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PLANS,

DESCRIPTIONS AND ESTIMATES

OF THE

# BOSTON HOSPITAL FOR THE INSANE,

AT

# WINTHROP.

1867.



### BOSTON:

ALFRED MUDGE & SON, CITY PRINTERS, 34 SCHOOL STREET. 1867.





BOSTON HOSPITAL FOR THE INSANE

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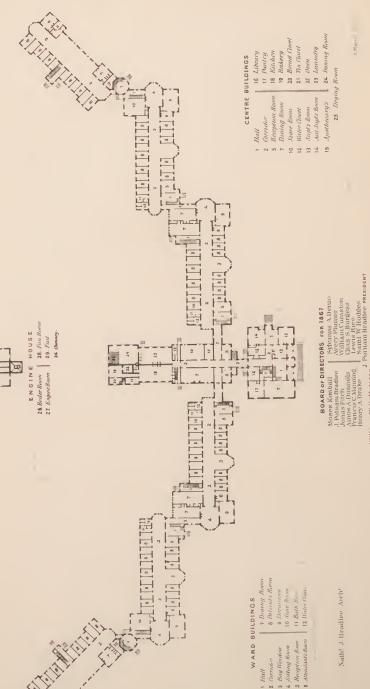
Nath! J. Bradlee Arch\*

A.Mensel Lith.

Villiam Willelt Clerk
superintendent of hospital



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SUPERINTENDENT OF HOSPITAL CHORPITAL William Willett CLERK

# City Document. — No. 94.

# CITY OF BOSTON.



# PLANS,

# DESCRIPTIONS AND ESTIMATES

OF THE

# BOSTON HOSPITAL FOR THE INSANE,

AT

# WINTHROP.

1867.



### CITY OF BOSTON.

Office of the Board of Directors } for Public Institutions, City Hall, Boston, October 4, 1867.

To the Honorable the City Council of Boston:

I have the honor to submit for your approval the Plans, Descriptions and Estimates of the Boston Hospital for the Insane, at Winthrop, Mass.

They have been very carefully prepared, and unanimously adopted by the Board.

Very Respectfully,

J. P. BRADLEE,

President of the Board of Directors,

for Public Institutions.

Boston Lunatic Hospital,
Boston, Mass., Sept. 28, 1867.

To the Board of Directors for Public Institutions.

Gentlemen: Three months ago, the Committee on the proposed new "Hospital for the Insane" referred the "Plans" to the Architect (N. J. Bradlee, Esq.,) and myself, with the request that we would give them a thorough revision. That has been done, and the result is before you.

While not doubting that Experts, of larger experience, may discover defects and suggest improvements, we are at a loss to see how, without great expense, the plans can easily be materially improved.

Such a Hospital structure, containing no provision that can well be dispensed with, and requiring not a dollar for mere ornamentation, will be no discredit to the humanity, intelligence and good taste of Boston.

These plans have my hearty and unqualified approval.

Very respectfully,

CLEMENT A. WALKER,
Superintendent.

No. 18 Pemberton Square, Boston, Sept. 20, 1867.

To the Board of Directors of Public Institutions of the City of Boston:

Gentlemen: I herewith submit my Plans for the proposed Hospital at Winthrop, in which are incorporated all the improvements of the modern Hospitals, besides many new ones which have been suggested by Dr. Walker, and the several superintendents who have examined the same. I also submit a full description of the proposed building, together with the estimates, which were made with the greatest care; and I believe that they can be relied upon in every particular. These are based upon the present market prices, and all the items are given in detail. As will be seen, the total cost amounts to four hundred and ninety-eight thousand five hundred and three dollars, which includes twenty-two thousand six hundred dollars, added to cover any contingencies or extras.

Respectfully submitted,

NATHANIEL J. BRADLEE.

### DESCRIPTION.

#### LOCATION.

The land purchased for the new Hospital is situated in the town of Winthrop, about five miles from the City Hall. It consists of one hundred and twenty acres of upland, and sixty of marsh, and is one of the most delightful locations that could have been selected for the purpose. The site for the proposed building will be at an elevation of eighty feet above tide marsh level, overlooking Massachusetts Bay, the City of Boston, and surrounding country, with the land gradually sloping in every direction, insuring good drainage.

#### CONSTRUCTION OF THE BUILDING.

The exterior walls will be of brick, with granite trimmings, surmounted by a brick cornice and French roof.

The grouping of the several wings, falling back as they do from the centre and from each other, with their several projections and bays, will give a very pleasing effect to the whole.

