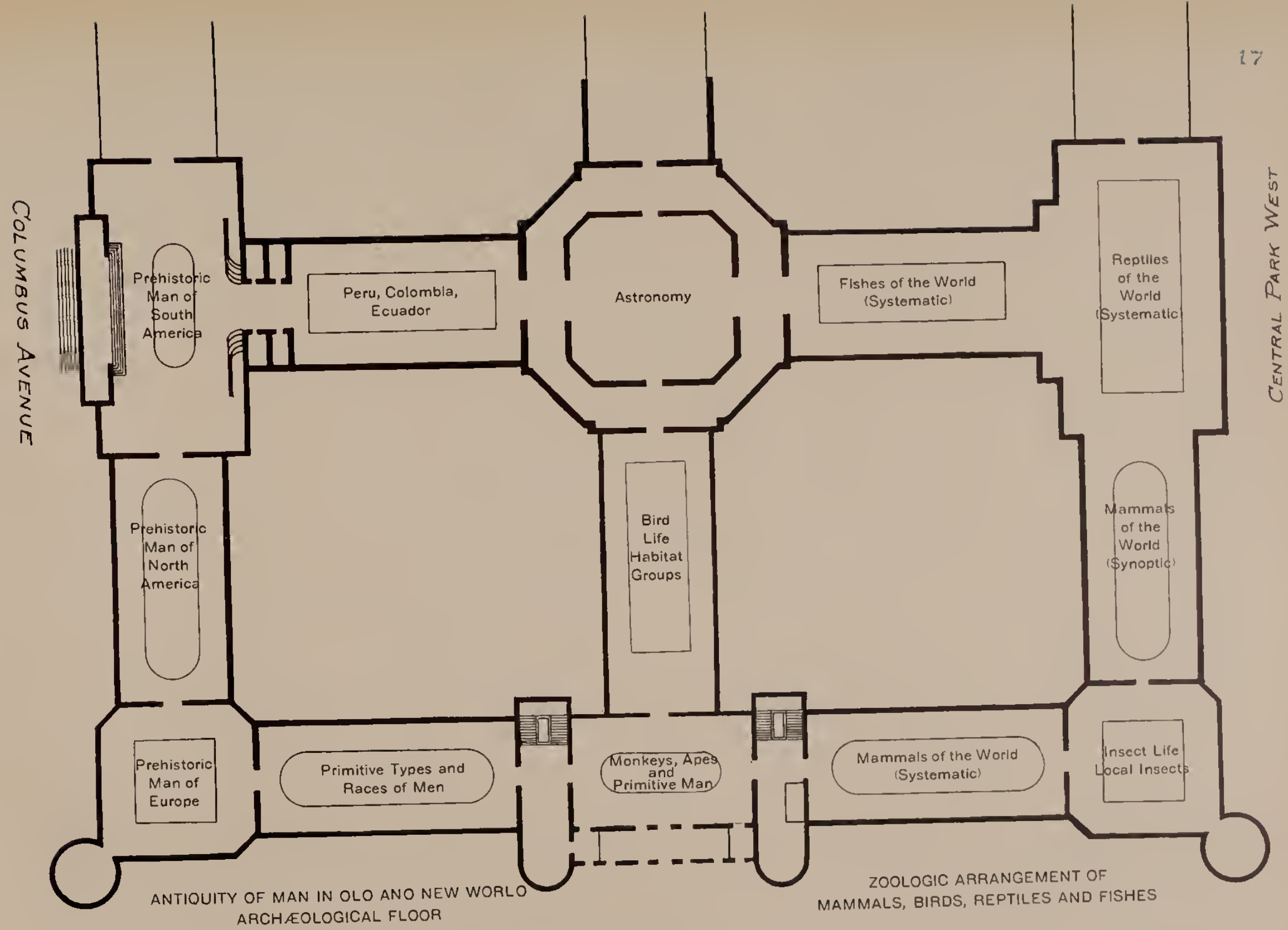
BUILDING AS CONSTRUCTED AND AS PROJECTED FOR THE

IMMEDIATE FUTURE


New Lecture Hall
Engine Room
Ancient Monuments of Mexico
Indians of Mexico and Central America
Astronomy Photography of the Heavens
Minerals and Mines
Geology Geography and Physiography
Engine Room
Indians of the Southwest
Indians of the North Pacific Coast
Oceanography Geography and Life of the Sea
Cetacean Hall Mammals of the Sea
Indians of the Plains
Indians of Manhattan, the East and Middle States
Memorial Hall
Woods and Forestry
Darwin Hall of Zoology
LIVING TRIBES OF THE EASTERN COAST AND SOUTHWEST
BIOLOGY AND INVERTEBRATES EARTH SCIENCES
FIRST OR GROUND FLOOR
77 TH. STREET
1/64 IN. = 1 FT.
COLUMBUS AVENUE
CENTRAL PARK WEST



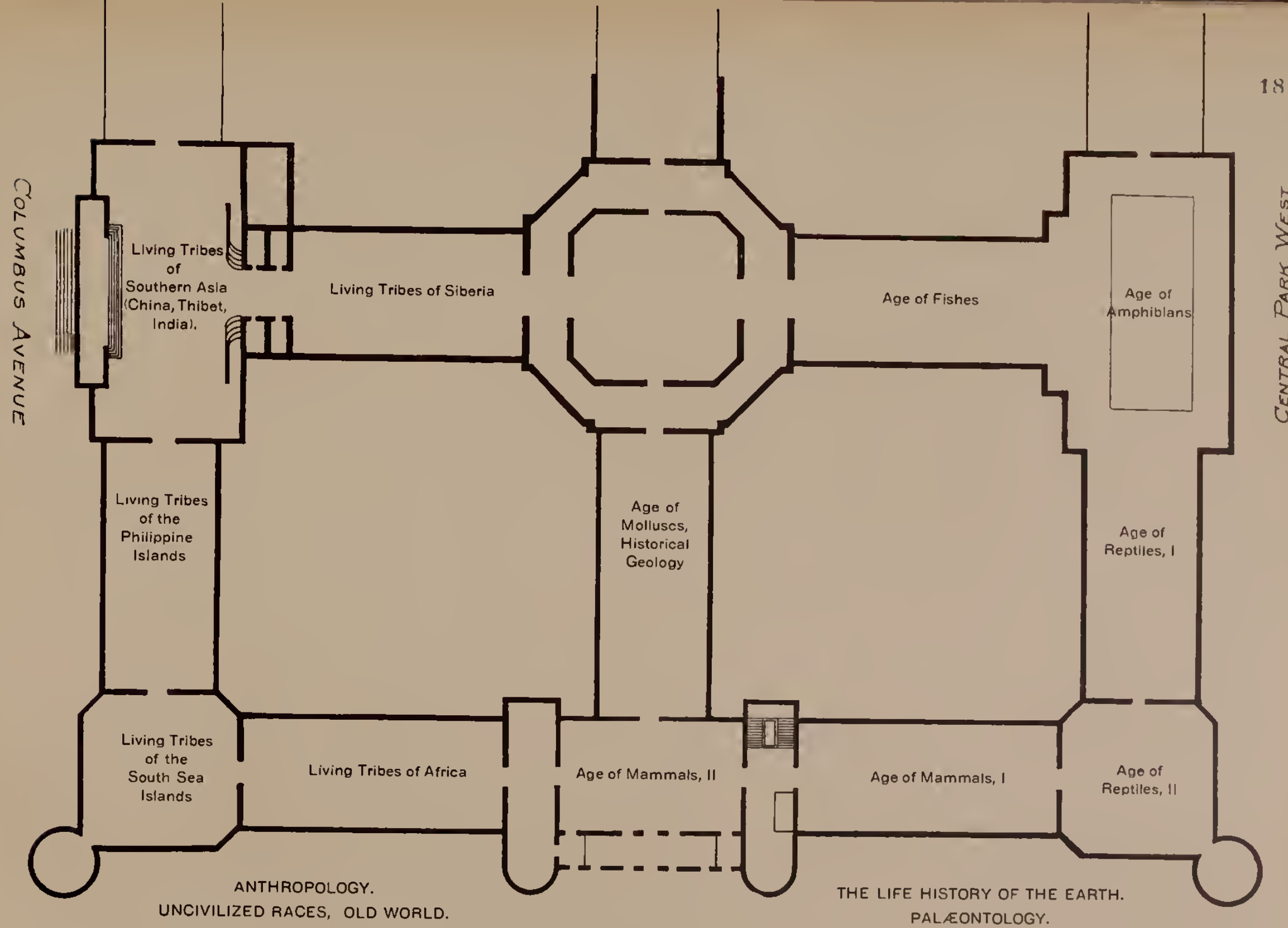
SECOND FLOOR



THIRD FLOOR

77 TH. STREET

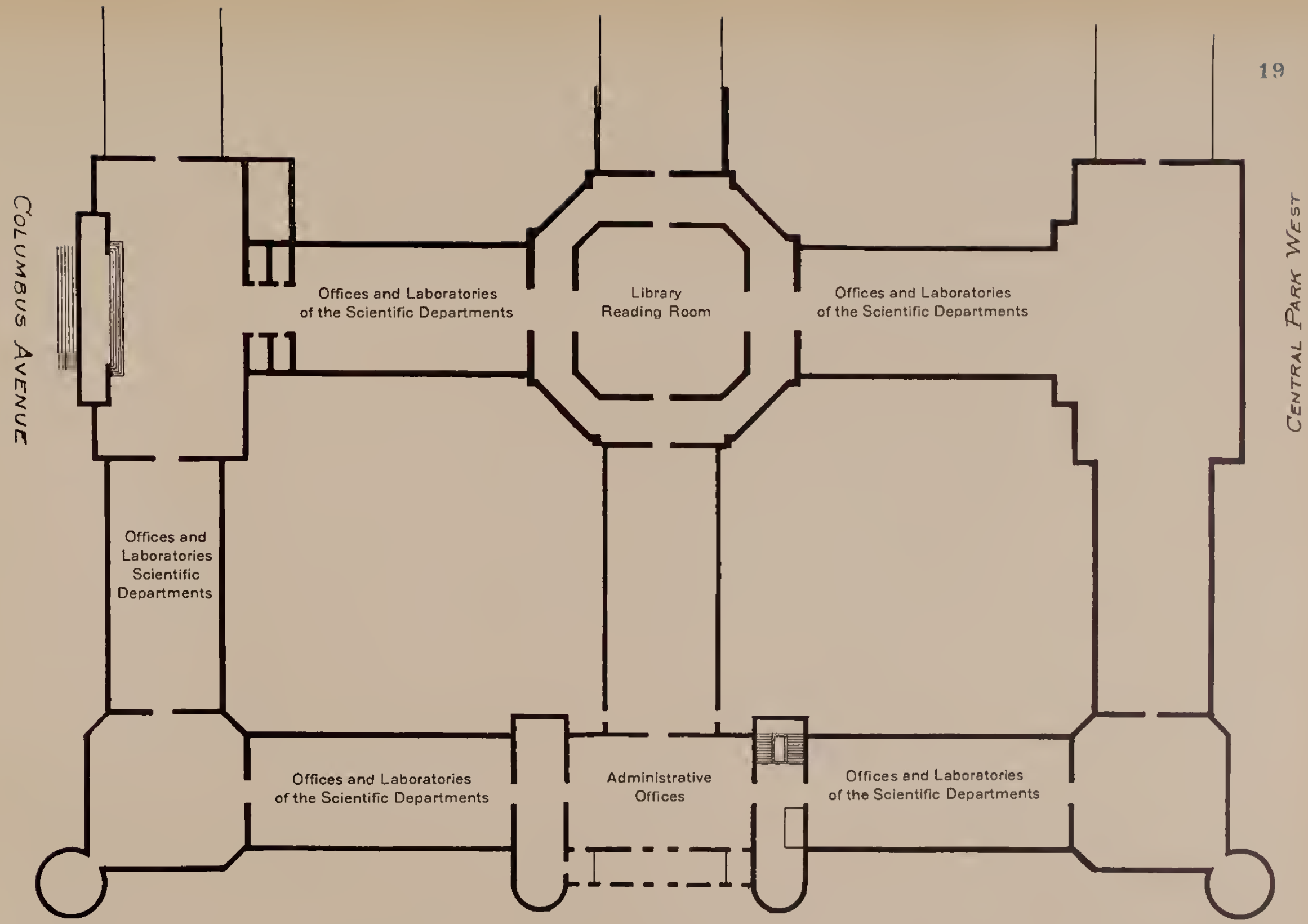
1/64 IN. = 1 FT.



FOURTH FLOOR

77 TH. STREET

1/64 IN. = 1 FT.


Columbus Avenue
Central Park West
Offices and Laboratories of the Scientific Departments
Library Reading Room
Offices and Laboratories of the Scientific Departments
Offices and Laboratories Scientific Departments
Offices and Laboratories of the Scientific Departments
Administrative Offices
Offices and Laboratories of the Scientific Departments
77 TH STREET
1/64 IN. = 1 FT.

