

THE CITY RECORD.

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THE CITY RECORD.

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JOHN PURROY MITCHEL, MAYOR.

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BOARD OF ALDERMEN.

PUBLIC HEARINGS.

The Committee on Health of the Board of Aldermen will hold a public hearing on Thursday, February 19, 1914, at 2.30 o'clock p. m. in the Aldermanic Chamber, City Hall, Borough of Manhattan, on the following matter:

No. 38. Request of Department of Health that the Board of Aldermen designate Seton Hall in The Bronx as a site for a contagious disease hospital.

All persons interested are respectfully invited to attend.
f11,19 P. J. SCULLY, City Clerk and Clerk of the Board of Aldermen.

The Committee on Recreation of the Board of Aldermen will hold a public hearing in the Aldermanic Chamber, City Hall, Borough of Manhattan, on Thursday, February 19, 1914, at 11 o'clock a. m., on the following:

No. 191. Resolution for a playground at 131st st. and Broadway, Manhattan.

All persons interested are respectfully invited to attend.

f10,19 P. J. SCULLY, City Clerk and Clerk of the Board of Aldermen.

The Committee on General Welfare of the Board of Aldermen will hold a public hearing in the Aldermanic Chamber, City Hall, Borough of Manhattan, on Friday, February 20, 1914, at 2 o'clock p. m. on the following subject:

No. 229. An ordinance prohibiting misleading advertising.

The Committee on General Welfare will also hold a public hearing on the same day, at the same place, commencing at 3 o'clock p. m. on the following proposed ordinances:

No. 166. In relation to posting notices concerning speed regulations in garages.

No. 167. Ordering vehicles to come to a complete stop before crossing any street or avenue running north or south.

All persons interested in these matters are respectfully invited to attend.

f9,20 P. J. SCULLY, City Clerk and Clerk of the Board of Aldermen.

The Committee on Recreation of the Board of Aldermen will hold a public hearing on Thursday, February 26, 1914, at 11 o'clock a. m., in the Aldermanic Chamber, City Hall, Borough of Manhattan, on the following subject:

No. 240. Resolution requesting the Board of Education and the Board of Estimate and Apportionment to provide bathing facilities in East New York High School.

All persons interested are respectfully invited to attend.

f9,26 P. J. SCULLY, City Clerk and Clerk of the Board of Aldermen.

PUBLIC SERVICE COMMISSION—FIRST DISTRICT.

No. 154 NASSAU STREET, NEW YORK CITY.

Calendar for the Week Commencing February 16, 1914.

Tuesday, February 17, 1914—10.30 a. m.—Room 310—Case No. 1777—New York Consolidated Railroad Company, Nassau Electric Railroad Company, South Brooklyn Railway Company—“Service to and across Brooklyn Bridge”—Commissioner

Williams, 11 a. m.—Room 305—Case No. 1780—Staten Island Railway Company—“Alteration of grade crossings at Amboy road and Sharott avenue, Pleasant Plains”—Commissioner Cram, 11 a. m.—Room 305—Case No. 1772—Staten Island Midland Railway Company and Richmond Light and Railroad Company—“Additional cars and service”—Commissioner Cram, 11 a. m.—Room 305—Case No. 1745—Long Island Electric Railway Company—“Roadbed and tracks on Far Rockaway division”—Commissioner Cram, 12.15 p. m.—Room 305—Case No. 1538—Nassau Electric Railroad Company and Brooklyn Heights Railroad Company—“Exchange of transfers”—Whole Commission, 12.15 p. m.—Room 305—Case No. 1646—Nassau Electric Railroad Company and Brooklyn Heights Railroad Company—“Transfers between Bergen street and 16th avenue and Greenpoint lines and between Vanderbilt avenue and Gates avenue lines”—Whole Commission, 12.15 p. m.—Room 305—Broadway—4th avenue rapid transit railroad—“Proposed form of contract for construction of Section No. 2 of Route No. 20, Canal street, between Broadway and the Bowery”—Whole Commission, 2.30 p. m.—Room 305—Case No. 1787—Woodhaven Gas Light Company—Albert C. Schwarz et al., complainants—“Rate for gas in the 4th Ward, Borough of Queens”—Commissioner Maltbie.