#### BASEMENT.

This story, which will be from four to six feet above the level of the ground, will contain five hundred and four hot air chambers, each being two feet by five feet, for the pipes to heat the building. The basement of the rear centre building will contain store rooms and vegetable cellars.

#### PRINCIPAL STORY.

The general plan of the building consists of a centre building, three stories high, 60 feet by 92 feet; a building in the rear of the centre, two stories high, 49 feet by 156 feet, and two wings

of three sections each, two being three stories high. The first section on each side is 56 feet by 154 feet; the second section, 56 feet by 145 feet 9 inches; the third section, two stories high, 57 feet by 121 feet 9 inches; one being at each side of, and at an angle of 45 degrees to the second section. This gives eight distinct wards for each sex, the minimum required (by unanimous vote of the Association of Medical Superintendents of American Institutions for the Insane) in a Hospital for two hundred patients; this designed for three hundred.

The principal story of the centre building contains superintendent's room, 20 feet square; private room, 17 feet by 20 feet; assistant superintendent's room, 17 feet by 20 feet; apothecary's room, 12 feet by 17 feet; library, 12 feet by 17 feet; dining room, 20 feet by 40 feet; pantry, 17 feet by 20 feet; and six large closets.

The rear centre building will contain, — reception rooms, 12 feet by 18 feet; attendants' dining room, 18 feet by 40 feet; store room, 18 feet by 26 feet; kitchen, 20 feet by 42 feet; laundry, 20 feet by 40 feet; ironing room, 22 feet square; pantry, 6 feet by 15 feet; bakery, 14 feet square; bread closet, 7 feet by 23 feet; tin closet, 6 feet by 15 feet; oven, 10 feet by 12 feet; drying room, 10 feet by 18 feet.

The first section on each side of the centre will contain 15 single rooms, 8 feet 6 inches by 14 feet; sitting room, 22 feet by 30 feet; bay window, 18 feet by 20 feet; reception room, 13 feet by 21 feet; attendants' room, 13 feet by 21 feet; bath room, 9 feet by 14 feet; store room, 9 feet by 14 feet; dormitory, 17 feet by 27 feet; dining room, 16 feet by 34 feet.

The second section on each side will contain 16 single rooms; general store room, 20 by 23 feet; the other rooms are the same as described for first section.

The third section will contain 12 single rooms, 8 feet 6 inches by 14 feet; open corridor, 28 feet by 62 feet; dining room, 17 by 20 feet; store room, 10 feet by 17 feet; attendants' room, 14 feet by 17 feet; bath room, 10 feet by 17 feet.

#### SECOND STORY.

The second and third stories of the first and second sections are divided the same as the first story of said buildings, and the second story of the third section is also like the first story of the same. The attics of the first and second sections will furnish pleasant and desirable infirmaries. The attics of the third section will afford ample and convenient room for the isolation of small-pox and other contagious diseases.

The second and third stories of the centre building are arranged to accommodate the Superintendent and his family, with his assistants.

The second story of the rear centre building contains a chapel, 45 feet by 75 feet; domestics' room, 14 feet by 20 feet; billiard room, 18 feet by 45 feet; store room, 12 feet by 20 feet; The main centre building and the first section on each side, also rear centre buildings, are connected by corridors 10 feet wide.

#### THE ENGINE HOUSE.

Is located 103 feet distant from the rear centre building, and is 47 feet by 74 feet, containing a boiler room, 13 feet by 57 feet; engine room, 14 feet by 24 feet; fan-blower room, 32 feet by 14 feet; fuel rooms, 14 feet by 23 feet, and 14 feet by 34 feet; connected with this house is the large chimney, 15 feet square at base, by 180 feet in height.

#### CONSTRUCTION.

The outside cellar walls are to be two feet thick of stone, laid in cement mortar; the walls above are of brick, 20 inches thick, laid hollow; the outer walls being 12 inches, an air space of 4 inches, and the inner wall, 4 inches thick. The inte-

rior walls on the side corridors, will be also 20 inches thick, so as to leave room for the ventilating and heating flues to pass through them. To render the building as nearly fire-proof as possible, without going to the expense of brick arches and iron beams or girders, all the plastering will be done directly upon the brick walls without furring; the floors will be plastered between the floor boards, and the base or plinth around the rooms and corridors will be of face brick, painted; all the inside partitions will be also of brick.