FIFTH FLOOR

THE FOLLOWING PAGES PRESENT THE

DETAILED PLANS FOR SOUTH WING OF EAST FAÇADE

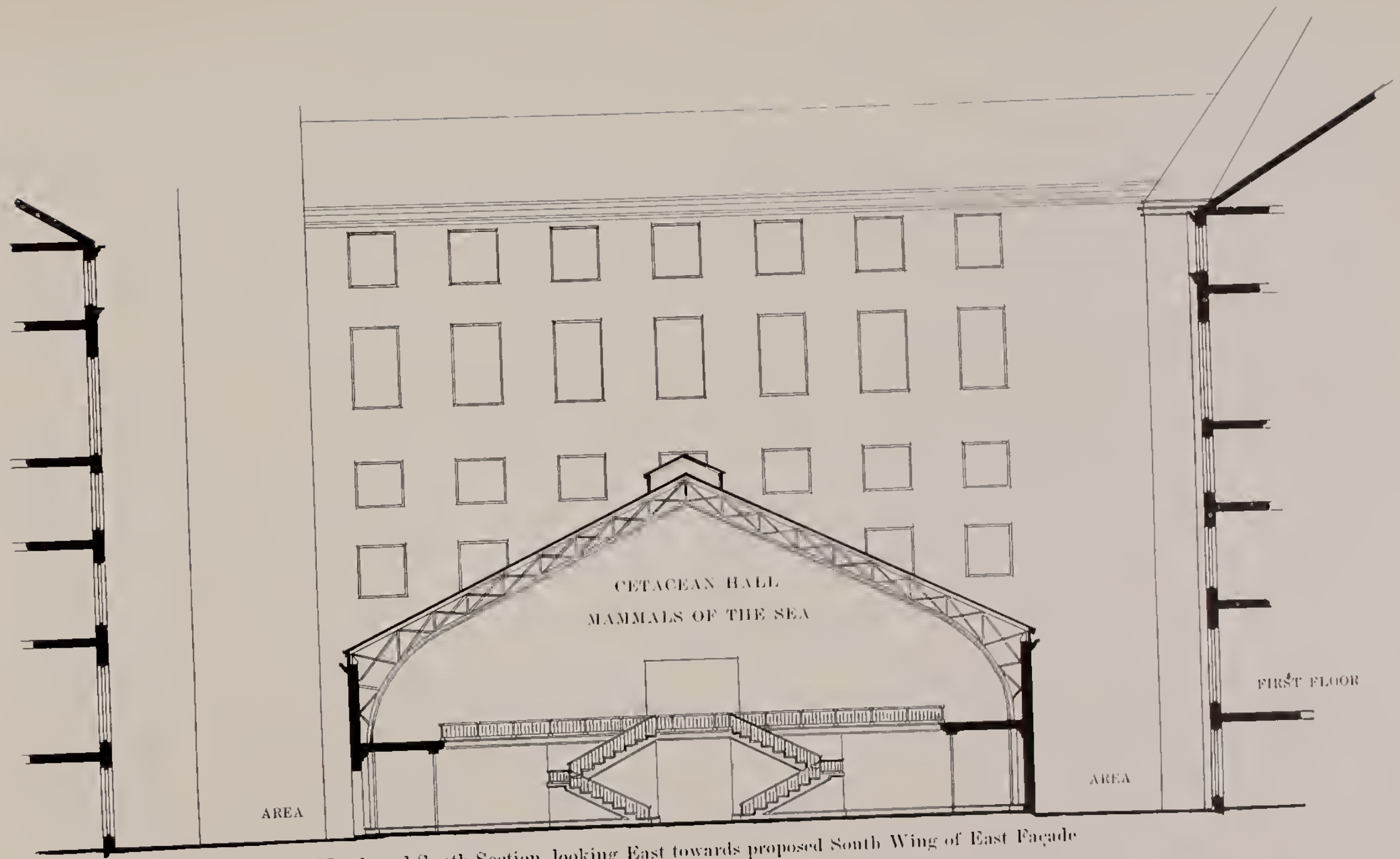
AND COURT BUILDING

PROPOSED FOR IMMEDIATE CONSTRUCTION

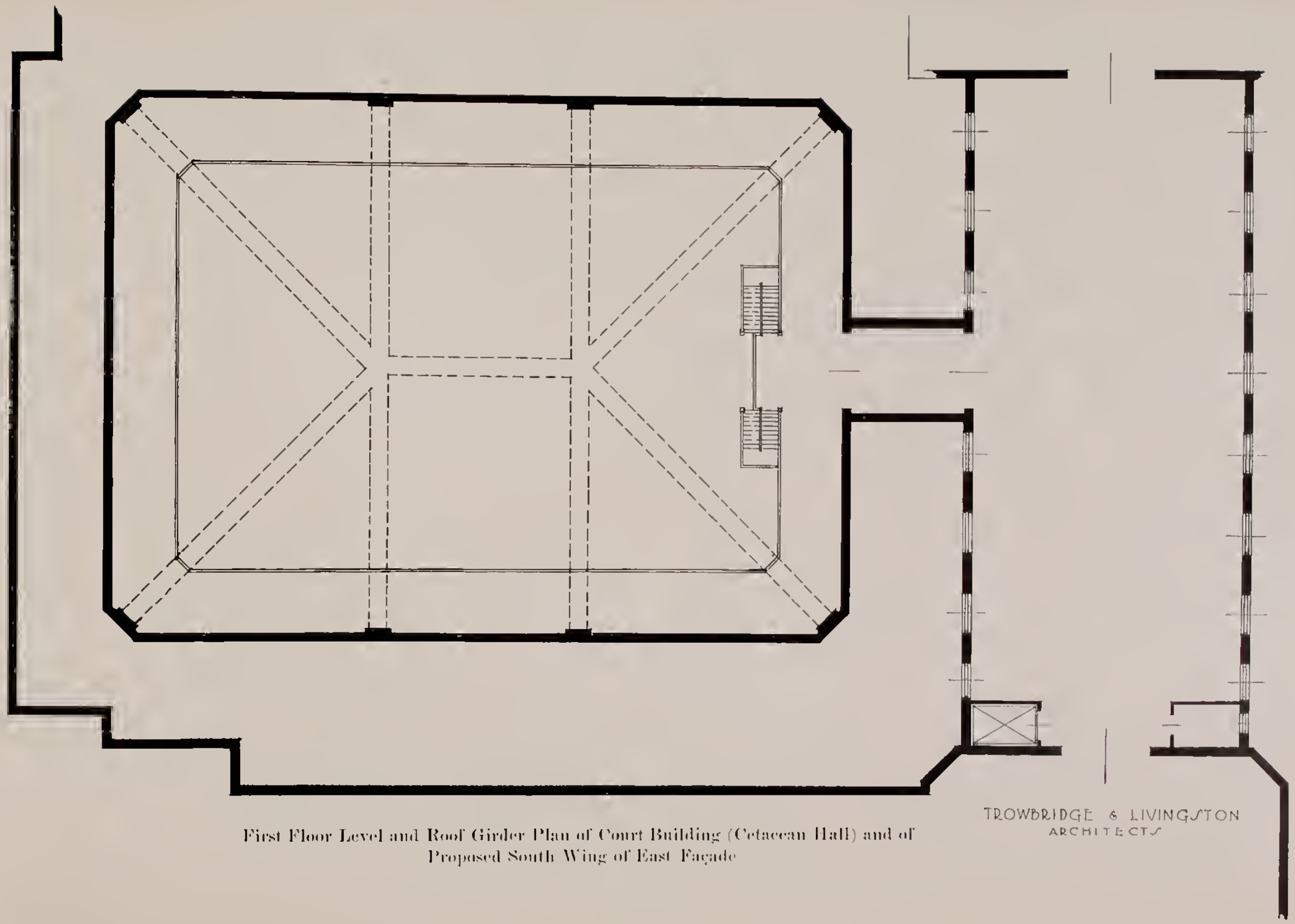
INCLUDING

ARRANGEMENT OF EXHIBITIONS UNTIL ADJOINING SECTIONS

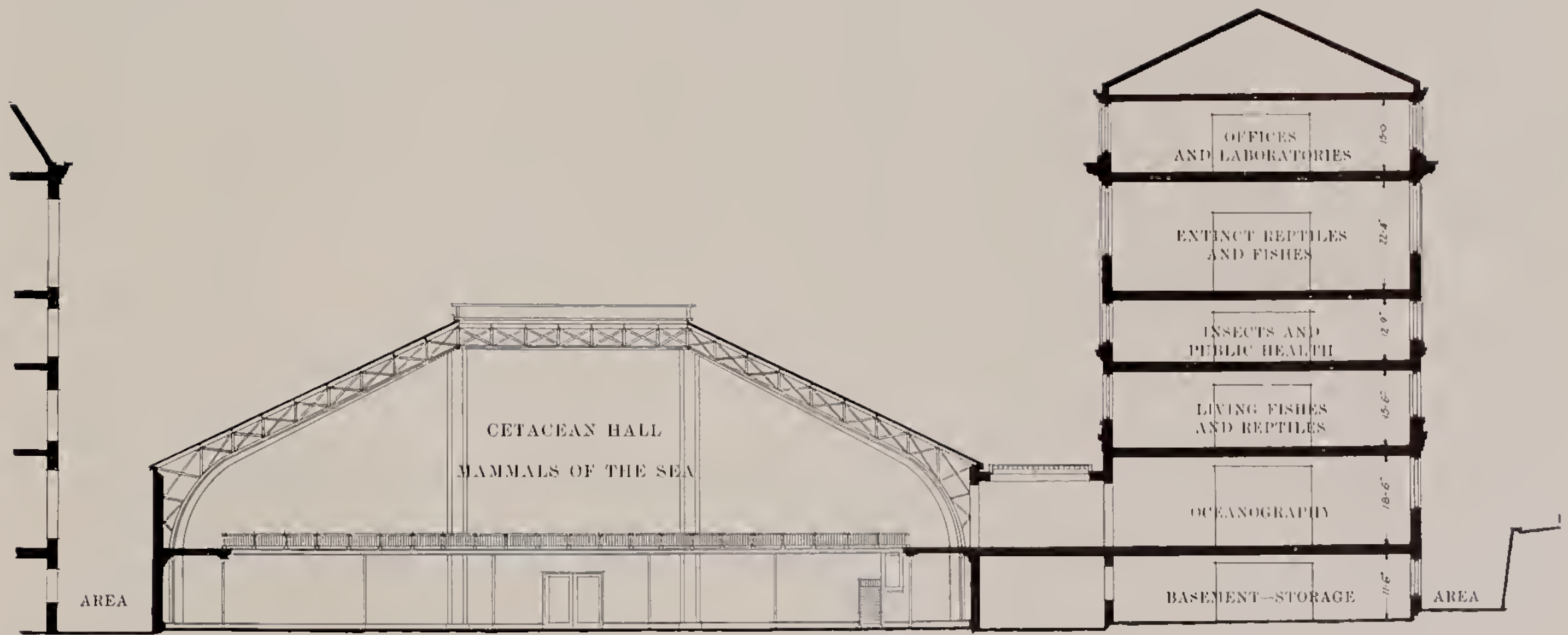
ARE CONSTRUCTED



North and South Section, looking East towards proposed South Wing of East Façade



First Floor Level and Roof Girder Plan of Court Building (Cetacean Hall) and of Proposed South Wing of East Façade



East and West Section through the Southeast Court, showing New Wing and Cetacean Hall

TROWBRIDGE & LIVINGSTON
ARCHITECTS

IRVING PRESS
NEW YORK

Growth of the Building
of the
American Museum of Natural History

Plans for Future Building
and
Arrangement of Collections

SECOND EDITION
MAY, 1912

STATISTICS TO ACCOMPANY

BUILDING PLANS

OF THE

AMERICAN MUSEUM OF NATURAL HISTORY

In connection with the application for an appropriation of $550,000 to complete the Southeast Wing and Court Building, the Trustees present to the Board of Estimate and Apportionment the following statistics relative to the operation of The American Museum of Natural History.

HENRY FAIRFIELD OSBORN,

President.

June 1, 1912.

AMERICAN MUSEUM OF NATURAL HISTORY

APPROPRIATIONS AND COST OF BUILDING

May 1, 1912

Period of Construction and Equipment	Amount	Construction Contract		Equipment and Furnishing	Fees	Total Cost
1876-77	$500,000.00	Iron Work	$287,841.50			
		Mason Work	131,483.00			
	200,000.00	Carpenter Work	38,915.76			
		Plastering, Plumbing, Slating and Tiling	41,091.00			
			499,331.26	$181,665.91	$19,002.83	$700,000.00
1888-91	400,000.00		354,186.77	27,062.18	18,751.05	400,000.00
1890-91	400,000.00		339,291.54	41,782.55	18,925.91	400,000.00
1893-95	350,000.00		330,900.00	1,507.53	17,592.47	350,000.00
1893	50,000.00			49,957.50	42.50	50,000.00
1894-95	200,000.00		184,750.00	5,732.85	9,517 15	200,000.00
1895-97	500,000.00					
	Prem. 11,775.00		334,900.00	152,727.82	24,147.18	511,775.00
1897-99	500,000.00					
	Prem. 29,002.50		364,500.00	142,846.51	21,655.99	529,002.50
1899-1900	500,000.00					
	Prem. 26,532.50		471,400.00	31,540.85	23,591.65	526,532.50
1900	350,000.00			332,500.00	17,500.00	350,000.00
1903-04	200,000.00					
	Prem. 1,136.10		189,299.00	2,063.17	9,773.93	201,136.10
1903-06	188,000.00					
	Prem. 1,284,21		145,009.00	37,236.74	7,038.47	189,284.21
1906-08	500,000.00					
	Prem. 11,090.63		351,600.00	133,983.08	25,507.55	511,090.63
1909	100,000.00					
	Prem. 1,000.54			101,000.54		101,000.54
1911	200,000.00*	Foundations	49,322.81		2,466.14	51,788.95
	75,000.00*			16,570.04		16,570.04
	$5,294,821.48		$3,614,490.38	$1,258,177.27	$215,512.82	$5,088,180.47

*Contracts and Orders pending will exhaust this appropriation.

TOTAL EXPENDITURES FOR 10 YEARS

	From Contributions by the City for Maintenance	From Contributions by Trustees and Friends of the Museum for Main. and Collections	GRAND TOTALS
1903	160,000.00	96,598.32	256,598.32
1904	160,000.00	86,302.38	246,302.38
1905	160,000.00	90,594.79	250,594.79
1906	170,000.00	126,065.35	296,065.35
1907	160,000.00	148,815.58	308,815.58
1908	159,930.62	135,785.26	295,715.88
1909	180,000.00	182,439.86	362,439.86
1910	185,757.00	186,364.87	372,121.87
1911	189,757.00	248,341.48	438,098.48
1912	195.000.00	263,761.60	458,761.60
	$1,720,444.62	$1,565,069.49	$3,285,514.11

The amount estimated for expenditures for 1912 is the approved Budget of $398,731.92 and available fuuds iu Special Funds as of May 1, 1912.

Estimated Expenditures for 1912	
From the City for Maiutenance	$195,000.00
From Contributions by Trustees and Friends of the Museum	263,761.60
Total from all sources	$458,761.60
The Total Contributions by Trustees and Friends exceed the City Appropriation of $195,000 by	$68,761.60

AMERICAN MUSEUM OF NATURAL HISTORY

MAINTENANCE OF MUSEUM BY JOINT EXPENDITURE OF CITY AND TRUSTEES

	Appropriations by the City	Appropriations by the Trustees †	TOTAL
1903	160,000.00	7,368.54	167,368.54
1904	160,000.00	8,158.69	168,158.69
1905	160,000.00	19,506.41	179,506.41
1906	170,000.00	2,924.04	172,924.04
1907	160,000.00	26,828.52	186,828.52
1908	159,930.62	33,475.97	193,406.59
1909	180,000.00	*36,652.01	216,652.01
1910	185,757.00	*43,502.38	229,259.38
1911	189,757.00	*64,131.10	253,888.10
1912	195,000.00	*80,900.00	275,900.00
	$1,720,444.62	$323,447.66	$2,043,892.28

*Beginning in 1909 the sums of money contributed by the Trustees have been paid direct from General Account.

†In the above column of 'Appropriations by the Trustees' *are included only* items which might legally (Statute of 1905) be paid by the City had appropriations been sufficient. Other administrative expenditures, field salaries, field expenses, pensions, publications, etc., *are not included.*

AMERICAN MUSEUM OF NATURAL HISTORY

ANALYSIS OF EXPENDITURES IN 1911

	BY THE CITY	By the Trustees and Friends of the Museum	TOTAL
General Administration and Maintenance	$176,266.22	$28,856.07	$205,122.29
Care of Exhibition Halls and Collections	1,919.97	38,824.64	40,744.61
Scientific Publication and Research		39,152.62	39,152.62
Library	7,640.00	9,666.20	17,306.20
Exploration and Purchase of Collections		92,880.16	92,880.16
Museum Extension System to Public Schools	3,930.81	7,024.58	10,955.39
	$189,757.00	$216,404.27	$406,161.27

AMERICAN MUSEUM OF NATURAL HISTORY

STATISTICS OF NUMBERS REACHED BY MUSEUM'S FREE EXTENSION SYSTEM IN 1910 AND 1911

	1910	1911
Board of Education Lectures	43,549	40,067
Children's Lectures	9,242	22,797
Children's Room and Mrs. Roesler's Special Lectures	6,368	7,138
Classes visiting the Museum for General Study	9,284	9,444
Meetings of Scientific Societies and other Meetings and Lectures	58,926	76,132
General Attendance for all purposes	613,152	724,141
Number of Pupils reached by Circulating Collections	839,089	1,253,435
	1,452,241	1,977,576

Growth of the Building
of the
American Museum of Natural History

Plans for Future Building
and
Arrangement of Collections

SECOND EDITION
MAY, 1912

Submitted to the
Trustees and Members of the Board of Estimate and Apportionment
by the
President and Building and Plans Committee
May 6, 1912

THE ARSENAL IN CENTRAL PARK. First Home of the Museum, 1870–1877

The Arsenal in Central Park

FIRST HOME OF THE MUSEUM, 1870–1877

Site—Second and third floors of the Arsenal.

President—John David Wolfe.

Mayor—A. Oakey Hall.

Comptroller—Andrew H. Green.

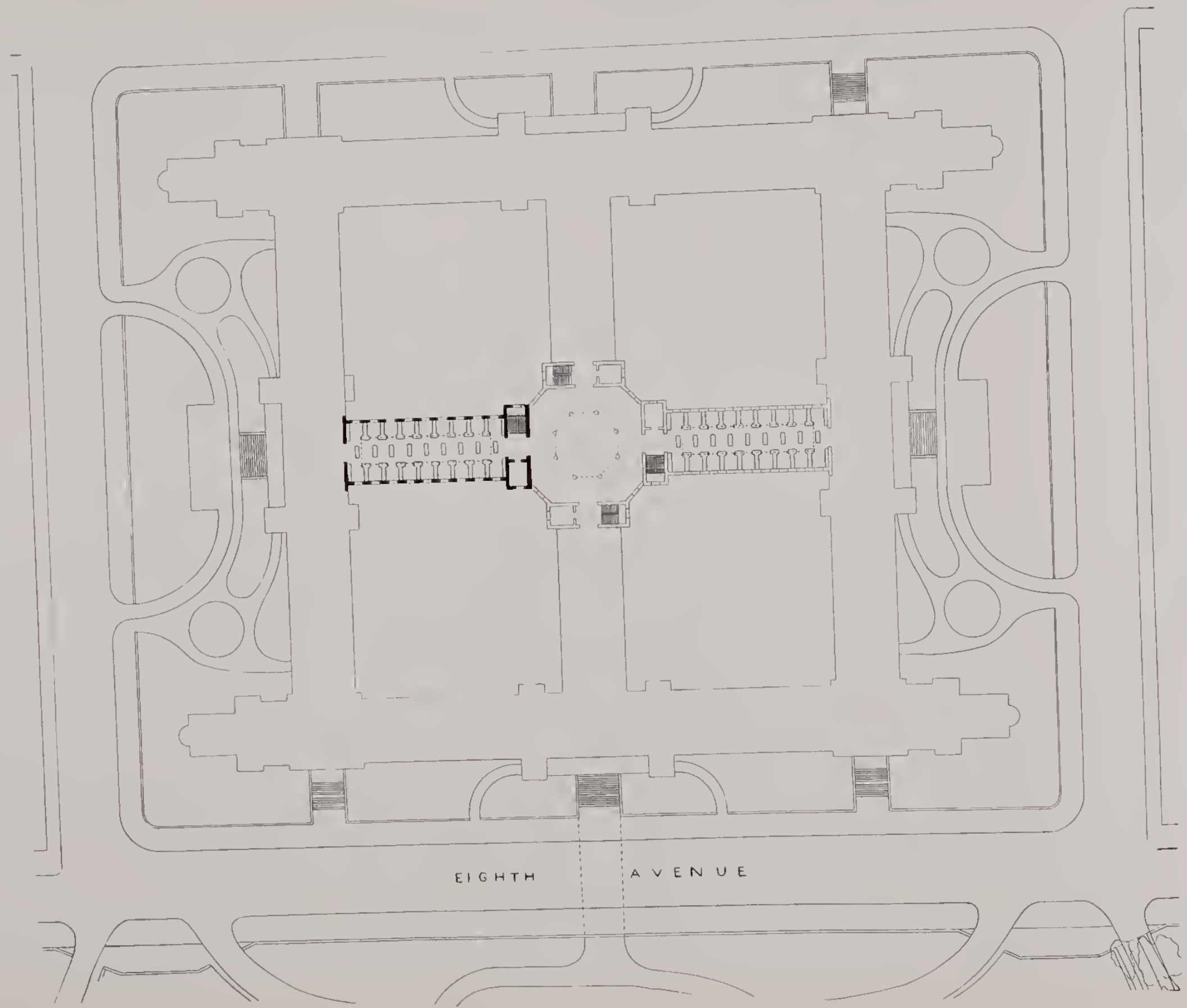
The American Museum of Natural History was founded and incorporated in 1869 for the purpose of establishing and maintaining a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction. For eight years its temporary home was in the Arsenal in Central Park.

PREPARATION OF PERMANENT PLANS

In 1871 the Legislature passed an act authorizing the Department of Parks to contract for, erect, and maintain in and upon that portion of the Central Park known as Manhattan Square, or any other public park, square or place in said city, a suitable fireproof building for the purpose of establishing and maintaining therein, under rules and regulations to be prescribed by the said Board from time to time, a museum of natural history to be occupied by the American Museum of Natural History.

Manhattan Square was finally chosen as the site of the Museum building. It comprises about eighteen acres of land, and at that time was quite inaccessible from the lower part of the city. Several architects were invited to submit designs for the building, and finally Calvert Vaux was selected as the architect. His design contemplated for the entire edifice a hollow square whose sides were to be formed of four great buildings 700 feet long, ornate in material and detail, and distinguished by large entrances of architectural dignity and strength.

In general the plan of Mr. Vaux is one that is being followed at the present time.


EIGHTH AVENUE

FACSIMILE OF INDORSEMENT OF OLMSTED PLAN OF MANHATTAN SQUARE
ON OPPOSITE PAGE

DIAGRAM

Indicating proposed modification of the design of Central Park, in adaptation to requirements growing out of the proposed improvements on Manhattan Square.

September 17th 1875

Fred. Law Olmsted
Landscape Architect.

In Board, September 17. 1875

Approved and the design provisionally adopted, except in respect to the archway, foot approaches to Manhattan Square.

Wm Irwin
Secretary D. P. P.

THE MUSEUM. South Transept. The first portion of the Museum and a part of Manhattan Square as they appeared in 1877–1889

The Museum—South Transept

President—Robert L. Stuart.

Mayors—A. Oakey Hall (1869–1872). William H. Wickham (1875–1876).

Comptroller—Andrew H. Green.

Park Commissioner—Henry G. Stebbins (1871).

Corner-stone laid by President U. S. Grant, June 2, 1874.

Construction period, 1874–1877.

Appropriation by the City, Chapter 290, Laws of 1871 - - -		$500,000.00	
Appropriation by the City, Chapter 315, Laws of 1875 - - -		200,000.00	$700,000.00
Contract price for iron work - - - - -	$287,841.50		
Contract price for mason's work - - - -	131,483.00		
Balance for plastering, plumbing, heating, lighting, tiling, cases, painting, etc. - - - - -	280,675.50		$700,000.00

Contract awarded, July 24, 1873.

Last payment, August 2, 1877.

Floor area, 71,426 square feet, including cellar and attic used as storage rooms.

Architect—Calvert Vaux.

THE MUSEUM. Central Section of South Façade, 1889-1893

Central Section of South Façade

(SOUTH ENTRANCE)

President—Morris K. Jesup.

Mayors—Abram S. Hewitt (1887–1888). Hugh J. Grant (1889–1892).

Comptrollers—Edward V. Loew (1887). Theodore W. Meyers (1889–1893).

Park Commissioners—M. C. D. Borden (1887). J. Hampden Robb (1889).

Appropriation by the City, Chapter 44, Laws of 1887, for Central Section and East Transept - - - - - - - - -		$400,000.00	
Appropriation by the City, Chapter 89, Laws of 1889, for West Transept, stoop and entrance - - - - - - - - -		400,000.00	$800,000.00
Contract price for building Central Section and East Transept -	$338,254.50		
Balance for excavation, cases, etc. - - - -	61,745.50	$400,000.00	
Contract awarded, October 8, 1888.			
Last payment, May 12, 1891.			
Contract price for building West Transept, stoop and entrance	$339,291.54		
Balance for cases, fees, etc. - - - - -	60,708.46	400,000.00	$800,000.00
Contract awarded, February 4, 1890.			
Last Payment, September 23, 1891.			

Floor area, 69,405 square feet, including cellar and attic used for storage.

Architect—J. C. Cady & Co.

THE MUSEUM. East Wing of South Façade, 1893-1895

East Wing of South Façade

President—Morris K. Jesup.

Mayors—Hugh J. Grant (1889–1892). Thomas F. Gilroy (1893–1894).

Comptrollers—Theodore W. Meyers (1889–1893). Ashbel P. Fitch (1894–1897).

Park Commissioners—Paul Dana (1892). A. B. Tappen (1893). George C. Clausen (1894).