Wednesday, February 18, 1914—12 m.—Room 305—Case No. 1794—Brooklyn Heights Railroad Company—“Service on Flatbush avenue line”—Whole Commission, 2.30 p. m.—Room 305—Case No. 1788—New York Railways Company—“Service on 8th avenue, 6th avenue and Christopher street lines”—Commissioner Maltbie, 2.30 p. m.—Room 310—Case No. 1763—New York Steam Company—“Improvements in methods and property”—Commissioner Eustis.

Thursday, February 19, 1914—2.30 p. m.—Room 305—Case No. 1540—Edison Electric Illuminating Company of Brooklyn—Albert Moritz et al., complainants—“Rate for electricity in Brooklyn”—Commissioner Maltbie, 3 p. m.—Room 310—Case No. 1793—New York Railways Company and Central Crosstown Railroad Company of New York—“Application for approval of operating agreement for 1914”—Commissioner Maltbie.

Friday, February 20, 1914—11 a. m.—Room 305—Case No. 1789—Electrical corporations, railroad corporations and street railroad corporations—“Marking structures for carrying overhead wires and pillars for support of overhead tracks”—Commissioner Cram, 12.15 p. m.—Room 305—7th avenue—Lexington avenue rapid transit railroad—“Proposed form of contract for construction of Section No. 7 of Route No. 5, Lexington avenue, between 43d street and 53d street”—Whole Commission.

Meeting of the Committee of the Whole held Tuesday, Wednesday, Thursday and Friday at 10.30 a. m. in the Committee Room.

Regular meeting of the Commission held every Tuesday and Friday at 12.15 p. m. in Room 310.

DEPARTMENT OF FINANCE.

WARRANTS MADE READY FOR PAYMENT IN DEPARTMENT OF FINANCE MONDAY, FEBRUARY 16, 1914.

Below is a statement of warrants made ready for payment on the above date showing therein the Department of Finance voucher number, the date or dates of the invoices or bills, the date the voucher was filed in the Department of Finance, the name of the payee and the amount of the claim.

Where two or more bills are embraced in the warrant, the dates of the earliest and latest are given.

All of the warrants mentioned are forwarded through the mail unless some reason exists why payment is to be made in person, in which event written notice will be promptly given to the claimant.

In making a written or verbal inquiry at this office as to any of the below mentioned warrants, it is requested that reference be made by the Department of Finance voucher number.

WM. A. PRENDERGAST, Comptroller.

Finance Voucher No.	Invoice Dates.	Received in Department of Finance.	Name of Payee.	Amount.
Commissioners of Accounts.				
19865	2-13-14	New York Telephone Co.....		\$23 15
19867	2-12-14	United Electric Service Co.....		11 80
19940	2-13-14	James McGinley, Acting Commissioner of Accounts		297 83
20115	2-13-14	Hervey White		80 00
Art Commission.				
19866	2-12-14	United Electric Service Co.		\$15 10
19868	2-12-14	J. Q. Adams, Assistant Secretary		100 00
Armory Board.				
19891	1-13-14	Charles B. Spies		\$6 00
19892	2-13-14	William P. Youngs & Bros.		7 50
Bellevue and Allied Hospitals.				
18356	2-9-14	John L. Radermacher		\$30 00
20472	2-13-14	C. D. Noyes		60 00
18583	2-10-14	Grennut, Siegel Cooper Co.		327 18
Department of Bridges.				
18252	2-9-14	John Davis' Sons		\$80 00
18261	2-9-14	Egleston Brothers & Co.		48 50
19486	2-11-14	Municipal Garage		104 20
19487	2-11-14	Municipal Garage		94 33
Municipal Civil Service Commission.				
20118		Kenneth Allen		\$333 33
20119	2-13-14	Ernest F. Robinson		225 00
20120	2-13-14	Herbert W. Harvey		150 00
20122		Florence M. Dolan		83 33
Department of Correction.				
19190		The Babcock & Wilcox Co.		\$34 80
19191	2-11-14	American Pastry and Mfg. Co.		187 50
19192	2-11-14	American Pastry and Mfg. Co.		194 00
County Clerk, Queens County.				
17621	2-9-14	Baker, Voorhis & Co.		\$70 50
18435	2-10-14	The Newtown Register		95 00
County Clerk, Kings County.				
17266	2-7-14	Elliott-Fisher Co.		\$198 00
15761	1-21-14	Ideal Ventilator Co.		\$89 25
Supreme Court, Second Department.				
18561	2-10-14	Fallon Law Book Co.		\$57 00
Court of Special Sessions.				
18837	2-10-14	Frank W. Smith, Chief Clerk.		\$329 54
Municipal Court, City of New York.				
17688	2-9-14	Fallon Law Book Co.		\$306 00
17689	2-9-14	The Globe-Wernicke Co.		44 00
17690		Gimbel Bros.		71 50