To give some idea of the size of the building, it may be stated that it will require 1,775 perches of stone for the foundations; 7,750,250 bricks will be used in the walls; 62,829 yards of plastering; 3,224 feet of gutters, with 2,022 feet of conductors; 18,250 feet of gas pipe; 1,289,488 feet of lumber; 1,238 windows; 59,424 lights of glass, and 989 doors; 504 being required for the pipe chambers in the basement.

#### HEATING AND VENTILATION.

The building will be arranged so as to hereafter decide upon the best method of heating, whether by hot water, high or low pressure steam, all of which systems have their strenuous advoeates. The ventilation of all the water-closets will be effected by the downward draft to the heated chimney; the ventilation of the wards will be likewise arranged for the downward draft; there will also be provided, in the boiler house, a fan blower, upon the Dr. Niehols plan, to be used as occasion may require.

The high chimney will be so constructed as to form a large ventilating flue, entirely around the boiler flue, to assure a steady draft. The underground air flues will be 8 feet in diameter, diminishing in size as they approach the third section, with small branches to each of the several hot air chambers in the basement story.

# ESTIMATES ON THE PROPOSED PLAN.

# MAIN CENTRE BUILDING.

Excavations.       \$300 00         Rough stone work       1,600 00         Hammered stone.       13,125 00         Brick work.       10,090 00         Concrete.       375 00         Plastering.       3,495 00         Slating and tinning.       1,055 00         Stairs.       1,200 00         Base boards       500 00         Sheathing.       1,200 00         Painting and glazing.       3,800 00         Bells and tubes.       250 00         Ventilation.       250 00         Steam heating.       1,800 00         Gutters and conductors       904 00         Cooking apparatus.       500 00         Mantels and grates       1,575 00         Iron work.       419 00         Timber and floor boards       5,025 00         Window frames and sashes       2,013 00         Doors and frames.       1,630 00         Fitting up closets       790 00         Casing pipes, lintels and patterns       300 00         Plumbing       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         \$59,781 00				
Hammered stone.       13,125 00         Brick work.       10,090 00         Concrete.       375 00         Plastering.       3,495 00         Slating and tinning       1,055 00         Stairs.       1,200 00         Base boards.       500 00         Sheathing.       1,200 00         Painting and glazing.       3,800 00         Bells and tubes.       250 00         Ventilation.       250 00         Steam heating.       1,800 00         Gutters and conductors       904 00         Cooking apparatus.       500 00         Mantels and grates       1,575 00         Iron work.       419 00         Timber and floor boards       5,025 00         Window frames and sashes.       2,013 00         Window frames and sashes.       2,013 00         Fitting up closets.       790 00         Casing pipes, lintels and patterns       300 00         Plumbing.       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         \$59,781 00       \$59,781 00         "Carpenter work.       19,293 00         "Contingencies and extras       5,000 00   <	Excavations		\$300	00
Hammered stone.       13,125 00         Brick work.       10,090 00         Concrete.       375 00         Plastering.       3,495 00         Slating and tinning       1,055 00         Stairs.       1,200 00         Base boards.       500 00         Sheathing.       1,200 00         Painting and glazing.       3,800 00         Bells and tubes.       250 00         Ventilation.       250 00         Steam heating.       1,800 00         Gutters and conductors       904 00         Cooking apparatus.       500 00         Mantels and grates       1,575 00         Iron work.       419 00         Timber and floor boards       5,025 00         Window frames and sashes.       2,013 00         Window frames and sashes.       2,013 00         Fitting up closets.       790 00         Casing pipes, lintels and patterns       300 00         Plumbing.       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         \$59,781 00       \$59,781 00         "Carpenter work.       19,293 00         "Contingencies and extras       5,000 00   <	Rough stone work		1,600	00
Concrete.       375 00         Plastering.       3,495 00         Slating and tinning.       1,055 00         Stairs.       1,200 00         Base boards.       500 00         Sheathing.       1,200 00         Painting and glazing.       3,800 00         Bells and tubes.       250 00         Ventilation.       250 00         Steam heating.       1,800 00         Gutters and conductors       904 00         Cooking apparatus.       500 00         Mantels and grates       1,575 00         Iron work.       419 00         Timber and floor boards       5,025 00         Window frames and sashes.       2,013 00         Doors and frames.       1,630 00         Fitting up closets.       790 00         Casing pipes, lintels and patterns.       300 00         Plumbing.       2,000 00         Gas pipes.       585 00         Contingencies and extras.       5,000 00         \$59,781 00         " Carpenter work.       19,293 00         " Contingencies and extras.       5,000 00			13,125	00