Appropriation by the City, Chapter 423, Laws of 1892 - - -		$350,000.00	
Appropriation by the City, Chapter 448, Laws of 1893 - - -		*50,000.00	
Appropriation by the City, Chapter 63, Laws of 1894 - - -		†200,000.00	$600,000.00
Contract price for building - - - - -	$330,900.00		
Balance for fees, etc. - - - - - -	19,100.00	$350,000.00	
Contract awarded, July 19, 1893.			
Last payment, August 26, 1895.			
Reimbursement amount - - - - -	$48,103.36		
Balance for fees, etc. - - - - - -	1,896.64	50,000.00	
Contract price for building - - - - -	$184,750.00		
Balance for fees, etc. - - - - - -	15,250.00	200,000.00	$600,000.00
Contract awarded, June 29, 1894.			
Last payment, September 3, 1895.			

Floor area, 52,998 square feet, including cellar used for storage.

Architect—J. C. Cady & Co.

* This amount was paid to the Trustees in reimbursement for payments made for several years for cases, repairs, etc., to various portions of entire building.

† Completion of enlargement (refers principally to the East Wing).

Southwest Corner Wing — West Wing — Central Section—South Entrance — East Wing — Southeast Corner Wing

THE MUSEUM. South Façade. Exterior completed in 1899

West Wing of South Façade

President—Morris K. Jesup.
Mayor—William L. Strong.
Comptroller—Ashbel P. Fitch.
Park Commissioner—David H. King.

Appropriation by the City for West Wing, Chapter 235, Laws of 1895 -		$500,000.00	
Premium from sale of bonds - - - - - - -		11,775.00	$511,775.00
Contract for building - - - - - -	$344,900.00		
Balance for cases, fees, repairs, etc. - - - -	166,875.00		$511,775.00

Contract awarded, October 1, 1895.
Last payment, June 28, 1897.
Floor area, 52,998 square feet, including cellar used for storage.

Architect—J. C. Cady & Co.

Southeast Corner Wing

President—Morris K. Jesup.

Mayor—William L. Strong.

Comptroller—Ashbel P. Fitch.

Park Commissioner—S. Van Rensselaer Cruger.

Appropriation by the City for Southeast Corner Wing, Chapter 175, Laws of 1896		$500,000.00	
Premium from sale of bonds		29,002.50	$529,002.50
Contract for building	$364,500.00		
Balance for cases, repairs, fees, etc.	164,502.50		$529,002.50

Contract awarded, September 2, 1897.

Last payment, December 7, 1899.

Floor area, 49,416 square feet, including cellar and two atties used for storage.

Architect—Cady, Berg & See.

Southwest Corner Wing

President—Morris K. Jesup.
Mayor—William L. Strong.
Comptroller—Ashbel P. Fitch.
Park Commissioner—Samuel McMillan.

Appropriation by the City for Southwest Corner Wing and Lecture Hall, Chapter 213, Laws of 1897 - - - - - - -		$500,000.00	
Premium on sale of bonds - - - - - - -		26,532.50	$526,532.50
Contract price for Southwest Wing - - - - -	$362,500.00		
Contract price for Lecture Hall - - - - - -	108,900.00		
Balance used for fees, furnishing, repairs, etc. - - -	55,132.50	$526,532.50	

Contract awarded for Southwest Wing, October 11, 1897.
Last payment for Southwest Wing, December 8, 1899.
Contract awarded for Lecture Hall, October 6, 1899.
Last payment, 1900.
Floor area of Southwest Corner Wing, including two attics used for storage, 49,116 square feet.
Floor area of Lecture Hall, 15,954 square feet.
Seating capacity of Lecture Hall, 1,500.

Architect—Cady, Berg & See.

Supplementary Equipment and Casing of South Façade

President—Morris K. Jesup.
Mayor—Robert A. Van Wyck.
Comptroller—Bird S. Coler.
Park Commissioner—George C. Clausen.

Appropriation by the City for the completion of buildings, cases, painting, tiling, pedestals, and equipping new building (Southwest Wing), as the contract was for the building without sash, trim, tile, painting, etc., and also for the repairs and alterations to all the buildings constructed at that time, Chapter 185, Laws of 1900 - - - -	$350,000.00

THE MUSEUM.—REAR VIEW OF BUILDING. ⊕ Heating and Lighting Plant. (+) Lecture Hall

Heating and Lighting Plant

President—Morris K. Jesup.
Mayor—Seth Low.
Comptroller—Edward M. Grout.
Park Commissioner—William R. Willcox.

Appropriation by the Board of Aldermen for the construction and installation of a new Heating and Lighting Plant, July 22, 1902 - - -		$200,000.00	
Premium from sale of bonds - - - - - - -		1,136.10	$201,136.10
Contract price for building - - - - -	$189,299.00		
Balance for fees, etc. - - - - - -	11,837.10		$201,136.10

Floor area of Engine Room, 13,206 square feet.
Floor area of Pump and Boiler Room, 8,091 square feet.
Floor area of Approaches, 6,288 square feet.
Contract awarded, May 18, 1903.
Last payment, November 14, 1904.
Architect—Charles Vodz.

Supplementary Equipment, Casing and Construction

President—Morris K. Jesup.
Mayor—Seth Low.
Comptroller—Edward M. Grout.
Park Commissioner—William R. Willcox.

Appropriation by the Board of Aldermen for the completion of the unfinished portions of the building, June 16, 1903 - - - - - -		$188,000.00	
Premium from sale of bonds - - - - - - -		1,284.21	$189,284.21

THE MUSEUM. South Wing of West Façade

South Wing of West Façade, Service Road and Fire Lines

President—Morris K. Jesup.

Mayor—George B. McClellan.

Comptroller—Edward M. Grout.

Park Commissioner—John J. Pallas.

Appropriation by the Board of Aldermen for the equipping and finishing of the buildings and the construction of additions thereto, April 11, 1905		$500,000.00	
Premium from sale of bonds - - - - - - -		11,090.63	$511,090.63
Contract price for South Wing of West Façade - - -	$325,600.00		
Contract price for Service Road - - - - -	26,000.00		
Contract price for Fire Lines (entire South Façade) - -	19,838.00		
Balance for equipment, etc. - - - - -	139,652.63		$511,090.63

Main contract awarded, May 22, 1906.

Last payment, June 6, 1908.

Floor area, 64,163 square feet, including cellar and attics used for storage and workshops.

Architect—Charles Volz.

Casing, Equipment and Construction, Chiefly of South Section of West Façade

President—Henry Fairfield Osborn.

Mayor—William J. Gaynor.

Comptroller—William A. Prendergast.

Park Commissioner—Charles B. Stover.

Appropriation by the Board of Aldermen, July 13, 1909 - - - - - $100,000.00

THE MUSEUM IN 1912

Summary of Appropriations and Floor Areas, 1869-1912

	Appropriations and Premiums		
Chapter 290, Laws of 1871 - -	$500,000.00	South Transept -	71,426 square feet
Chapter 315, Laws of 1875 - -	200,000.00		
Chapter 44, Laws of 1887 - -	400,000.00	South Entrance -	69,405 square feet
Chapter 89, Laws of 1889 - -	400,000.00		
Chapter 185, Laws of 1900 - -	350,000.00		
Chapter 423, Laws of 1892 - -	350,000.00	East Wing - -	52,998 square feet
Chapter 448, Laws of 1893 - -	*50,000.00		
Chapter 63, Laws of 1894 - -	200,000.00		
Chapter 235, Laws of 1895 - -	511,775.00	West Wing - -	52,998 square feet
Chapter 175, Laws of 1896 - -	529,902.50	Southeast Corner Wing	49,416 square feet
		Southwest Corner Wing	49,416 square feet
Chapter 213, Laws of 1897 - -	526,532.50	Lecture Hall - -	15,954 square feet
		Heating and Lighting Plant	21,300 square feet
Ordinance, Board of Aldermen, July 22, 1902	201,136.10	Approaches - -	6,288 square feet
Ordinance, Board of Aldermen, June 16, 1903	**189,284.21		
Ordinance, Board of Aldermen, April 11, 1905	511,090.63	South Wing, West Façade	64,163 square feet
Ordinance, Board of Aldermen, July 13, 1909	101,000.54		
			453,364 square feet
			or 10.407 acres of erected buildings
Ordinance, Board of Aldermen, July 31, 1911	200,000.00	For construction of a foundation for the Southeast Wing and Court Building	
Ordinance, Board of Aldermen, July 31, 1911	75,000.00	For permanent improvements	
Grand total - - -	$5,294,821.48		

* This amount was paid to the Trustees in reimbursement for payments made for several years for cases, repairs, etc., to various portions of entire building.

** This amount was expended for the completion of the unfinished portions of the building.

Comparative Cost of Public Buildings

American Museum of Natural History, New York, to 1912	85,294,821.48
Metropolitan Museum of Art, New York, to 1912	5,882,000.00
Brooklyn Institute of Arts and Sciences	3,265,054.69
New York Zoölogical Park	2,139,500.00
New York Public Library	9,000,000.00
College of the City of New York, including grounds and equipment	5,500,000.00
New Municipal Building, New York	15,000,000.00
Speedway	3,095,000.00
Hall of Records, New York	5,613,699.00
School Buildings of New York City—Total for Construction and Equipment 1895–1911	102,816,886.37
Carnegie Institute, Pittsburgh, Pa.	6,120,000.00
Library of Congress, Washington, D. C.	6,347,000.00
United States National Museum, Washington, D. C.	3,500,000.00

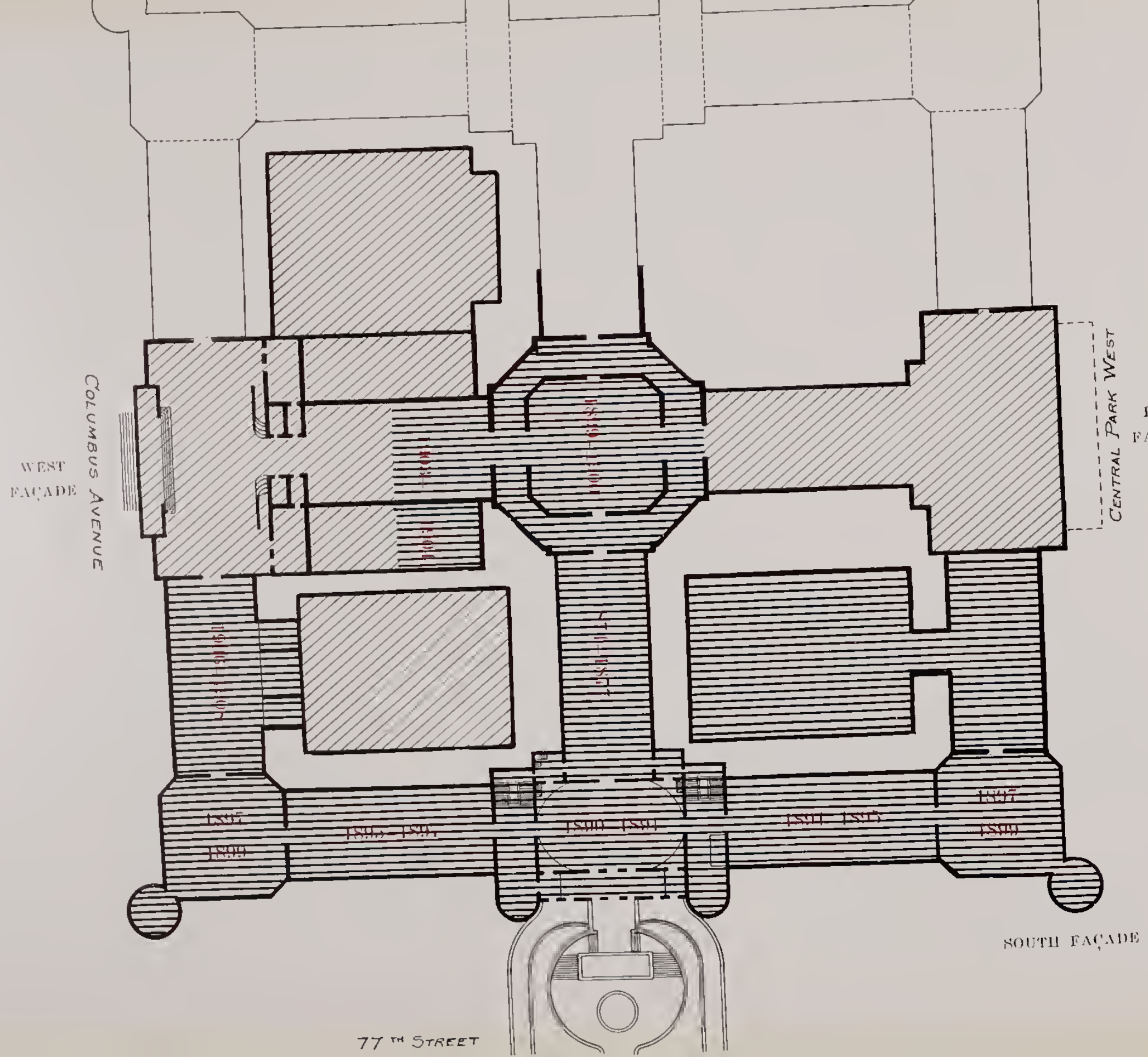
Design for new East Façade of The Museum facing Central Park

(Preliminary Sketch by Trowbridge & Livingston, Architects, submitted to the Trustees May 8, 1911)

Plans for Extension of the Museum

The design presented on the opposite page is a preliminary study by Messrs. Trowbridge and Livingston, architects, for the new East Façade of the Museum, facing Central Park. The design has not been adopted either by the Committee on Building and Plans or by the Trustees, but its preparation at this stage is welcomed because of the opportunity which it affords for a prolonged and careful consideration of the artistic requirements of a monumental building, and of the scientific and educational requirements of ideally related exhibits within the building. The design of the East Façade contemplates the future incorporation of the Museum within the general design of Central Park by the construction of a broad entrance roadway from the West Drive.

In the design of this Eastern Façade, the architects have endeavored to retain the general Romanesque architecture of the Southern Façade, while modifying it in the direction of greater simplicity. It is obvious that a building of the vast proportions contemplated in the original plans of Calvert Vaux in 1871, and authorized by the Legislature in connection with the setting aside of Manhattan Square, must have an entrance of monumental size, and that this entrance must have a broad and dignified avenue of approach.


Columbus Avenue
West Façade
Central Park West
East Façade
South Façade
77 th Street
1897
1899
1899–1904
1900–1904
1900–1904
1904–1907
1907–1910
1907–1910
1907
1909

GROUND PLAN
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
Horizontal ruling - Completed or contracted for
Oblique ruling - Projected (1912)
Blank - - - Future

Building Plan Adopted by Trustees

Extract from the Minutes of the Meeting of May 8, 1911:

RESOLVED, That the Trustees hereby adopt the general features of the ground plan for the extension of the Museum, as recommended in the President's *Plan and Scope Report*, as approved by the Building and Plans Committee of 1910 and as presented by the Building and Plans Committee of 1911.

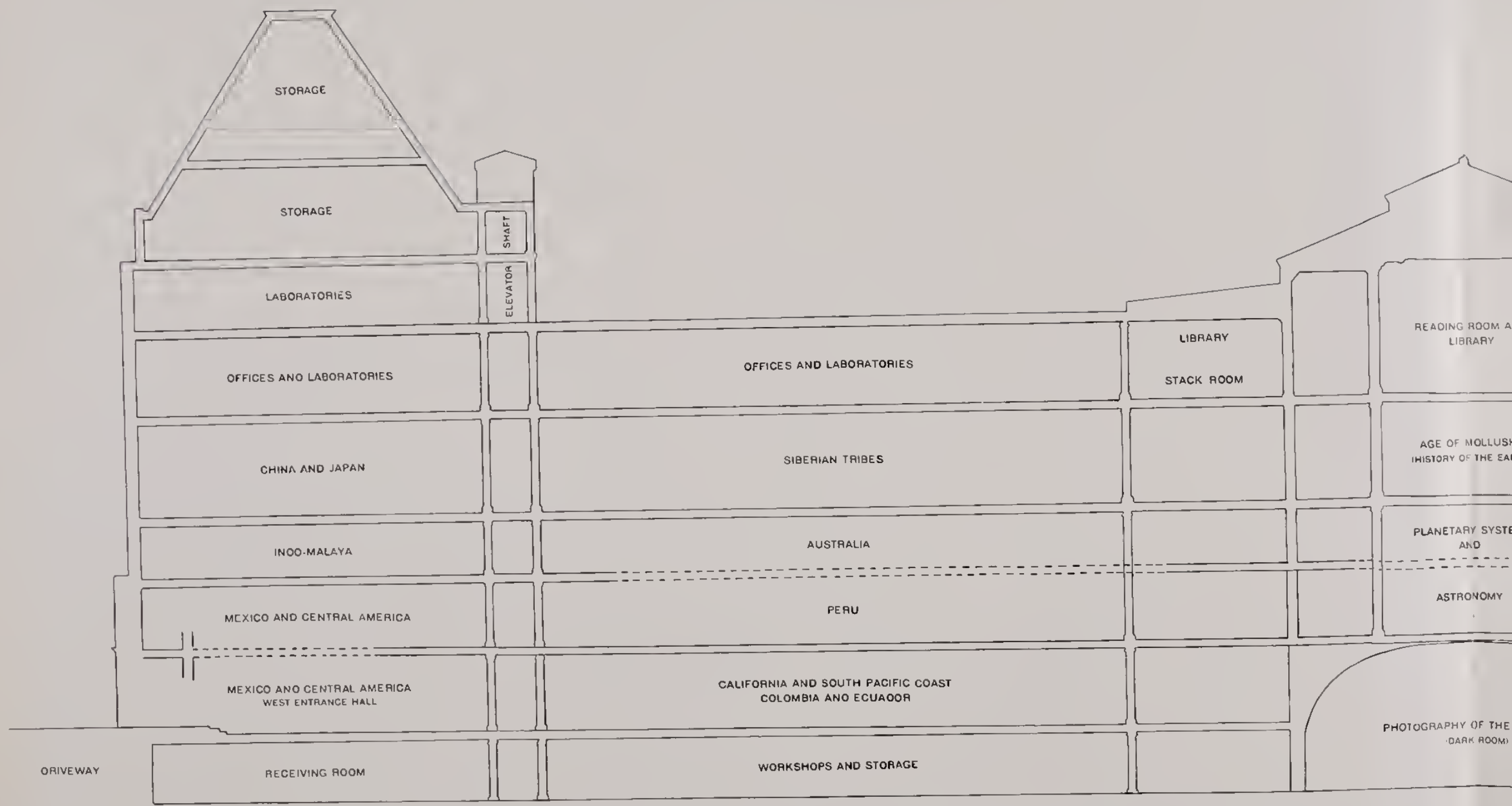
RESOLVED, That the Executive Committee is hereby empowered to present this ground plan to the Board of Estimate and Apportionment at their coming meeting as expressing the judgment of the Trustees as to the wisest development of the Museum building during the next decade.