Finance Voucher No.	Invoice Dates.	Received in Depart- ment of Finance.	Name of Payee.	Amount.	Finance Voucher No.	Invoice Dates.	Received in Depart- ment of Finance.	Name of Payee.	Amount.
City Magistrates' Courts.									
13547		1-30-14	A. Peatson's Sons	\$330 05	19087	2-11-14	James A. Miller	121 70	
Department of Docks and Ferries.									
19430		2-11-14	Department of Docks and Ferries	\$301 51	19092	2-11-14	Domestic Mills Paper Co.	5 85	
19433		2-11-14	R. Hoe & Co.	30 00	19094	2-11-14	M. J. Tobin	3 89	
19436		2-11-14	H. W. Johns-Manville Co.	23 98	19097	2-11-14	Geo. T. Montgomery	45 53	
19437		2-11-14	The Babcock & Wilcox Co.	542 00	19101	2-11-14	A. J. Nystrom & Co., Inc.	27 80	
19438		2-11-14	The Babcock & Wilcox Co.	190 00	19102	2-11-14	A. W. Elson & Co.	11 58	
19439		2-11-14	Hayden & Derby Mfg. Co.	85 00	19104	2-11-14	O. T. Louis Co.	16 61	
19440		2-11-14	Jenkins Bros.	17 28	19105	2-11-14	Geo. T. Montgomery	349 54	
19441		2-11-14	American Steam Pump Co.	15 94	19106	2-11-14	M. J. Tobin	13 20	
19442		2-11-14	The Hayden & Derby Mfg. Co.	15 70	19108	2-11-14	Cavanagh Bros. & Co.	3 22	
19443	1-27-14	2-11-14	Wacker & Flannigan	328 50	19110	2-11-14	Cavanagh Bros. & Co.	17 16	
19445		2-11-14	The Long Island Railroad Co.	27 30	19111	2-11-14	M. J. Tobin	4 06	
19446		2-11-14	Bouker Contracting Co.	123 75	19114	2-11-14	Geo. T. Montgomery	92	
19451		2-11-14	New York Telephone Co.	586 71	19121	2-11-14	M. J. Tobin	1 02	
District Attorney, Richmond County.									
19838		2-13-14	Charles A. Leed	\$77 50	19122	2-11-14	M. J. Tobin	189 98	
19839		2-13-14	J. E. Kessig	14 00	19124	2-11-14	Geo. T. Montgomery	99 76	
19840			Owen Keenan	22 50	19125	2-11-14	E. Steiger & Co.	74 98	
19841		2-13-14	Charles G. Armstrong & Son	700 00	19126	2-11-14	M. J. Tobin	4 06	
19844		2-13-14	J. D. Smith	25 00	19118	2-11-14	Domestic Mills Paper Co.	7 81	
District Attorney, Bronx County.									
19576		2-11-14	Henry Martin, Official Stenographer	\$40 00	19120	2-11-14	M. J. Tobin	8 26	
Board of Elections.									
19458			Clynta Water Co.	\$1 50	19123	2-11-14	C. H. Congdon	3 00	
19459			Great Bear Spring Co.	5 10	19177	2-11-14	C. H. Congdon	22 00	
19461		2-11-14	Foster-Scott Ice Co.	6 25	19178	2-11-14	C. H. Congdon	22 00	
Department of Education.									
7783		1-17-14	John J. Kenny	\$467 00	19181	2-11-14	The Combination Rubber Mfg. Co.	21 60	
15107		2-2-14	H. Hanig	31 50	19184	2-11-14	Barnett & Brown	12 50	
17398		2-9-14	Jas. J. Fay	75 05	19185	2-11-14	American Flag Co.	35 00	
17399		2-9-14	Robertson & Conry	130 79	19186	2-11-14	A. P. W. Paper Co.	130 00	
17405		2-9-14	J. D. Duffy	37 45	19188	2-11-14	E. Steiger & Co.	57 50	