Plastering.       3,495 00         Stairing and tinning       1,055 00         Stairs.       1,200 00         Base boards       500 00         Sheathing.       1,200 00         Painting and glazing.       3,800 00         Bells and tubes.       250 00         Ventilation.       250 00         Steam heating.       1,800 00         Gutters and conductors       904 00         Cooking apparatus.       500 00         Mantels and grates       1,575 00         Iron work.       419 00         Timber and floor boards       5,025 00         Window frames and sashes.       2,013 00         Fitting up closets.       790 00         Casing pipes, lintels and patterns.       300 00         Plumbing.       2,000 00         Gas pipes       585 00         Contingencies and extras.       5,000 00         ** Carpenter work       19,293 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00	Brick work		10,090	00
Plastering       3,495 00         Slating and tinning       1,055 00         Stairs       1,200 00         Base boards       500 00         Sheathing       1,200 00         Painting and glazing       3,800 00         Bells and tubes       250 00         Ventilation       250 00         Steam heating       1,800 00         Gutters and conductors       904 00         Cooking apparatus       500 00         Mantels and grates       1,575 00         Iron work       419 00         Timber and floor boards       5,025 00         Window frames and sashes       2,013 00         Window frames and sashes       2,013 00         Fitting up closets       790 00         Casing pipes, lintels and patterns       300 00         Plumbing       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         ** Carpenter work       19,293 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00	Concrete		375	00
Stairs       1,200 00         Base boards       500 00         Sheathing       1,200 00         Painting and glazing       3,800 00         Bells and tubes       250 00         Ventilation       250 00         Steam heating       1,800 00         Gutters and conductors       904 00         Cooking apparatus       500 00         Mantels and grates       1,575 00         Iron work       419 00         Timber and floor boards       5,025 00         Window frames and sashes       2,013 00         Doors and frames       1,630 00         Fitting up closets       790 00         Casing pipes, lintels and patterns       300 00         Plumbing       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         ** Carpenter work       19,293 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00			3,495	00
Stairs       1,200 00         Base boards       500 00         Sheathing       1,200 00         Painting and glazing       3,800 00         Bells and tubes       250 00         Ventilation       250 00         Steam heating       1,800 00         Gutters and conductors       904 00         Cooking apparatus       500 00         Mantels and grates       1,575 00         Iron work       419 00         Timber and floor boards       5,025 00         Window frames and sashes       2,013 00         Doors and frames       1,630 00         Fitting up closets       790 00         Casing pipes, lintels and patterns       300 00         Plumbing       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         ** Carpenter work       19,293 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00			1,055	00
Sheathing.       1,200 00         Painting and glazing.       3,800 00         Bells and tubes.       250 00         Ventilation.       250 00         Steam heating.       1,800 00         Gutters and conductors       904 00         Cooking apparatus.       500 00         Mantels and grates       1,575 00         Iron work.       419 00         Timber and floor boards       5,025 00         Window frames and sashes.       2,013 00         Doors and frames.       1,630 00         Fitting up closets.       790 00         Casing pipes, lintels and patterns       300 00         Plumbing.       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         *59,781 00       *59,781 00         " Carpenter work.       19,293 00         " Carpenter work.       5,000 00			1,200	00
Painting and glazing.       3,800 00         Bells and tubes.       250 00         Ventilation.       250 00         Steam heating.       1,800 00         Gutters and conductors       904 00         Cooking apparatus.       500 00         Mantels and grates       1,575 00         Iron work.       419 00         Timber and floor boards       5,025 00         Window frames and sashes.       2,013 00         Doors and frames.       1,630 00         Fitting up closets.       790 00         Casing pipes, lintels and patterns       300 00         Plumbing.       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         Total mason work.       \$35,488 00         "Carpenter work.       19,293 00         "Contingencies and extras.       5,000 00	Base boards		500	00
Bells and tubes.       250 00         Ventilation.       250 00         Steam heating.       1,800 00         Gutters and conductors       904 00         Cooking apparatus.       500 00         Mantels and grates       1,575 00         Iron work.       419 00         Timber and floor boards.       5,025 00         Window frames and sashes.       2,013 00         Doors and frames.       1,630 00         Fitting up closets.       790 00         Casing pipes, lintels and patterns.       300 00         Plumbing.       2,000 00         Gas pipes.       585 00         Contingencies and extras.       5,000 00         *59,781 00       *59,781 00         " Carpenter work.       19,293 00         " Contingencies and extras.       5,000 00	Sheathing		1,200	00