That the Trustees recommend to the Board of Estimate and Apportionment the construction of the building surrounding the two south courts, namely:

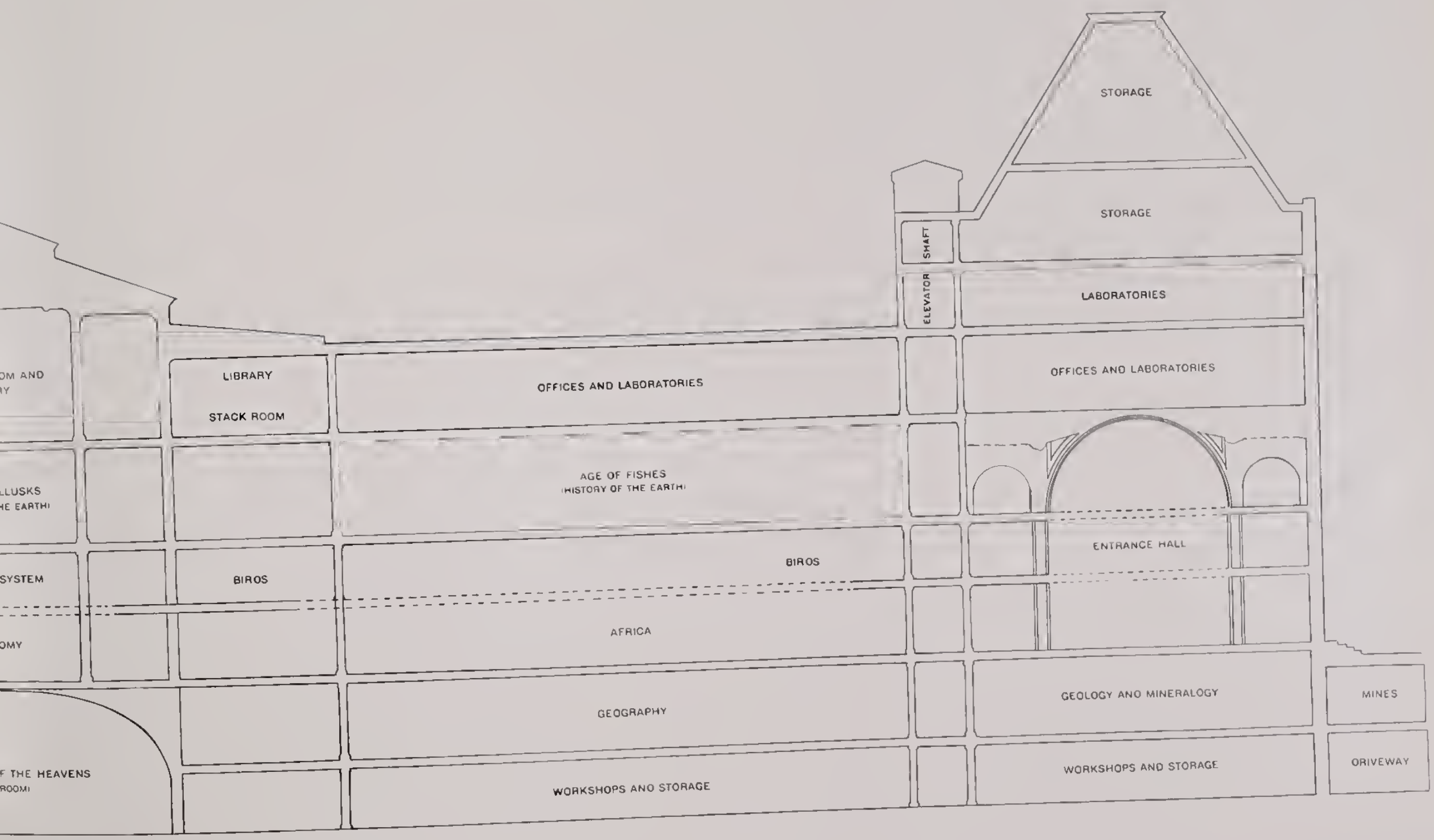
1. Southeast Wing and Court Building of the East Façade,
2. West Façade Entrance,
3. West Transept,
4. East Transept,
5. East Façade Entrance,
6. Central Rotunda,

in time to celebrate the fiftieth anniversary of the founding of the Museum in 1919, by the opening of the East Façade Entrance.

That the Trustees recommend the immediate erection of the Southeast Wing and Southeast Court Building.



EAST AND WEST SECTION THROUGH CI



CENTER OF PROPOSED BUILDING

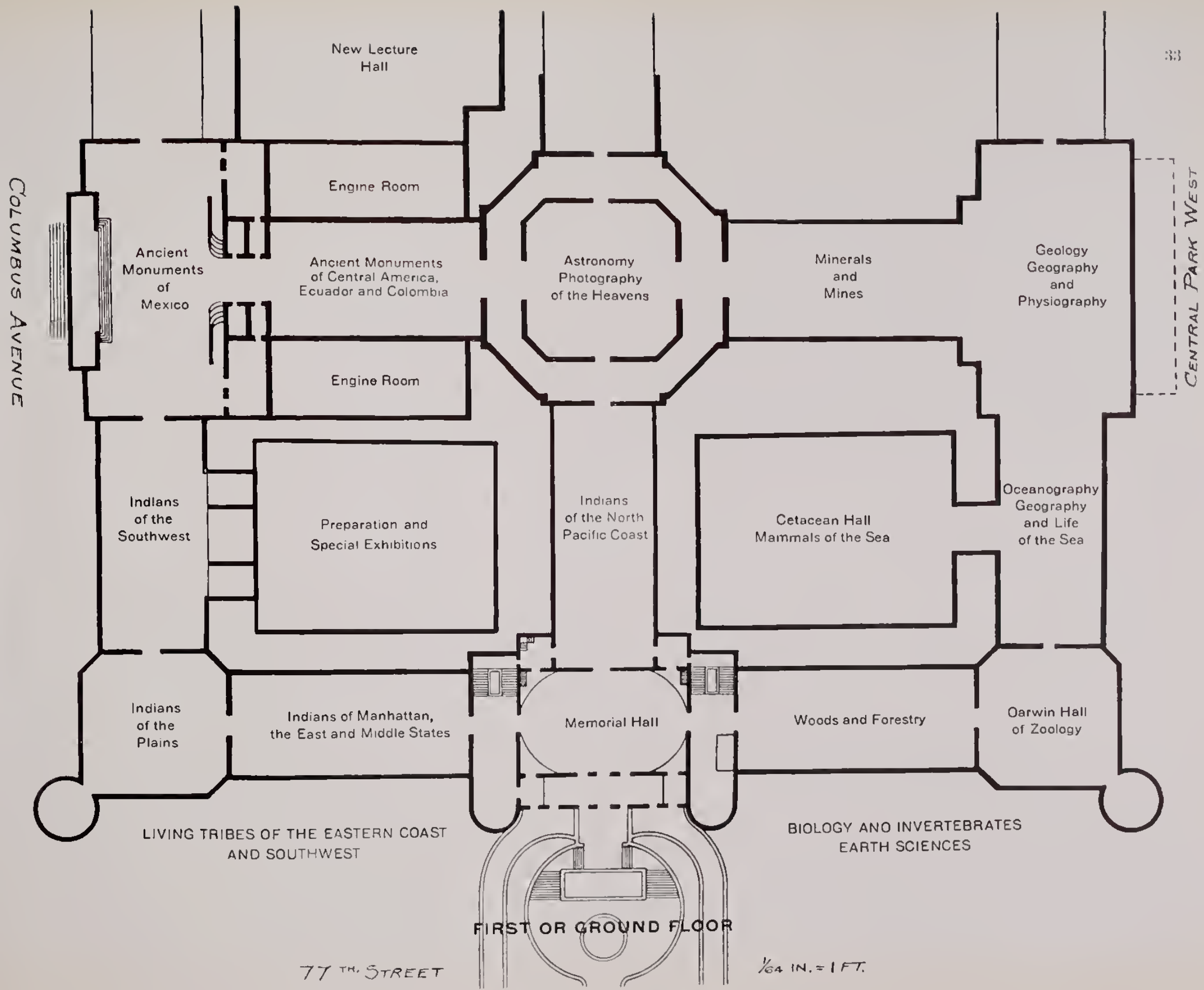
THE FOLLOWING PAGES PRESENT THE

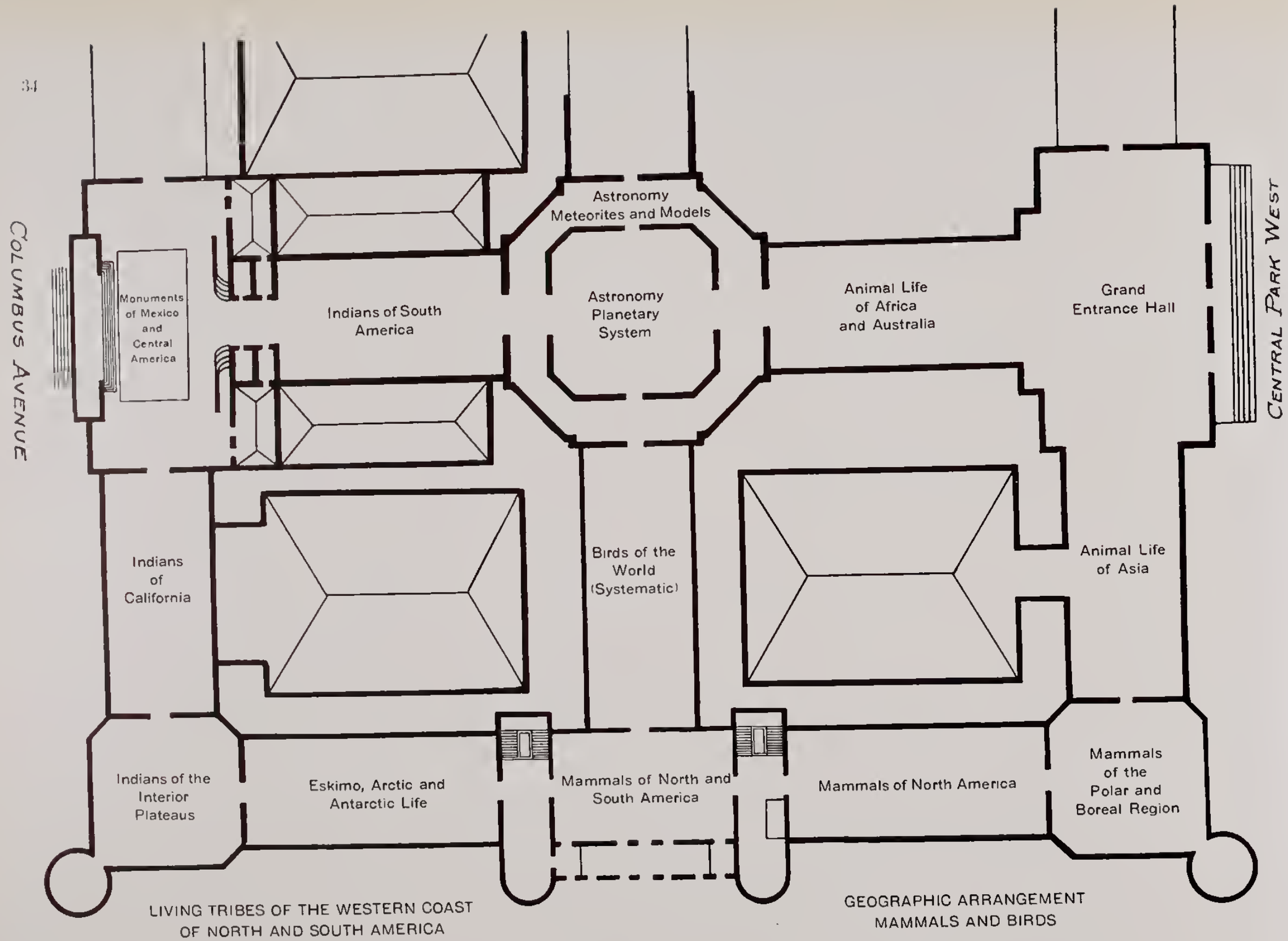
PROPOSED ARRANGEMENT OF EXHIBITS AND COLLECTIONS

IN THE

BUILDING AS CONSTRUCTED AND AS PROJECTED FOR THE

IMMEDIATE FUTURE

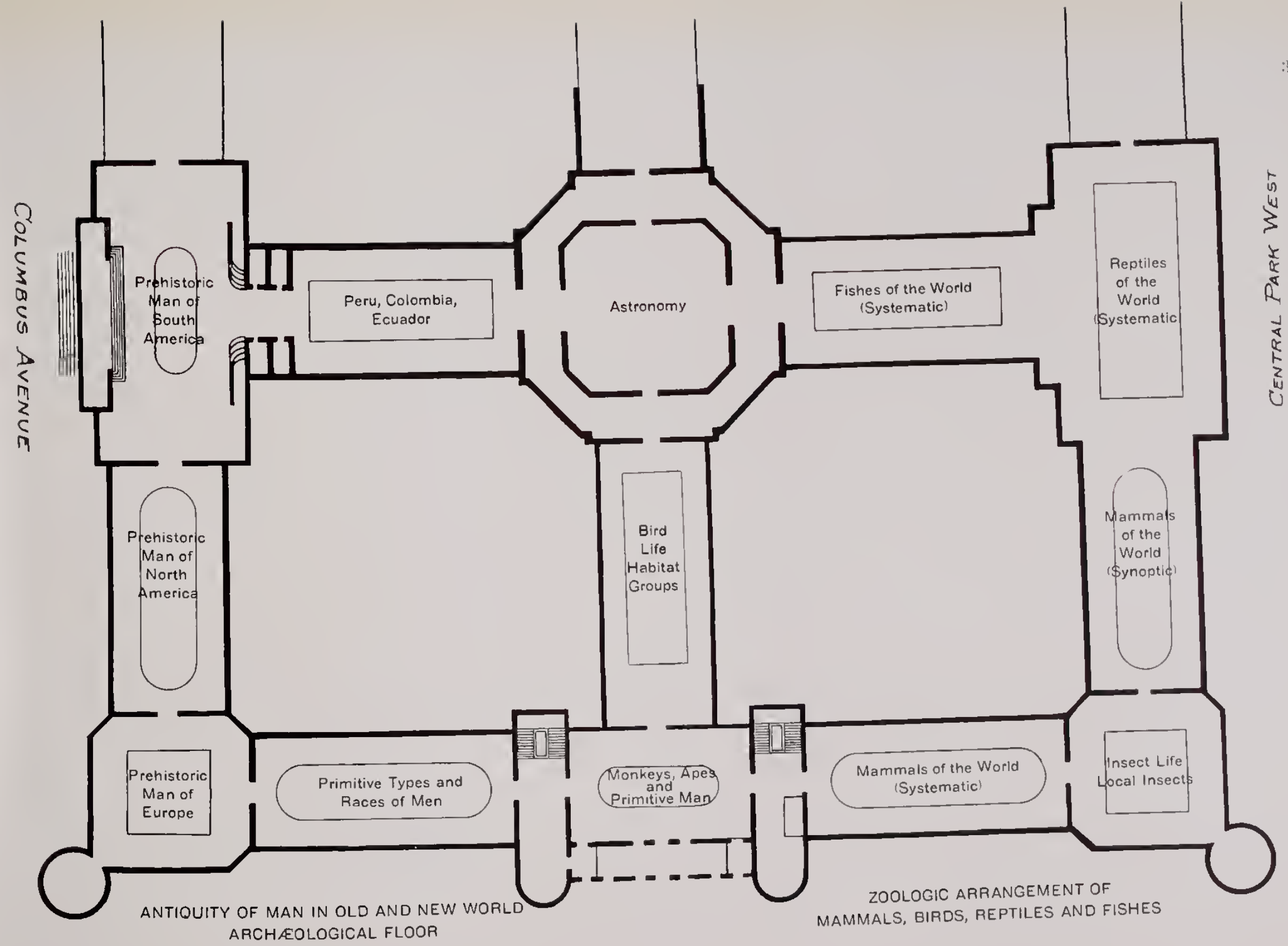

New Lecture Hall
Engine Room
Ancient Monuments of Mexico
Ancient Monuments of Central America, Ecuador and Colombia
Astronomy Photography of the Heavens
Minerals and Mines
Geology Geography and Physiography
Engine Room
Indians of the Southwest
Preparation and Special Exhibitions
Indians of the North Pacific Coast
Cetacean Hall Mammals of the Sea
Oceanography Geography and Life of the Sea
Indians of the Plains
Indians of Manhattan, the East and Middle States
Memorial Hall
Woods and Forestry
Darwin Hall of Zoology
LIVING TRIBES OF THE EASTERN COAST AND SOUTHWEST
BIOLOGY AND INVERTEBRATES EARTH SCIENCES
FIRST OR GROUND FLOOR
77 TH. STREET
1/64 IN. = 1 FT.
COLUMBUS AVENUE
CENTRAL PARK WEST



SECOND FLOOR

77 TH. STREET

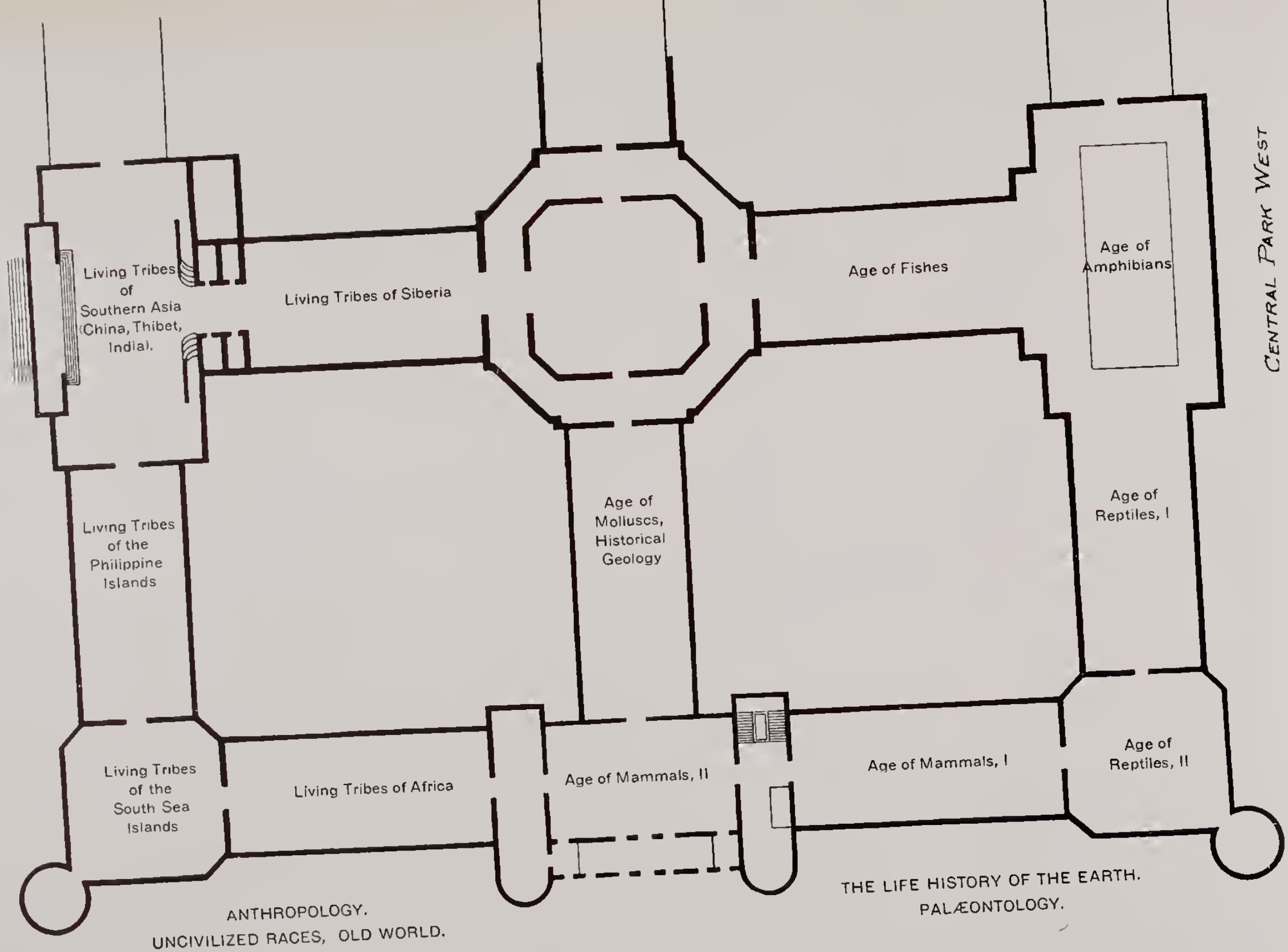
1/64 IN. = 1 FT.