Bells and tubes.       250 00         Ventilation.       250 00         Steam heating.       1,800 00         Gutters and conductors       904 00         Cooking apparatus.       500 00         Mantels and grates       1,575 00         Iron work.       419 00         Timber and floor boards.       5,025 00         Window frames and sashes.       2,013 00         Doors and frames.       1,630 00         Fitting up closets.       790 00         Casing pipes, lintels and patterns.       300 00         Plumbing.       2,000 00         Gas pipes.       585 00         Contingencies and extras.       5,000 00         *59,781 00       *59,781 00         " Carpenter work.       19,293 00         " Contingencies and extras.       5,000 00	Painting and glazing		3,800	00
Ventilation       250 00         Steam heating       1,800 00         Gutters and conductors       904 00         Cooking apparatus       500 00         Mantels and grates       1,575 00         Iron work       419 00         Timber and floor boards       5,025 00         Window frames and sashes       2,013 00         Doors and frames       1,630 00         Fitting up closets       790 00         Casing pipes, lintels and patterns       300 00         Plumbing       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         *59,781 00       *59,781 00         " Carpenter work       19,293 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00			250	00
Gutters and conductors       904 00         Cooking apparatus       500 00         Mantels and grates       1,575 00         Iron work       419 00         Timber and floor boards       5,025 00         Window frames and sashes       2,013 00         Doors and frames       1,630 00         Fitting up closets       790 00         Casing pipes, lintels and patterns       300 00         Plumbing       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         *59,781 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00	Ventilation		250	00
Gutters and conductors       904 00         Cooking apparatus       500 00         Mantels and grates       1,575 00         Iron work       419 00         Timber and floor boards       5,025 00         Window frames and sashes       2,013 00         Doors and frames       1,630 00         Fitting up closets       790 00         Casing pipes, lintels and patterns       300 00         Plumbing       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         *59,781 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00	Steam heating		1,800	00
Mantels and grates       1,575 00         Iron work       419 00         Timber and floor boards       5,025 00         Window frames and sashes       2,013 00         Doors and frames       1,630 00         Fitting up closets       790 00         Casing pipes, lintels and patterns       300 00         Plumbing       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         *59,781 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00	~		904	00
Mantels and grates       1,575 00         Iron work       419 00         Timber and floor boards       5,025 00         Window frames and sashes       2,013 00         Doors and frames       1,630 00         Fitting up closets       790 00         Casing pipes, lintels and patterns       300 00         Plumbing       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         *59,781 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00	Cooking apparatus		500	00
Timber and floor boards       5,025 00         Window frames and sashes       2,013 00         Doors and frames       1,630 00         Fitting up closets       790 00         Casing pipes, lintels and patterns       300 00         Plumbing       2,000 00         Gas pipes       585 00         Contingencies and extras       5,000 00         *59,781 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00			1,575	00
Window frames and sashes.       2,013 00         Doors and frames.       1,630 00         Fitting up closets.       790 00         Casing pipes, lintels and patterns.       300 00         Plumbing.       2,000 00         Gas pipes.       585 00         Contingencies and extras.       5,000 00         ** Total mason work.       \$35,488 00         " Carpenter work.       19,293 00         " Contingencies and extras.       5,000 00	Iron work		419	00
Doors and frames.	Timber and floor boards		5,025	00
Doors and frames.	Window frames and sashes		2,013	00
Casing pipes, lintels and patterns. 300 00 Plumbing. 2,000 00 Gas pipes 585 00 Contingencies and extras 5,000 00  **Total mason work. \$35,488 00 '' Carpenter work. 19,293 00 '' Contingencies and extras 5,000 00			1,630	00
Plumbing. 2,000 00 Gas pipes 585 00 Contingencies and extras 5,000 00  \$59,781 00  Total mason work. \$35,488 00  " Carpenter work. 19,293 00 " Contingencies and extras 5,000 00	Fitting up closets		790	00
Gas pipes       585 00         Contingencies and extras       5,000 00         \$59,781 00         Total mason work       \$35,488 00         " Carpenter work       19,293 00         " Contingencies and extras       5,000 00	<u> </u>		300	00
Contingencies and extras. 5,000 00 \$59,781 00  Total mason work. \$35,488 00  " Carpenter work. 19,293 00 " Contingencies and extras. 5,000 00	Plumbing		2,000	00
\$59,781 00  Total mason work	Gas pipes		585	00
Total mason work	Contingencies and extras		5,000	00
" Carpenter work		•	\$59,781	00
" Carpenter work	(I) ( ) 1			
" Contingencies and extras 5,000 00				
Control of the Contro				
\$59,781 00	Contingencies and extras 5,000	00		
	\$59,781	00		