THIRD FLOOR

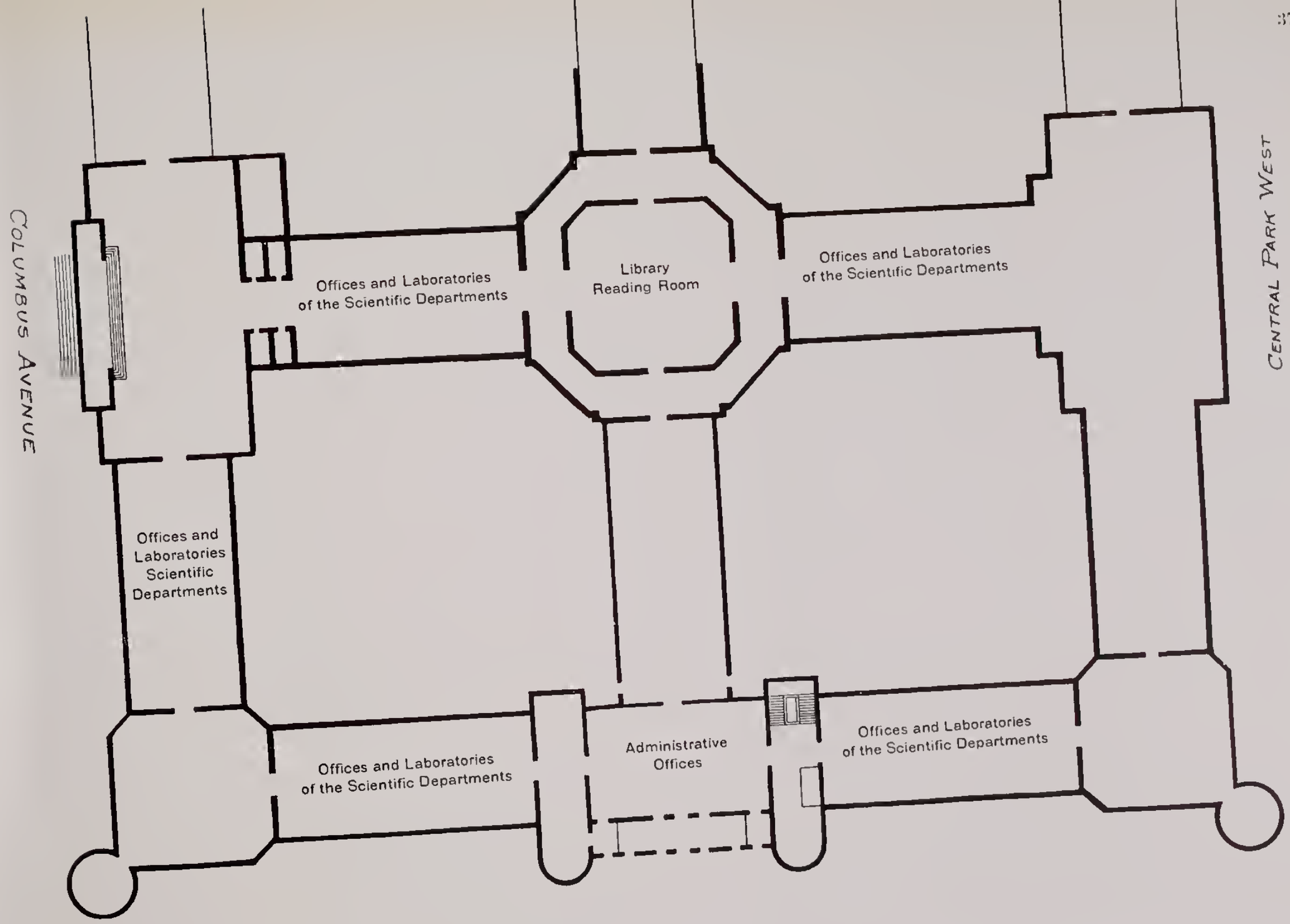
77 TH. STREET

1/64 IN. = 1 FT.



FOURTH FLOOR

1/64 IN. = 1 FT.



FIFTH FLOOR

1/64 IN = 1 FT.

77 TH STREET

THE FOLLOWING PAGES PRESENT THE

DETAILED PLANS FOR SOUTH WING OF EAST FAÇADE

AND COURT BUILDING

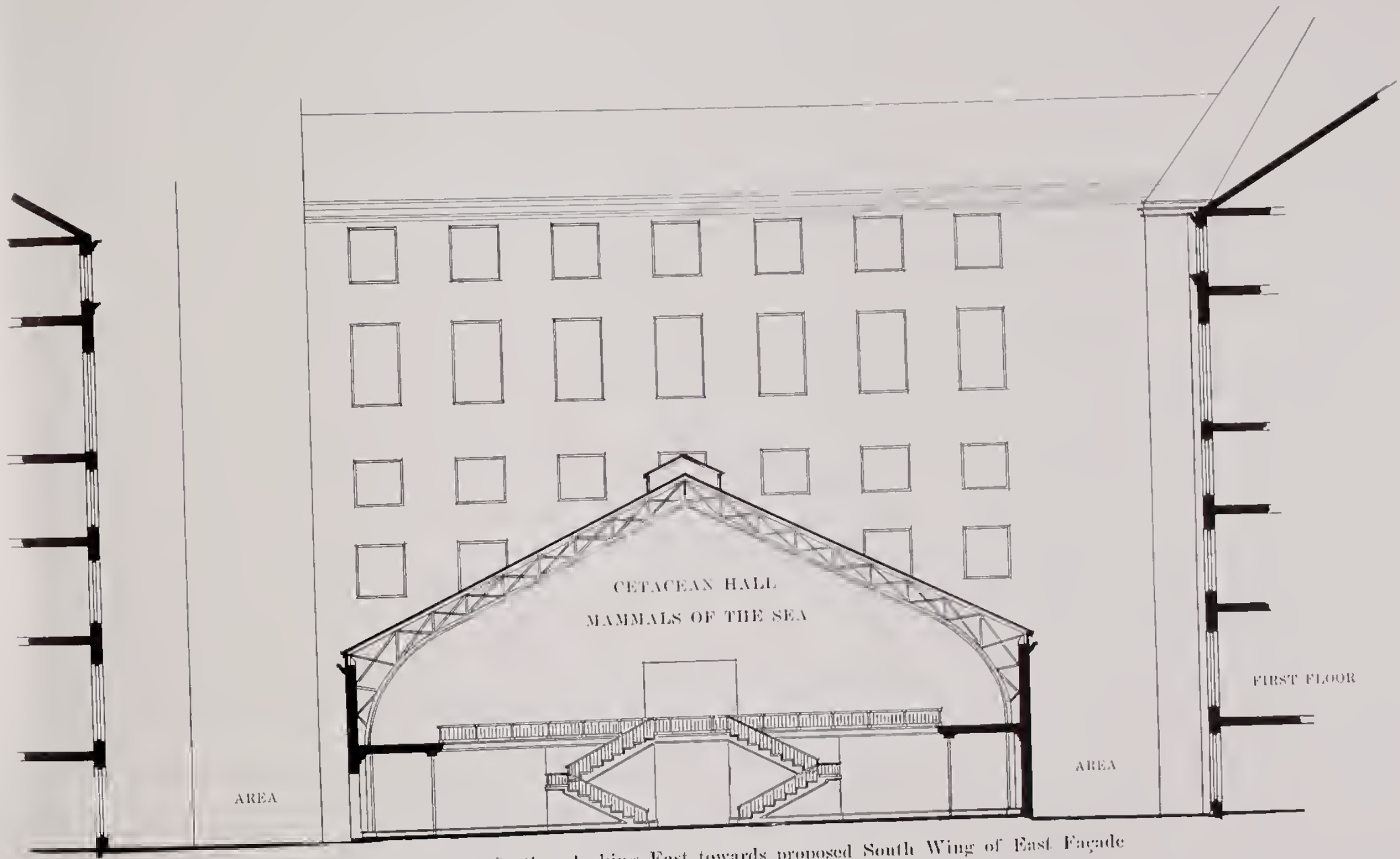
NOW UNDER CONSTRUCTION

INCLUDING

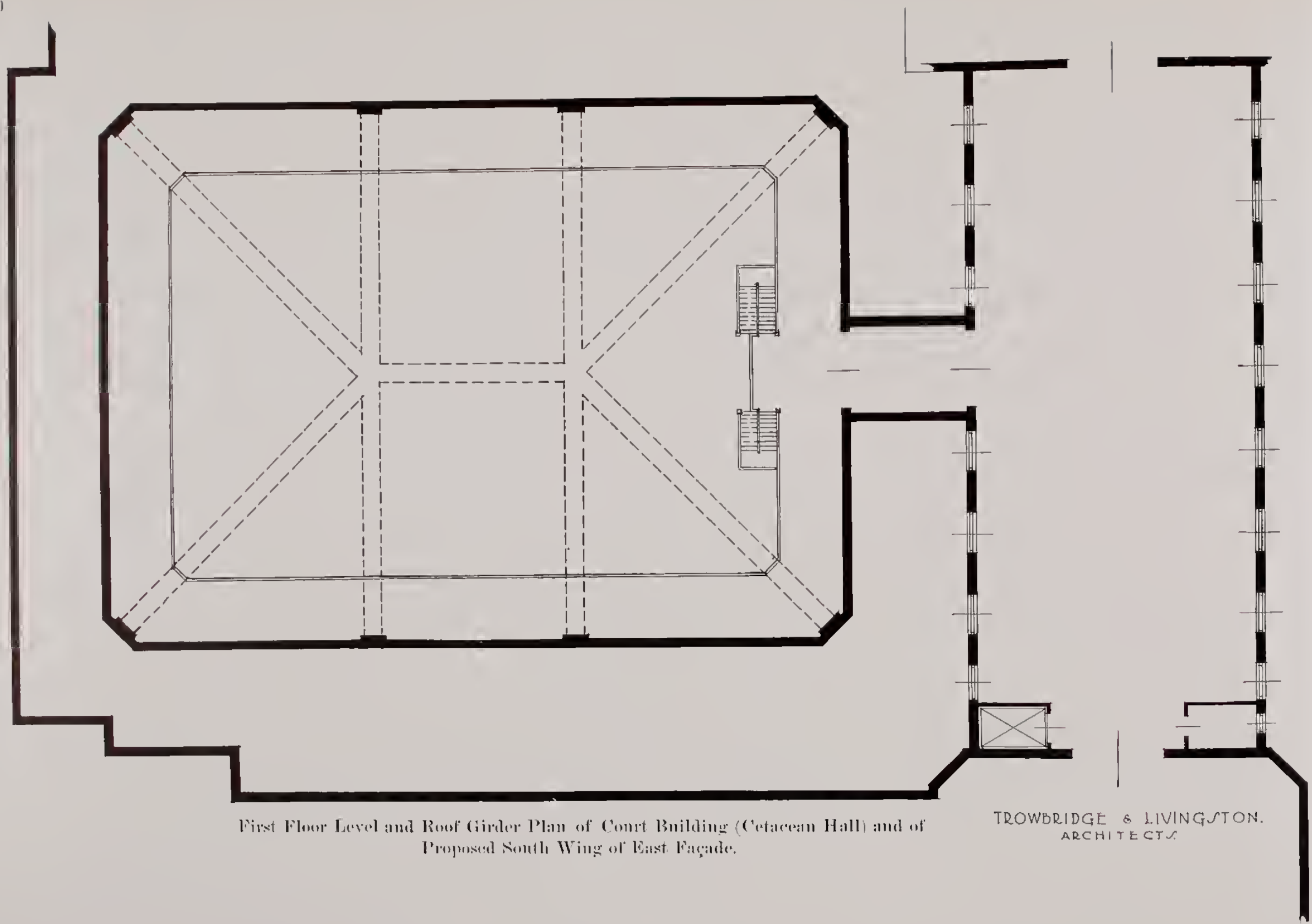
ARRANGEMENT OF EXHIBITIONS UNTIL ADJOINING SECTIONS

ARE CONSTRUCTED

ALSO ELEVATION OF THE PROPOSED WEST PAVILION

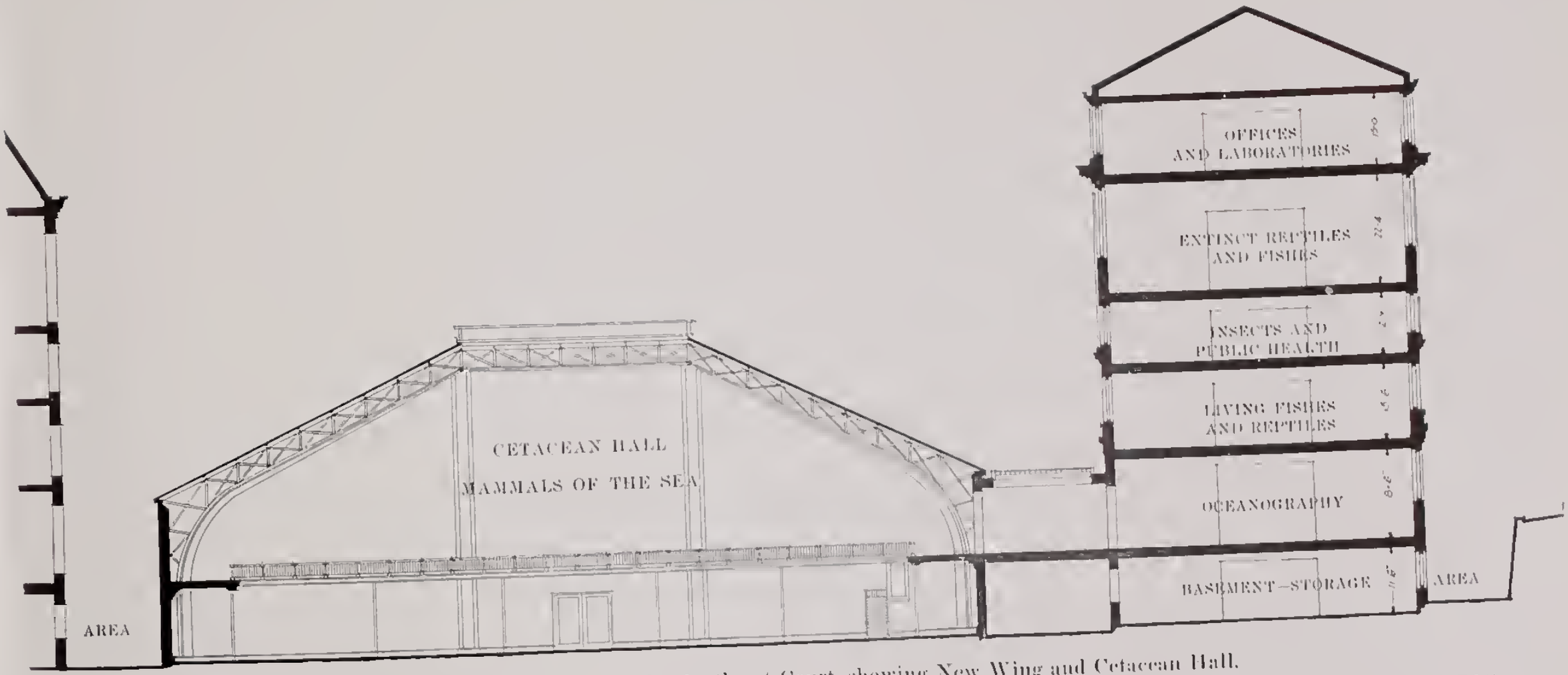


North and South Section, looking East towards proposed South Wing of East Façade



First Floor Level and Roof Girder Plan of Court Building (Cetacean Hall) and of Proposed South Wing of East Façade.

TROWBRIDGE & LIVINGSTON.
ARCHITECTS



East and West Section through the Southeast Court, showing New Wing and Cetacean Hall.

TROWBRIDGE & LIVINGSTON
ARCHITECTS

Preliminary Design for New West Pavilion facing 79th Street and Ninth Avenue

TROWBRIDGE & LIVINGSTON, Architects

The American Museum of Natural History

Plan for New Southeast Wing Facing Central Park

AND

New Southeast Court Building

THIRD EDITION OF MUSEUM PLANS

JULY 1, 1915

The American Museum of Natural History

Plan for New Southeast Wing Facing Central Park

and

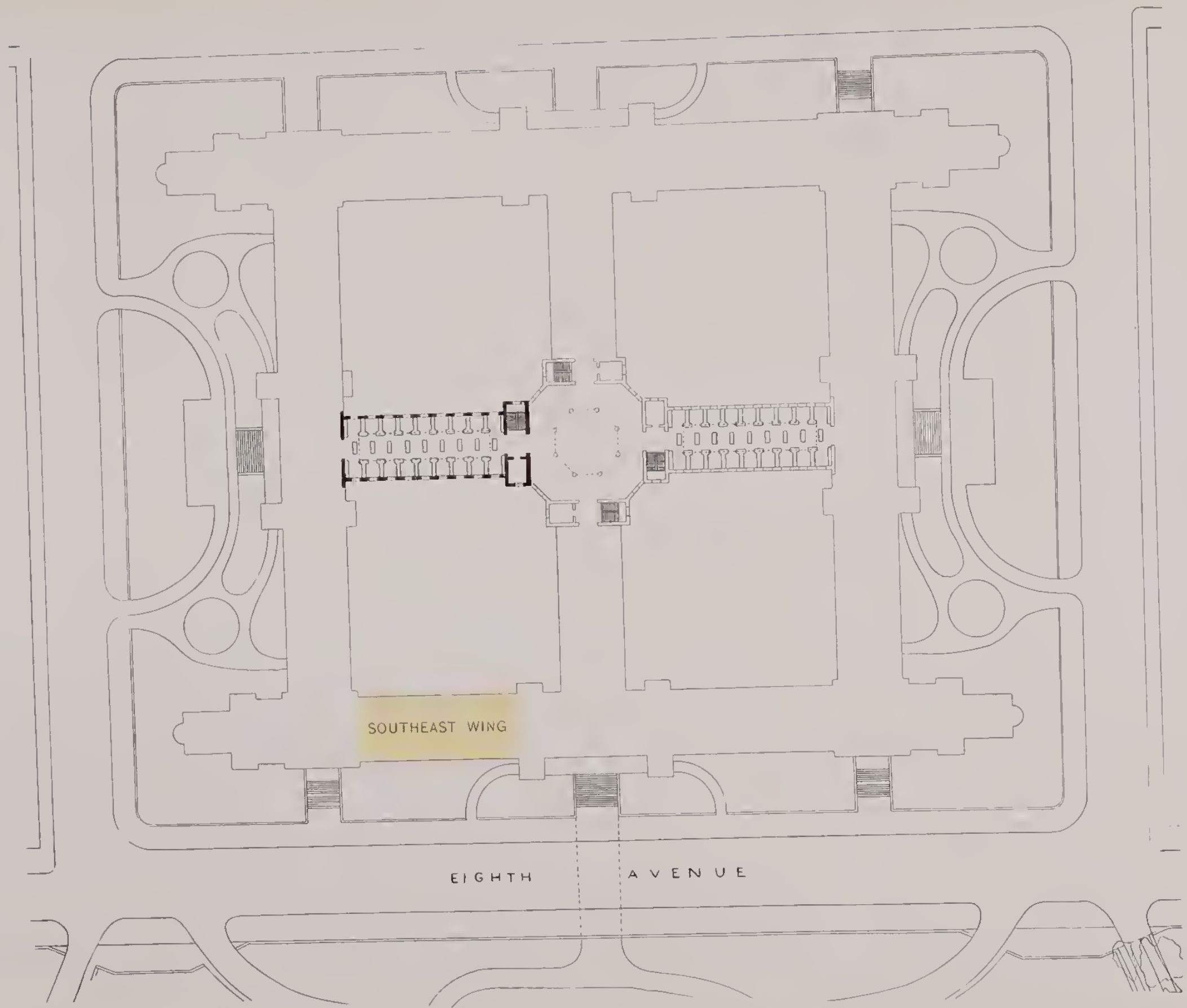
New Southeast Court Building

THIRD EDITION OF MUSEUM PLANS

JULY 1, 1915

FIRST EDITION—MAY, 1911

SECOND EDITION—MAY, 1912



FREDERIC LAW OLMSTED'S PLAN OF MANHATTAN SQUARE,
THE AMERICAN MUSEUM AND APPROACHES, 1875

DIAGRAM

Indicating proposed modification of the design of Central Park, in adaptation to requirements growing out of the proposed improvements on Manhattan Square.

September 17th 1875

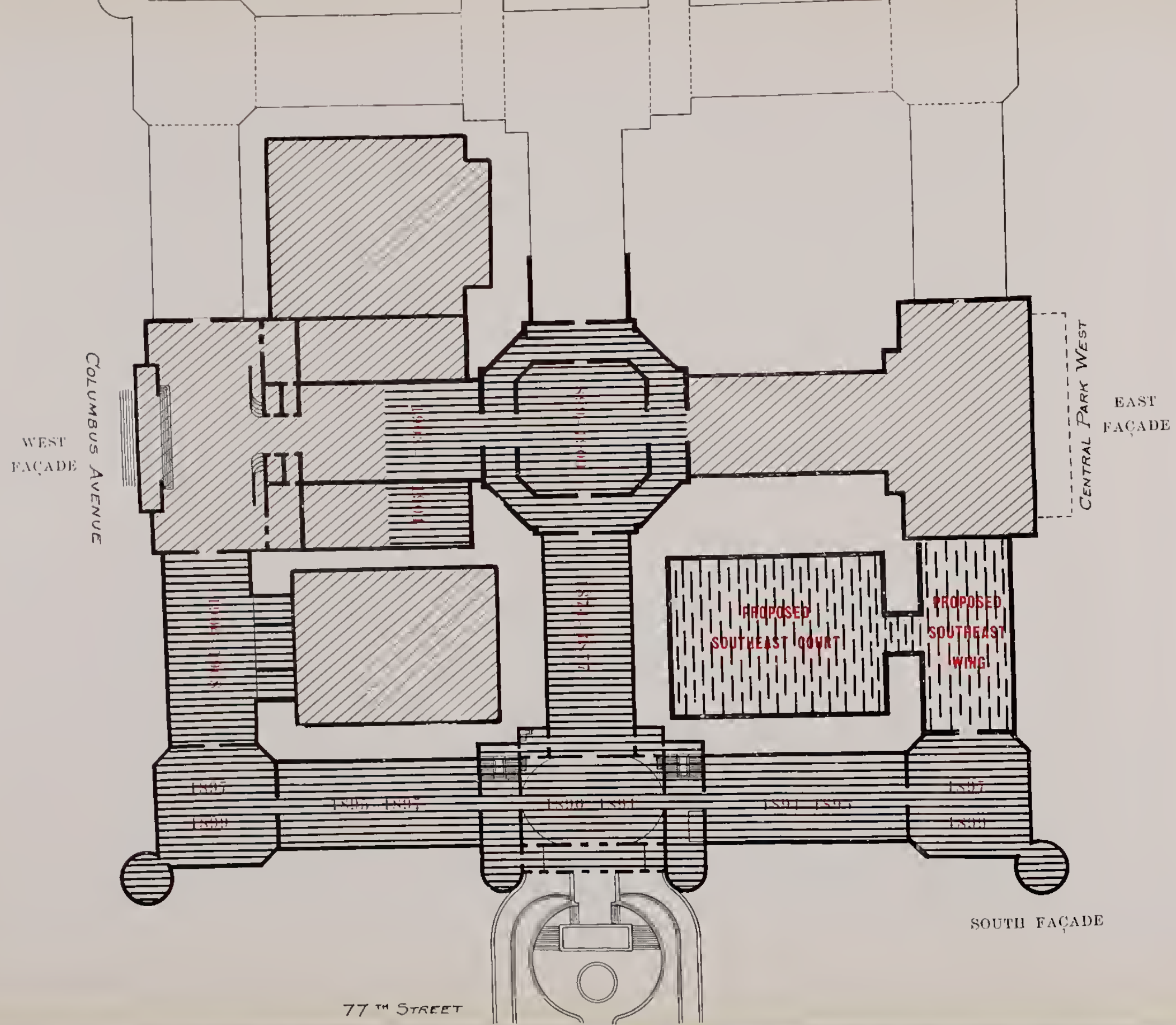
Fred. Law Olmsted
Landscape Architect.

In Board, September 17. 1875

Approved and the design provisionally adopted, except in respect to the archway, foot approaches to Manhattan Square.

Wm Irwin
Secretary D. P. P.

FACSIMILE OF INDORSEMENT OF OLMSTED'S PLAN OF MANHATTAN SQUARE
ON OPPOSITE PAGE


WEST FAÇADE
COLUMBUS AVENUE
CENTRAL PARK WEST
EAST FAÇADE
PROPOSED SOUTHEAST COURT
PROPOSED SOUTHEAST WING
SOUTH FAÇADE
77TH STREET

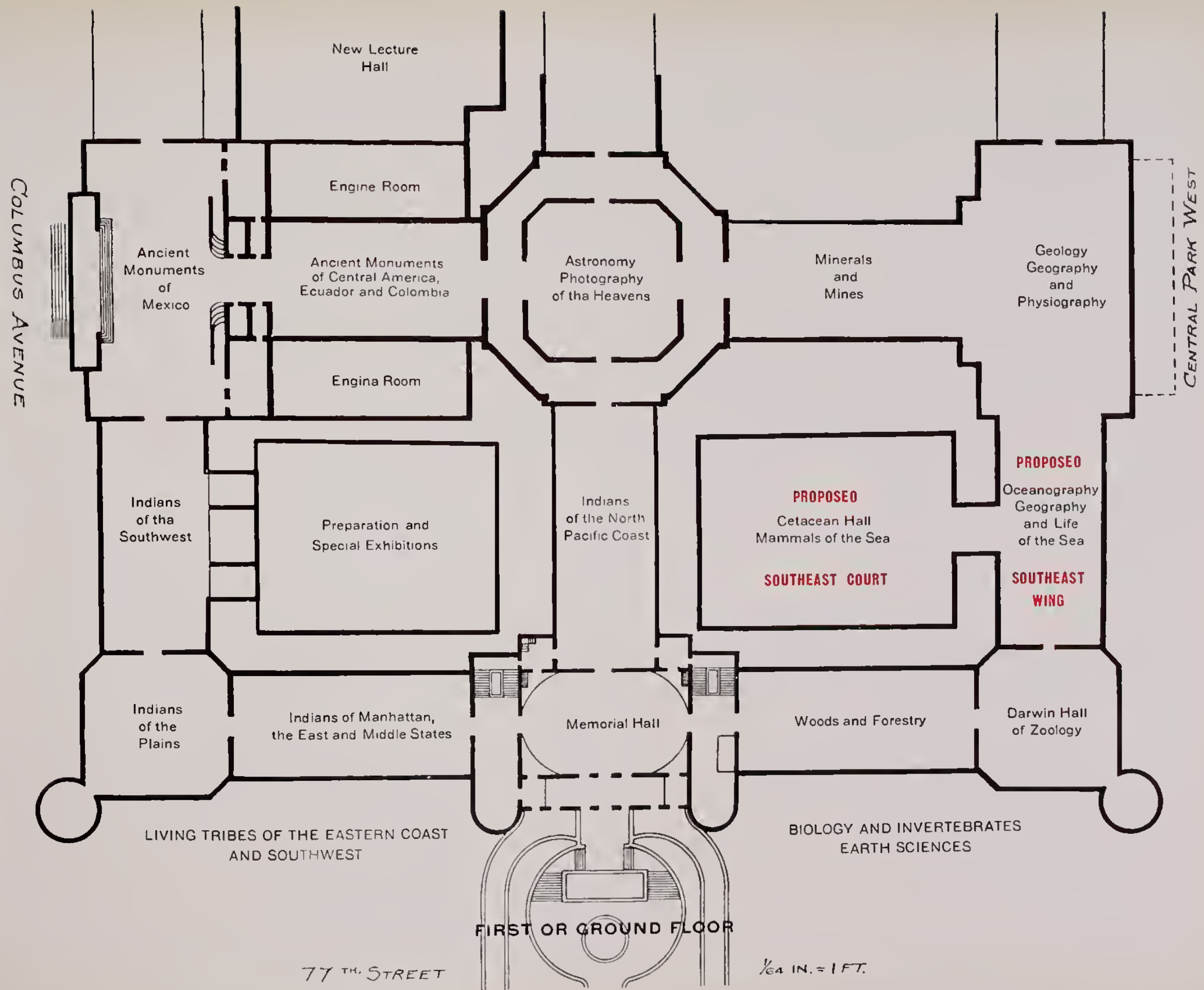
GROUND PLAN
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY
Horizontal ruling . . Completed
Vertical broken lines Awaiting construction, plans completed
Oblique ruling . . Projected (1912)
Blank Future

GROUND PLAN

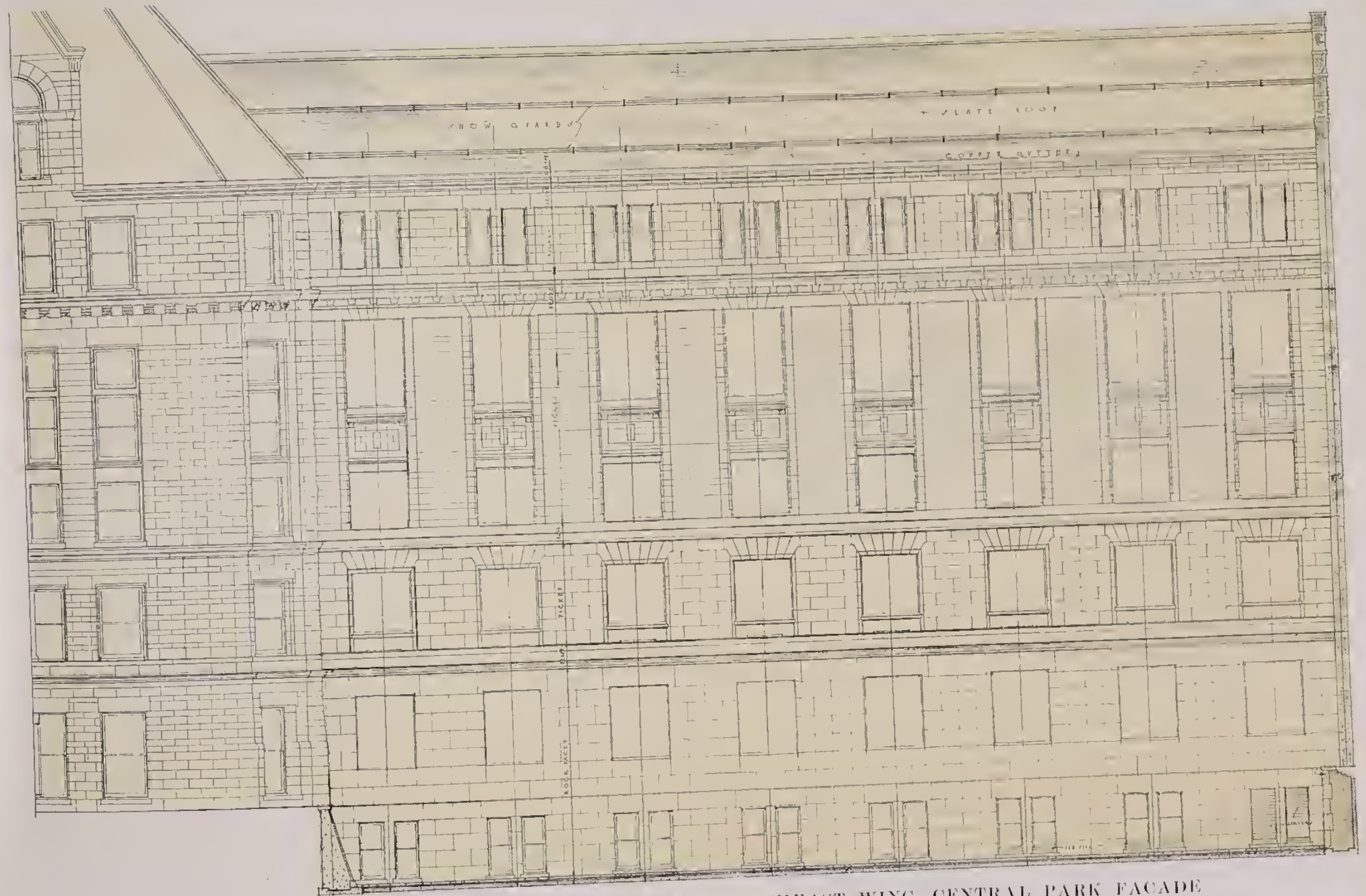
OF THE

AMERICAN MUSEUM OF NATURAL HISTORY

Horizontal ruling - -	Completed
Vertical broken lines -	Awaiting construction, plans completed
Oblique ruling - - -	Projected (1912)
Blank - - - - -	Future