# REAR CENTRE BUILDING, WITH CORRIDORS.

Excavation	\$414	00
Rough stone work	2,000	
Hammered stone	3,766	
Brick work.	16,290	
Plastering.	2,961	
Slating and tinning.	1,318	
Window frames and sashes	1,578	
Base boards.	250	
	950	
Fitting up		-
Plumbing	1,000	
Gas pipes and tubes	610	
Ventilation	200	
Copper gutters and conductors	838	
Cooking apparatus	1,500	
Mantels and grates	150	
Iron work	350	
Timber and floor boards	4,620	00
Doors and frames	1,565	
Stairs	900	
Heating	800	
Painting and glazing	3,500	00
Steam heating	800	00
Contingencies and extras	3,000	00
	\$49,360	
Total mason work		
" Carpenter work 15,773 00		

\$49,360 00

## FIRST SECTION MALE DEPARTMENT.

Excavation	\$426	00
Rough stone	1,736	00
Hammered stone	3,761	00
Brick work	25,260	00
Plastering	4,500	00
Slating and tinning	1,781	00
Stairs	800	00
Casing pipes, lintels	200	00
Sheathing	160	00
Painting and glazing	2,400	00
Steam heating	2,500	00
Gutters and conductors	1,286	00
Mantels and grates	630	00
Iron work	4,644	00
Timber and floor boards	8,892	00
Window frames and sashes	3,520	00
Doors and frames	2,272	00
Fitting up closets	600	00
Plumbing	1,200	00
Gas pipes	1,000	00
Ventilation	500	00
Contingencies and extras	2,500	00
	\$70,508	
Total Mason work		
" Carpenters' work 20,984 00		
" Contingencies and extras 2,500 00		

# FIRST SECTION FEMALE DEPARTMENT.

\$70,508 00

This section being a duplicate of the Male Department will be of the same cost, namely, seventy thousand five hundred and eight dollars.

### SECOND SECTION MALE DEPARTMENT.

Excavation	\$450 00
Rough stone	1,752 00
Hammered stone	4,020 00
Brick work	25,900 00
Plastering	4,754 00
Gutters and conductors	1,292 00
Mantels and grates	945 00
Iron work	4,168 00
Slating and tinning	1,795 00
Steam heating	2,500 00
Ventilation	500 00
Timber and floor boards	9,690 00
Window frames and sashes	3,799 00
Doors and door frames	2,248 00
Stairs	1,200 00
Fitting up closets	600 00
Casing pipes, lintels and patterns	200 00
Sheathing	100 00
Plumbing	1,200 00
Painting and glazing	2,800 00
Gas pipes and tubes	1,000 00
Contingencies and extras	2,500 00
	\$73,413 00

Total	Mason work	\$48,076 00
6.6	Carpenters' work	22,837 00
6.6	Contingencies and extras	2,500 00
		\$73,413 00

# SECOND SECTION FEMALE DEPARTMENT.

This section being a duplicate of the Male Department will be of the same cost, namely, seventy-three thousand four hundred and thirteen dollars.

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### THIRD SECTION MALE DEPARTMENT.