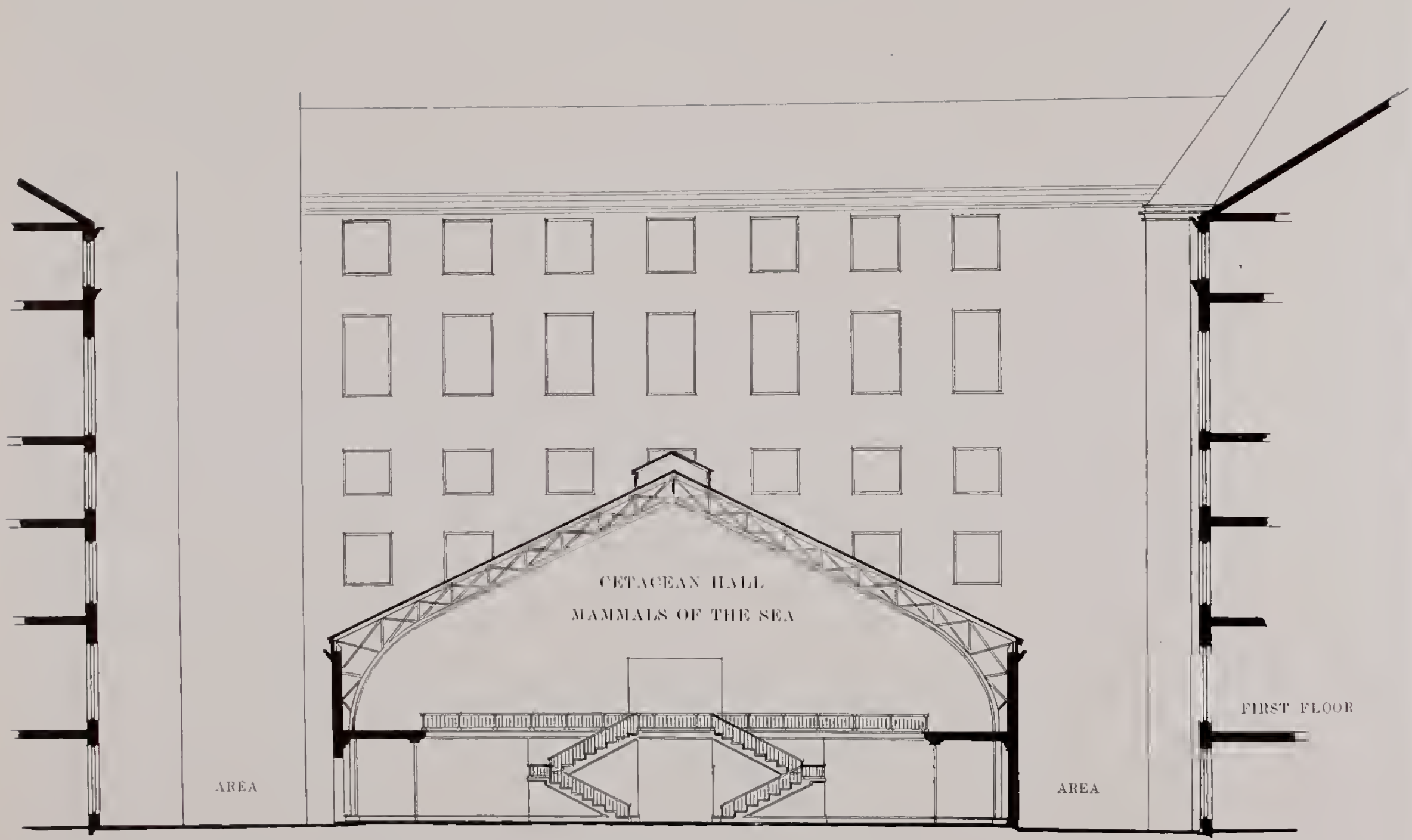


ARRANGEMENT OF THE COLLECTIONS AND EXHIBITS ON THE FIRST FLOOR
AS PRESENTED BY PRESIDENT OSBORN IN 1911



ELEVATION OF NEW SOUTHEAST WING, CENTRAL PARK FAÇADE

TROWBRIDGE & LIVINGSTON, Architects

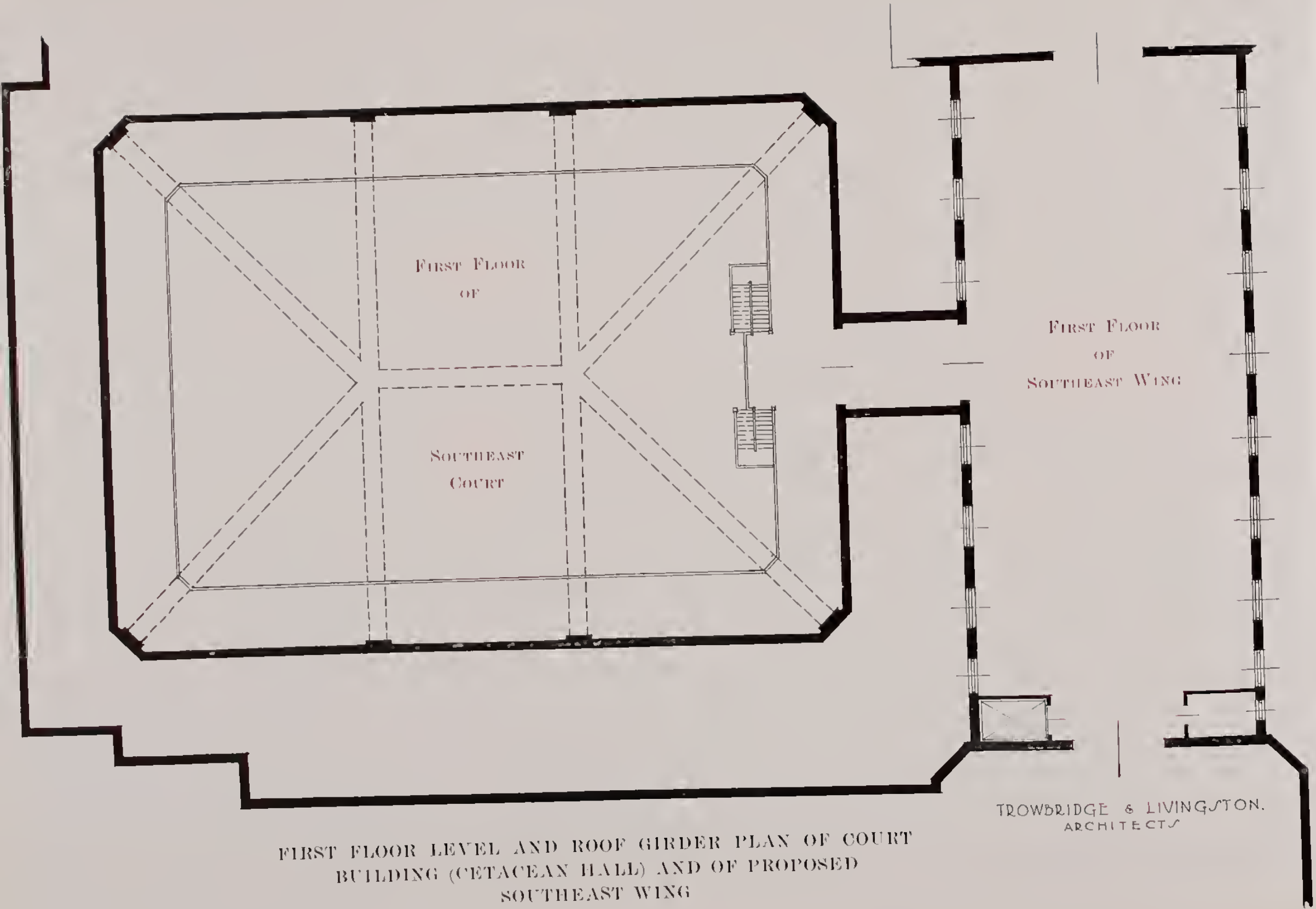


NORTH AND SOUTH SECTION, THROUGH SOUTHEAST COURT, LOOKING EAST TOWARDS PROPOSED SOUTHEAST WING

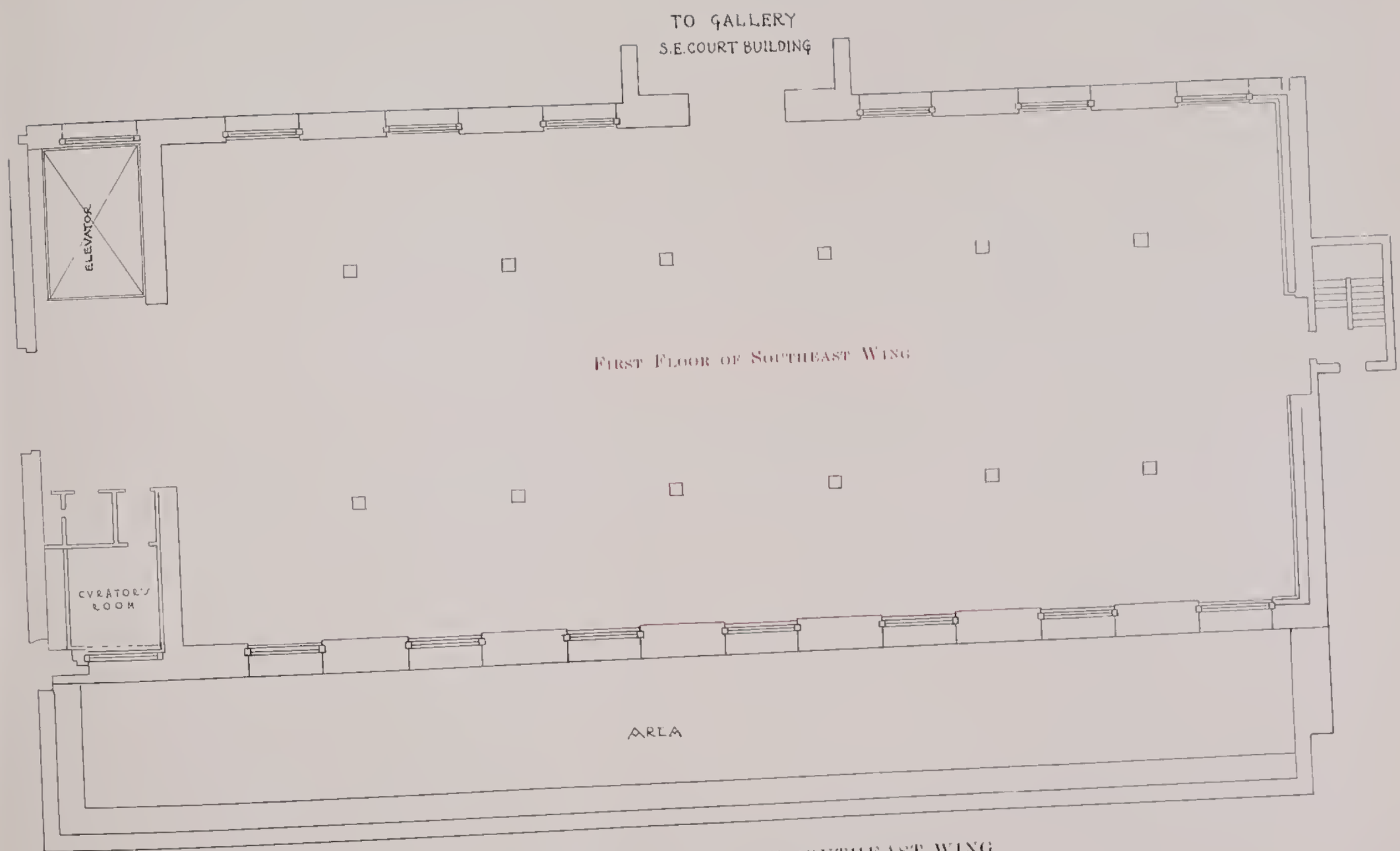
TROWBRIDGE & LIVINGSTON, Architects

EAST AND WEST SECTION, THROUGH NEW SOUTHEAST WING
AND SOUTHEAST COURT BUILDING

TROWBRIDGE & LIVINGSTON
ARCHITECTS



FIRST FLOOR LEVEL AND ROOF GIRDER PLAN OF COURT BUILDING (CETACEAN HALL) AND OF PROPOSED SOUTHEAST WING



FIRST FLOOR PLAN OF NEW SOUTHEAST WING

TROWBRIDGE & LIVINGSTON, Architects

COBURN & WASHBURN
NEW YORK

GROWTH OF THE BUILDING
OF
THE AMERICAN MUSEUM OF NATURAL HISTORY

PROPOSED NEW EAST FACADE FACING CENTRAL PARK

PLANS FOR THE NEW SOUTHEAST WING
AND
NEW SOUTHEAST COURT BUILDING

FOURTH EDITION OF MUSEUM PLANS

DECEMBER 1, 1916

GROWTH OF THE BUILDING
OF
THE AMERICAN MUSEUM OF NATURAL HISTORY

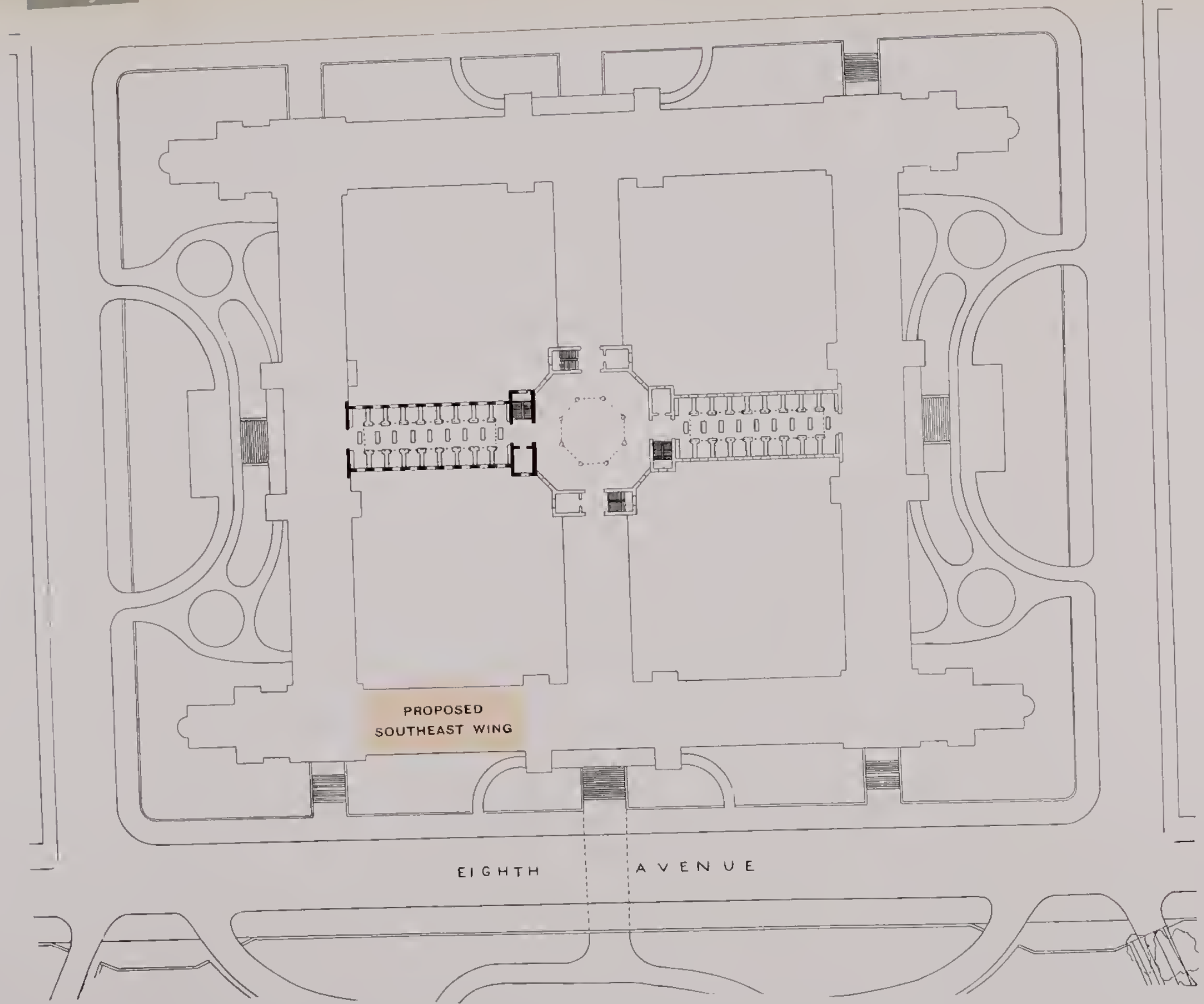
PROPOSED NEW EAST FAÇADE FACING CENTRAL PARK

PLANS FOR THE NEW SOUTHEAST WING
AND
NEW SOUTHEAST COURT BUILDING

FOURTH EDITION OF MUSEUM PLANS

DECEMBER 1, 1916

FIRST EDITION—MAY, 1911
SECOND EDITION—MAY, 1912
THIRD EDITION—JULY, 1915



FREDERIC LAW OLMSTED'S PLAN OF MANHATTAN SQUARE,
THE AMERICAN MUSEUM AND APPROACHES, 1875

DIAGRAM

Indicating proposed modification of the design of Central Park, in adaptation to requirements growing out of the proposed improvements on Manhattan Square.

September 17th 1875

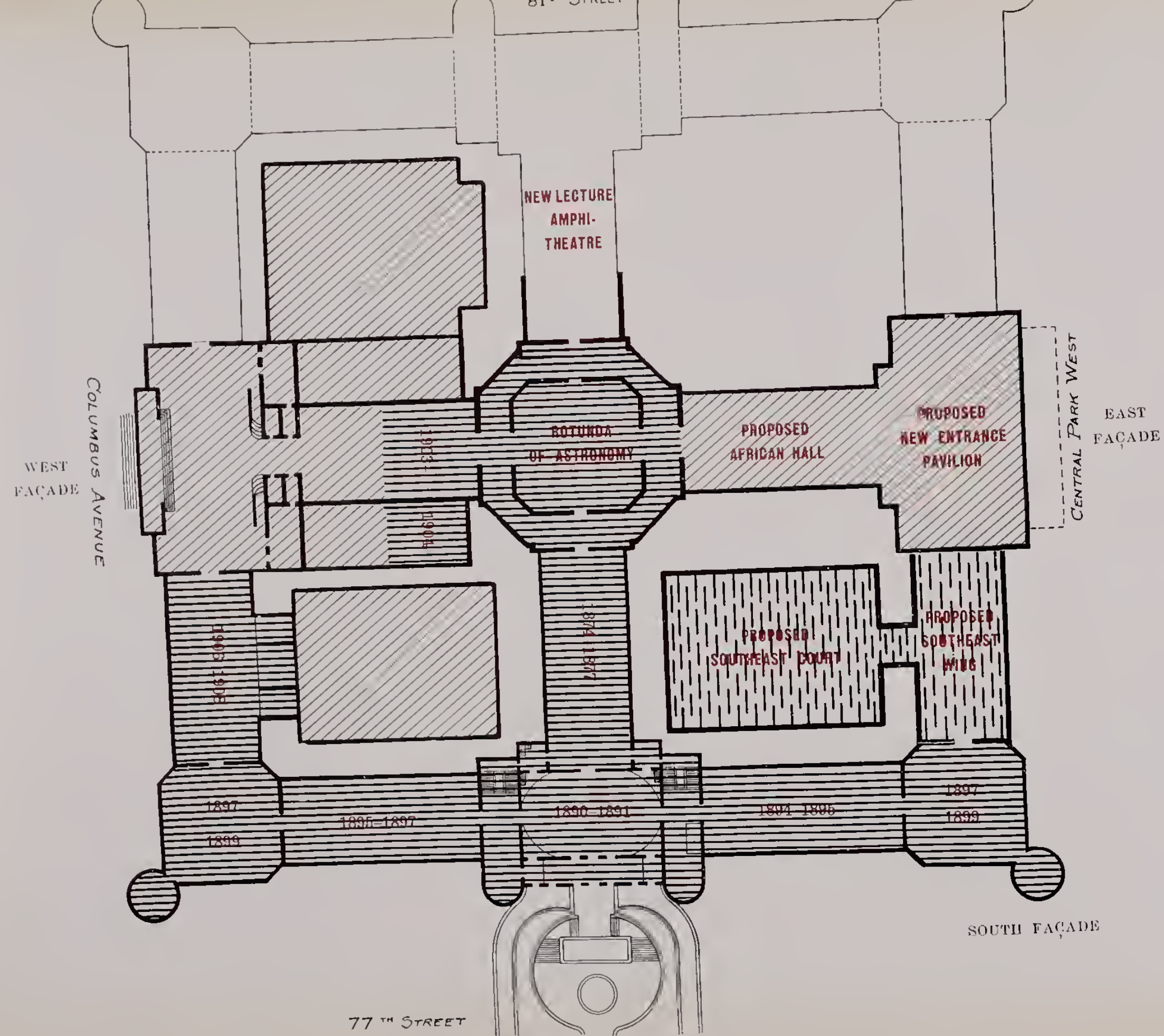
Fred. Law Olmsted
Landscape Architect.

In Board, September 17. 1875

Approved and the design provisionally adopted, except in respect to the archway, foot approaches to Manhattan Square.

Wm Irwin
Secretary D. P. P.

FACSIMILE OF INDORSEMENT OF OLMSTED'S PLAN OF MANHATTAN SQUARE
ON OPPOSITE PAGE


NEW LECTURE AMPHI-THEATRE
ROTUNDA OF ASTRONOMY
PROPOSED AFRICAN HALL
PROPOSED NEW ENTRANCE PAVILION
PROPOSED SOUTHEAST COURT
PROPOSED SOUTHEAST WING
1903-1904
1904
1904-1907
1905-1908
1897
1899
1895-1897
1890-1891
1894-1895
1897
1899
WEST FAÇADE
COLUMBUS AVENUE
EAST FAÇADE
CENTRAL PARK WEST
SOUTH FAÇADE
77TH STREET

GROUND PLAN

OF THE

AMERICAN MUSEUM OF NATURAL HISTORY

Horizontal ruling - -	Completed
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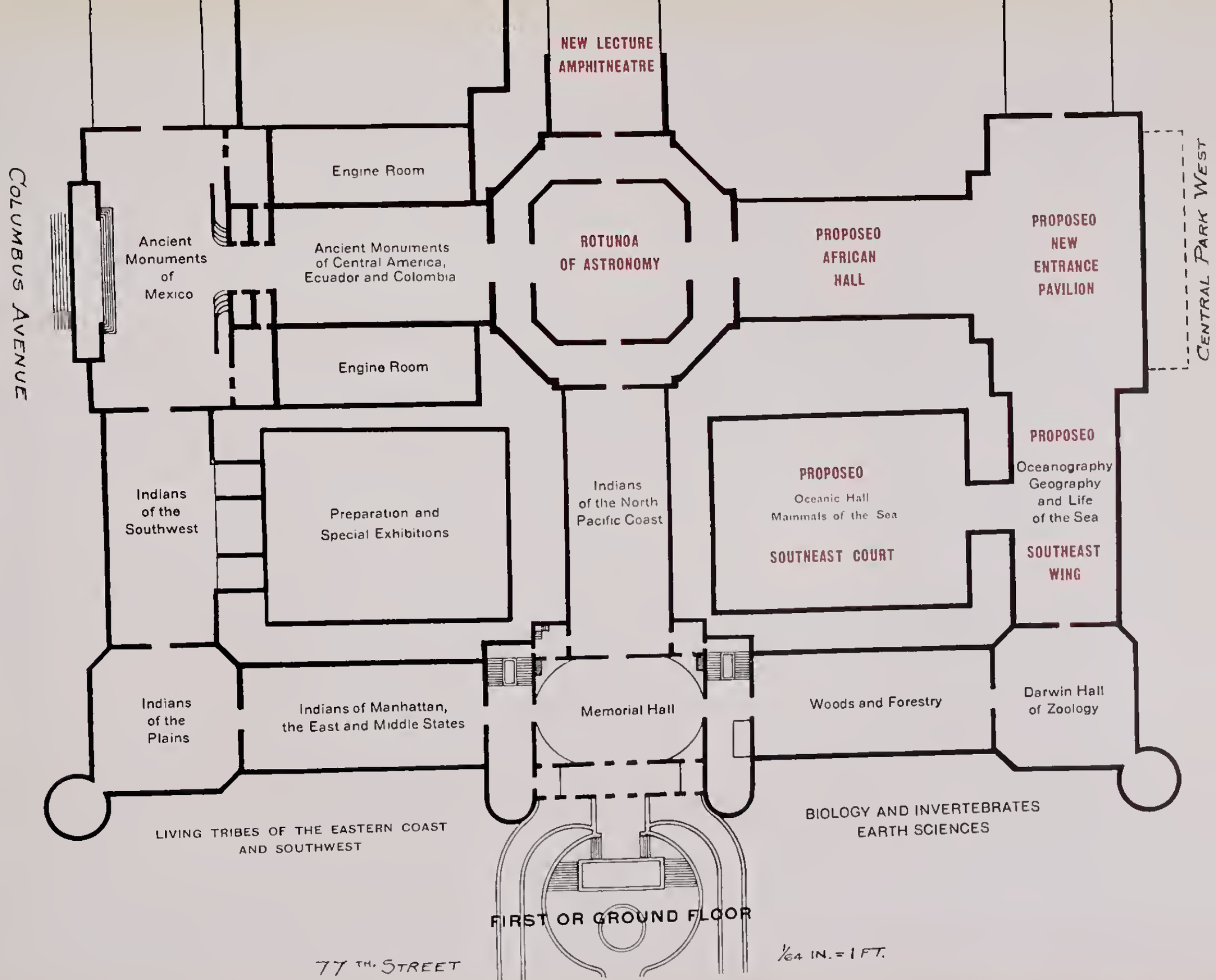
Blank - - - -	Future