Rough stone work.       1,216 00         Hammered stone.       2,330 00         Brick work.       13,000 00         Plastering.       1,565 00         Slating and tinning.       773 00         Gutters and conductors.       854 00         Mantles and grates.       270 06         Iron work.       3,054 00         Steam heating.       1,500 00         Ventilation.       300 00         Timber and floor boards.       3,907 00         Window frames and sashes.       1,663 00         Door frames and doors       1,036 00         Stairs.       200 00         Fitting up closets.       500 00         Casing pipes.       150 00         Sheathing.       500 00         Plumbing.       1,000 00         Painting and glazing.       1,550 00         Gas pipes and tubes.       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00         " Carpenters' work.       10,796 00	Excavation	\$230	00
Hammered stone       2,330 00         Brick work       13,000 00         Plastering       1,565 00         Slating and tinning       773 00         Gutters and conductors       854 00         Mantles and grates       270 06         Iron work       3,054 00         Steam heating       1,500 00         Ventilation       300 00         Timber and floor boards       3,907 00         Window frames and sashes       1,663 00         Door frames and doors       1,036 00         Stairs       200 00         Fitting up closets       500 00         Casing pipes       150 00         Sheathing       500 00         Plumbing       1,000 00         Painting and glazing       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00       \$37,388 00         Total Mason work       \$25,092 00		1,216	00
Brick work       13,000 00         Plastering       1,565 00         Slating and tinning       773 00         Gutters and conductors       854 00         Mantles and grates       270 06         Iron work       3,054 00         Steam heating       1,500 00         Ventilation       300 00         Timber and floor boards       3,907 00         Window frames and sashes       1,663 00         Door frames and doors       1,036 00         Stairs       200 00         Fitting up closets       500 00         Casing pipes       150 00         Sheathing       500 00         Plumbing       1,000 00         Painting and glazing       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00		2,330	00
Slating and tinning.       773 00         Gutters and conductors.       854 00         Mantles and grates.       270 00         Iron work.       3,054 00         Steam heating.       1,500 00         Ventilation.       300 00         Timber and floor boards       3,907 00         Window frames and sashes.       1,663 00         Door frames and doors       1,036 00         Stairs.       200 00         Fitting up closets       500 00         Casing pipes.       150 00         Sheathing.       500 00         Plumbing.       1,000 00         Painting and glazing.       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Brick work	13,000	00
Slating and tinning.       773 00         Gutters and conductors.       854 00         Mantles and grates.       270 06         Iron work.       3,054 00         Steam heating.       1,500 00         Ventilation.       300 00         Timber and floor boards       3,907 00         Window frames and sashes       1,663 00         Door frames and doors       1,036 00         Stairs.       200 00         Fitting up closets       500 00         Casing pipes.       150 00         Sheathing.       500 00         Plumbing.       1,000 00         Painting and glazing.       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Plastering	1,565	00
Gutters and conductors       854 00         Mantles and grates       270 00         Iron work       3,054 00         Steam heating       1,500 00         Ventilation       300 00         Timber and floor boards       3,907 00         Window frames and sashes       1,663 00         Door frames and doors       1,036 00         Stairs       200 00         Fitting up closets       500 00         Casing pipes       150 00         Sheathing       500 00         Plumbing       1,000 00         Painting and glazing       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00		773	00
Iron work       3,054 00         Steam heating       1,500 00         Ventilation       300 00         Timber and floor boards       3,907 00         Window frames and sashes       1,663 00         Door frames and doors       1,036 00         Stairs       200 00         Fitting up closets       500 00         Casing pipes       150 00         Sheathing       500 00         Plumbing       1,000 00         Painting and glazing       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00		854	00
Steam heating       1,500 00         Ventilation       300 00         Timber and floor boards       3,907 00         Window frames and sashes       1,663 00         Door frames and doors       1,036 00         Stairs       200 00         Fitting up closets       500 00         Casing pipes       150 00         Sheathing       500 00         Plumbing       1,000 00         Painting and glazing       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Mantles and grates	270	0Ó
Ventilation       300 00         Timber and floor boards       3,907 00         Window frames and sashes       1,663 00         Door frames and doors       1,036 00         Stairs       200 00         Fitting up closets       500 00         Casing pipes.       150 00         Sheathing       500 00         Plumbing.       1,000 00         Painting and glazing.       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Iron work	3,054	00
Timber and floor boards       3,907 00         Window frames and sashes       1,663 00         Door frames and doors       1,036 00         Stairs       200 00         Fitting up closets       500 00         Casing pipes       150 00         Sheathing       500 00         Plumbing       1,000 00         Painting and glazing       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Steam heating	1,500	00
Window frames and sashes       1,663 00         Door frames and doors       1,036 00         Stairs       200 00         Fitting up closets       500 00         Casing pipes.       150 00         Sheathing.       500 00         Plumbing.       1,000 00         Painting and glazing.       1,550 00         Gas pipes and tubes.       290 00         Contingencies and extras.       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Ventilation	300	00
Door frames and doors       1,036 00         Stairs       200 00         Fitting up closets.       500 00         Casing pipes.       150 00         Sheathing.       500 00         Plumbing.       1,000 00         Painting and glazing.       1,550 00         Gas pipes and tubes.       290 00         Contingencies and extras.       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Timber and floor boards	3,907	00
Stairs       200 00         Fitting up closets.       500 00         Casing pipes.       150 00         Sheathing.       500 00         Plumbing.       1,000 00         Painting and glazing.       1,550 00         Gas pipes and tubes.       290 00         Contingencies and extras.       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Window frames and sashes	1,663	00
Fitting up closets       500 00         Casing pipes       150 00         Sheathing       500 00         Plumbing       1,000 00         Painting and glazing       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Door frames and doors	1,036	00
Casing pipes.       150 00         Sheathing.       500 00         Plumbing.       1,000 00         Painting and glazing.       1,550 00         Gas pipes and tubes.       290 00         Contingencies and extras.       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Stairs	200	00
Sheathing       500 00         Plumbing       1,000 00         Painting and glazing       1,550 00         Gas pipes and tubes       290 00         Contingencies and extras       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Fitting up closets	500	00
Plumbing. 1,000 00 Painting and glazing. 1,550 00 Gas pipes and tubes. 290 00 Contingencies and extras 1,500 00  \$37,388 00  Total Mason work \$25,092 00	Casing pipes	150	00
Painting and glazing. 1,550 00 Gas pipes and tubes. 290 00 Contingencies and extras 1,500 00  \$37,388 00  Total Mason work \$25,092 00	Sheathing	500	00
Gas pipes and tubes       290 00         Contingencies and extras.       1,500 00         \$37,388 00         Total Mason work       \$25,092 00	Plumbing	1,000	00
Contingencies and extras. 1,500 00 \$37,388 00  Total Mason work \$25,092 00	Painting and glazing	1,550	00
Total Mason work	Gas pipes and tubes	290	00
Total Mason work	Contingencies and extras	1,500	00
. , , , , , , , , , , , , , , , , , , ,		\$37,388	00
. , , , , , , , , , , , , , , , , , , ,	Total Mason work		
	, , , , , , , , , , , , , , , , , , , ,		

### THIRD SECTION FEMALE DEPARTMENT.

\$37,388 00

Contingencies and extras.. 1,500 00

This section, being a duplicate of the male department, will be of the same cost, namely, thirty-seven thousand three hundred and eighty-eight dollars.

## ENGINE BOILER AND GAS HOUSE.

Excavation	\$144 00
Rough stone work	1,192 00
Hammered stone	566 00
Brick work	2,210 00
Slating and tinning	420 00
Gutters and conductors	374 00
Iron work	100 00
Ventilation	100 00
Timber and floor boards	420 00
Window frames and sashes	208 00
Doors and frames	130 00
Fitting up	100 00
Painting and glazing	250 00
Gas pipes	30 00
Contingencies and extras	500 00
	\$6,744 00
Total Mason work \$5,106 00	
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" Carpenter work 1,138 00	
" Contingencies and extras 500 00	
\$6,744 00	

## MISCELLANEOUS.

Two Steam Boilers	\$3,200 00
Two 50 horse-power Engines	10,000 00
Fan Blower	1,000 00
Gas Apparatus	2 500 00
High Chimney (above roofs)	3,300 00
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\$20,000 00

#### RECAPITULATION OF ESTIMATES.

Main centre building complete.....

main ce	511616	bunding '	compie	UC	\$600,101	00
Rear					49,360	00
First se	ection	Male De	partme	ent	70,508	00
44	66	Fcmale	66		70,508	00
Second	66	Male	66		73,413	00
66	66	Female	66		73,413	00
Third	66	Male	66		37,388	00
66	66	Female	6.6	* * * * * * * * * * * * * * * * * * * *	37,388	00
Engine	and I	Boiler Ho	use		6,744	00
Miscella	ancou	s items			20,000	00
					\$498,503	
ABS	ГКАС	T OF TH	E DET.	AILS OF THE WITHIN E	STIMATE.	
Brick a	nd ro	ugh stone	work.		\$169,210	00
					30,979	00
Iron wo	ork .			,	24,601	00
Slating	and:	tinning			11,491	00
Copper	gutte	ers and co	nducto	rs	8,980	00
Drains	and o	esspools.			4,170	00
Carpent	ters'	work			108,508	00
					28,094	00

\$498,503 00

15,105 00

2,350 00

20,650 00

5,415 00

36,350 00

10,000 00 22,600 00

\$59.781 00

Respectfully submitted.

Plumbing and gas pipes.....

Bells, speaking tubes and elevators.....

Painting and glazing.....

Marble mantels and grates....

Heating and cooking apparatus.....

Steam engine and shafting.....

Contingencies and extras.....

NATHANIEL J. BRADLEE,

Architect.