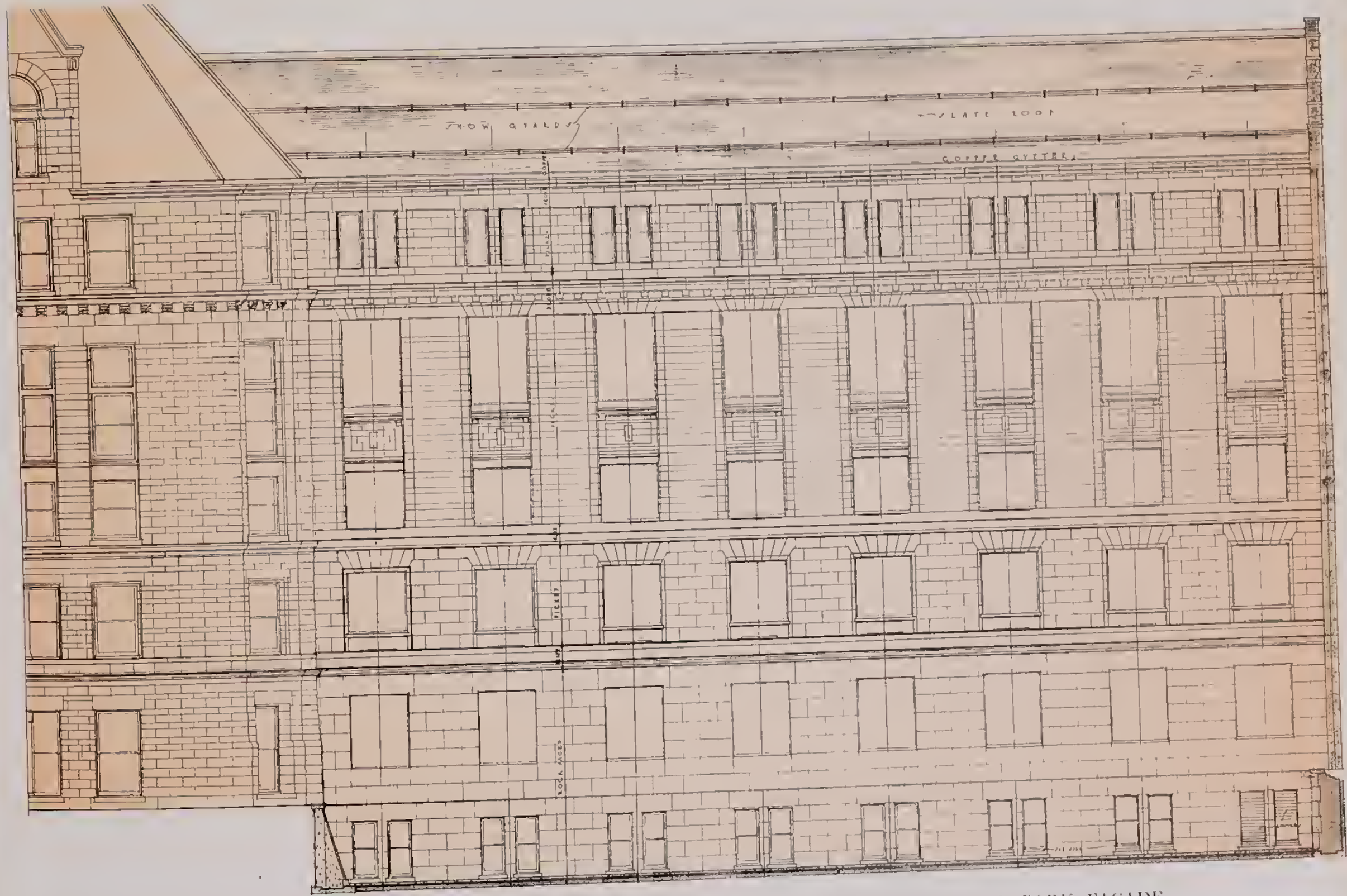


ARRANGEMENT OF THE COLLECTIONS AND EXHIBITS ON THE FIRST FLOOR
AS PRESENTED BY PRESIDENT OSBORN IN 1916

PROPOSED NEW EAST FAÇADE FACING CENTRAL PARK

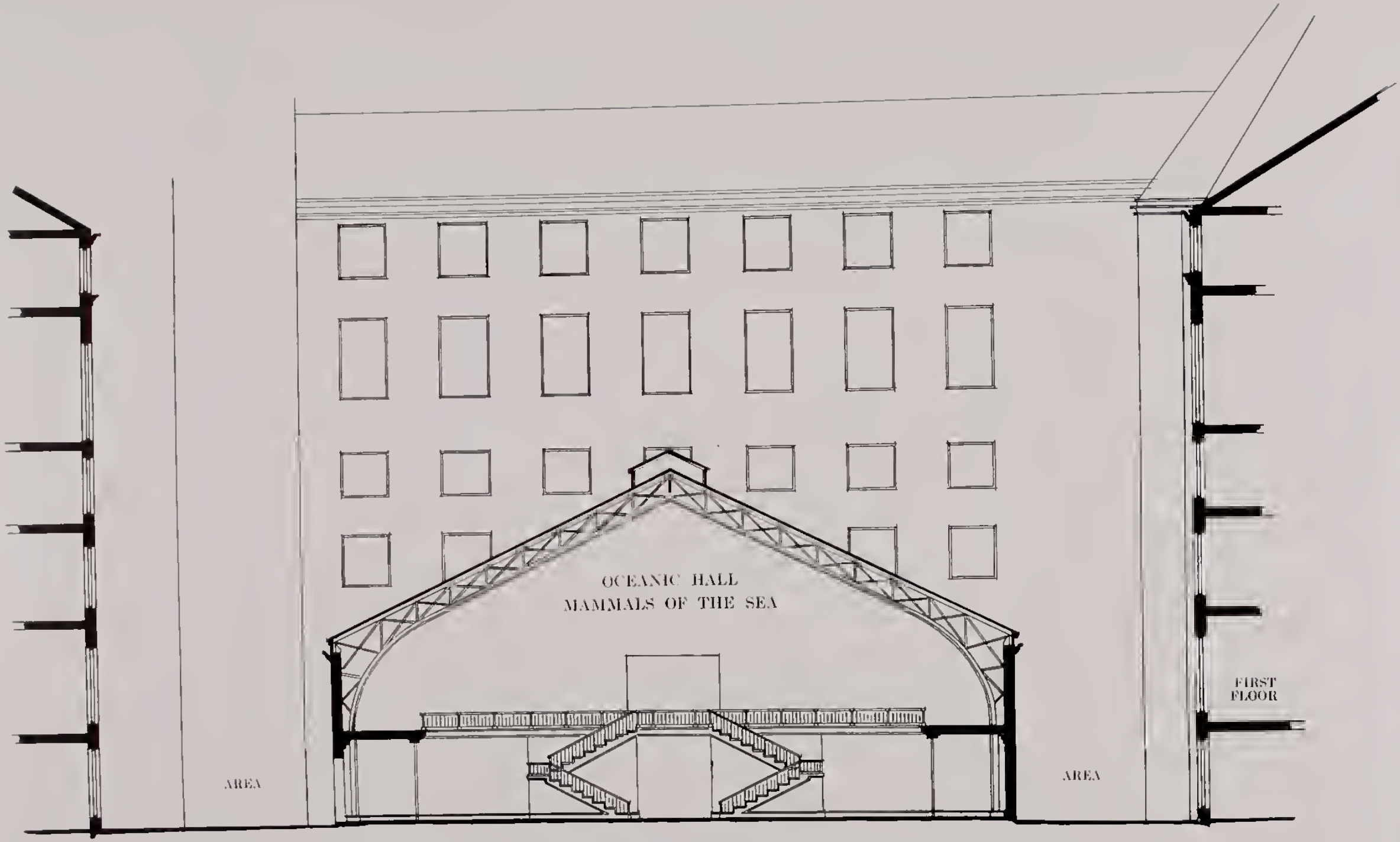
PRELIMINARY DESIGN

Trowbridge & Livingston, *Architects*



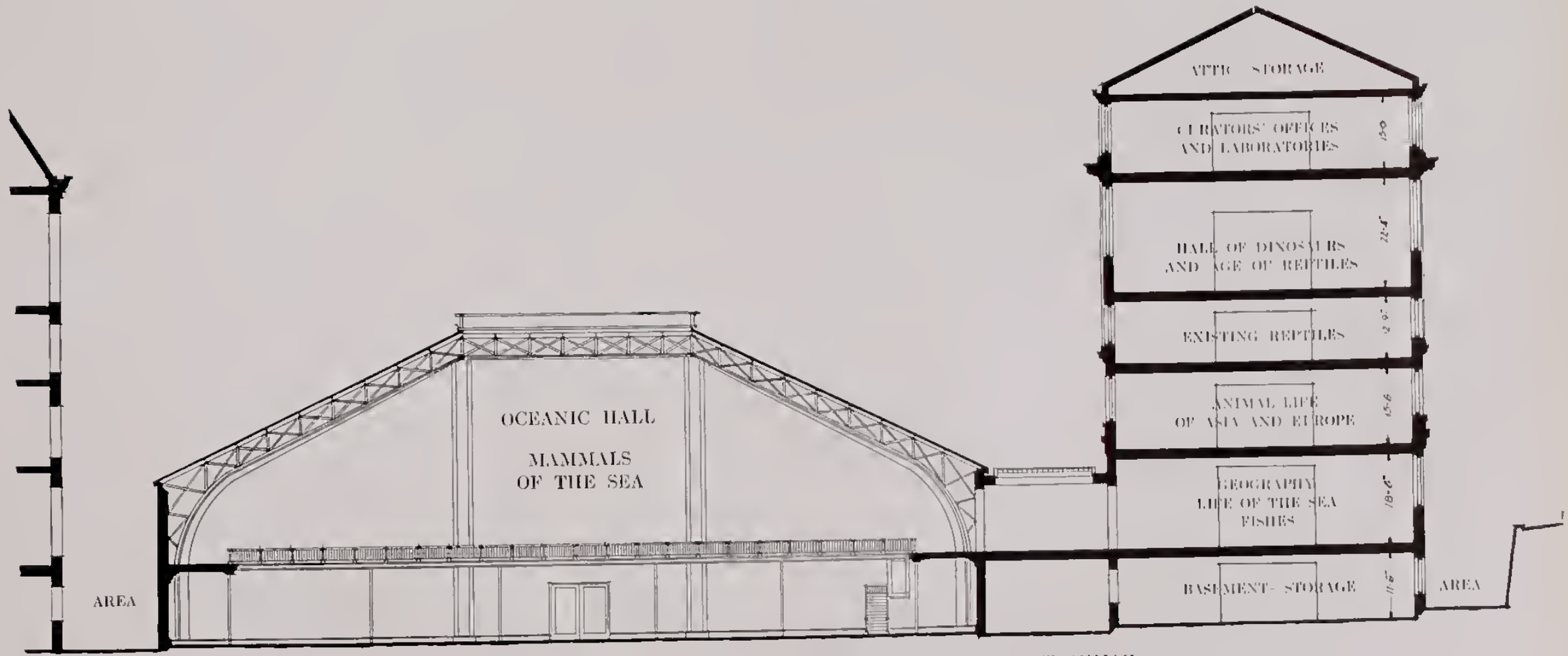
ELEVATION OF NEW SOUTHEAST WING, CENTRAL PARK FAÇADE

TROWBRIDGE & LIVINGSTON, *Architects*



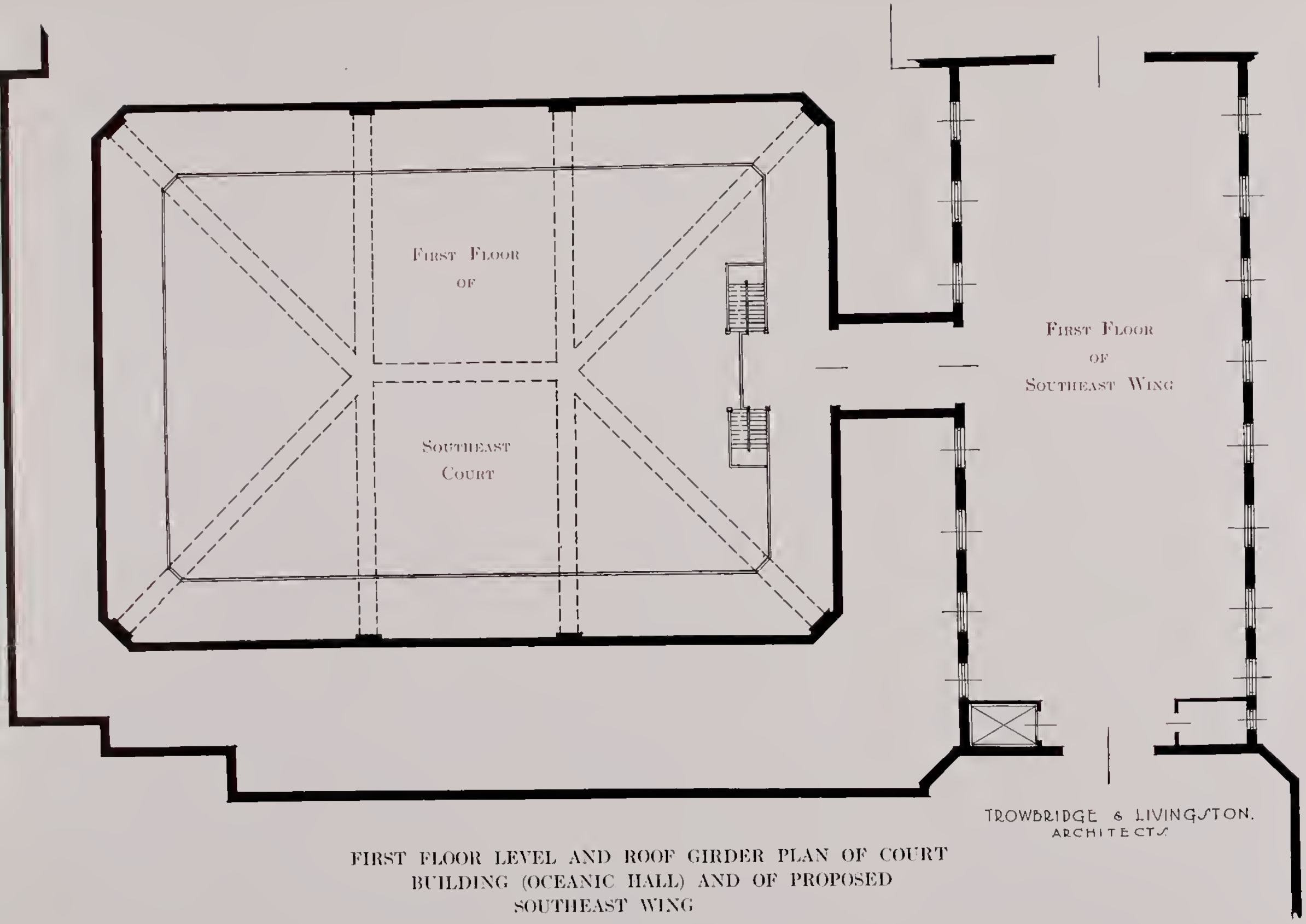
NORTH AND SOUTH SECTION, THROUGH SOUTHEAST COURT, LOOKING EAST TOWARDS PROPOSED SOUTHEAST WING

TROWBRIDGE & LIVINGSTON, *Architects*



EAST AND WEST SECTION, THROUGH NEW SOUTHEAST WING
AND SOUTHEAST COURT BUILDING

TROWBRIDGE & LIVINGSTON
ARCHITECTS



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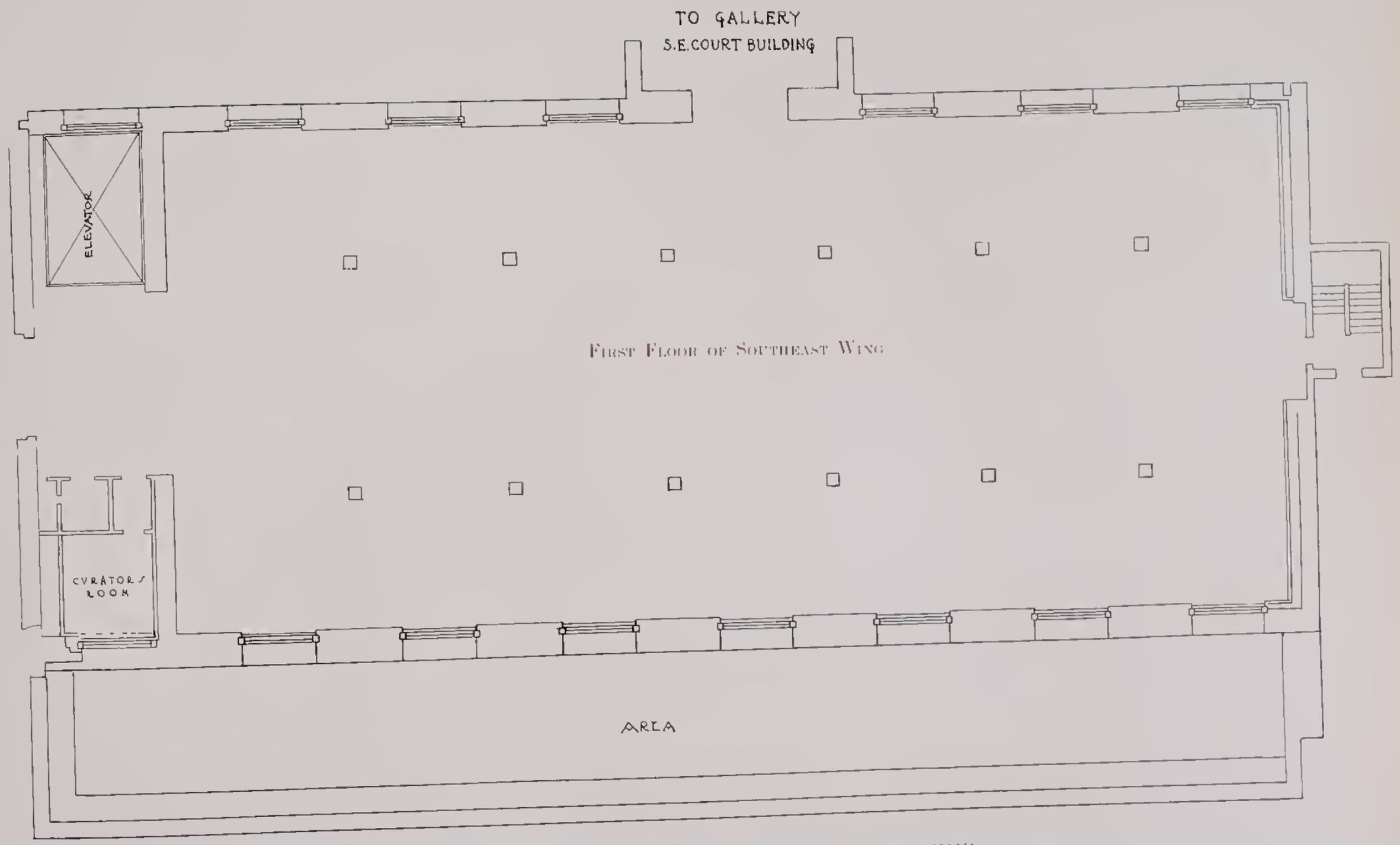

FIRST FLOOR PLAN OF NEW SOUTHEAST WING

TROWBRIDGE & LIVINGSTON, *Architects*

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