17406		2-9-14	Joseph D. Duffy	46 74	19193	2-11-14	Moller & Schumann Co.	22 00	
17426		2-9-14	Eugene Frank	191 00	19194	2-11-14	E. Steiger & Co.	13 00	
17429		2-9-14	Henry Schmerzler & Co.	182 00	19199	2-11-14	E. Steiger & Co.	396 79	
17431			Hammacher, Schlemmer & Co.	34 71	19204	2-11-14	C. H. Congdon	42 00	
17434		2-9-14	Hammacher, Schlemmer & Co.	92 03	19205	2-11-14	S. Tuttle's Son & Co.	3,323 52	
17437		2-9-14	The Oliver Typewriter Co.	27 00	19206	2-11-14	Hartwell-Clitter Coal Co.	263 94	
17438			Hammacher, Schlemmer & Co.	51 97	19467	2-11-14	Hartwell-Clitter Coal Co.	65 26	
17446		2-9-14	F. N. Dubois & Co.	46 43	19468	2-11-14	Standard Oil Co. of N. Y.	1 96	
17449			Addressograph Co.	274 85	19469	2-11-14	A. G. Spalding & Bros., Inc.	50	
17450		2-9-14	Department of Correction	591 40	19470	2-11-14	The J. W. Pratt Co.	24 60	
17452			The H. B. Clafin Co.	62 60	19471	2-11-14	Gerry & Murray	95	
17453			The H. B. Clafin Co.	149 20	19473	2-11-14	The J. W. Pratt Co.	95	
17454		2-9-14	The Crowell Publishing Co.	40 00	19474	2-11-14	M. J. Tobin	14 30	
17456			Bloomingdale Bros.	61 00	19476	2-11-14	Tower Manufacturing & Novelty Co.	1 35	
17457		2-9-14	John Wanamaker, New York	165 00	19478	2-11-14	The Macey-Dohme Co.	1 50	
17458		2-9-14	Singer Sewing Machine Co.	240 00	19498	2-11-14	Flushing Automobile Garage	4 90	
17461		2-9-14	Joseph F. Egan	293 00	19499	2-11-14	E. J. Edmond Co.	6 30	
17462		2-9-14	John Keller & Son	177 50	19500	2-11-14	Ellis A. Gimbel	188 52	
17463		2-9-14	L. A. Whitney Electric Co.	296 00	19501	2-11-14	Educational Publishing Co.	5 32	
17464		2-9-14	A. E. Keller	160 00	19502	2-11-14	Ellis A. Gimbel	16 77	
17467		2-9-14	Thomas McKeown	29 00	19503	2-11-14	John Wanamaker, New York	5 30	
17472		2-9-14	Gustav Killenberg	52 00	19505	2-11-14	Longmans, Green & Co.	64	
17473		2-9-14	H. R. Ostrander & Co.	46 50	19509	2-11-14	G. P. Putnam's Sons	1 80	
17476		2-9-14	Theo. W. Morris & Co.	79 50	19513	2-11-14	The Baker & Taylor Co.	18 74	
17479		2-9-14	P. J. Andrews	35 00	19514	2-11-14	Educational Publishing Co.	3 88	
17490		2-9-14	Gaifes, Peace & Co.	38 00	19515	2-11-14	American Book Co.	10 53	
17514		2-9-14	John Wanamaker, New York	31 50	19516	2-11-14	Charles Scribner's Sons	4 85	
17529			Brooklyn Window Shade Co.	204 00	19518	2-11-14	Syndicate Trading Co.	18 48	
17531		2-9-14	Richmond School Furniture Co.	48 00	19520	2-11-14	E. P. Dutton & Co.	48 01	
17538		2-9-14	Jas. J. Fay	59 74	19522	2-11-14	The Baker & Taylor Co.	58 85	
17549		2-9-14	Agent and Warden Sing Sing Prison	312 00	19523	2-13-14	Thomas H. Woods	12 50	
17557		2-9-14	J. W. O'Brien	49 81	19524	2-13-14	Ernest Capell	9 50	
17594		2-9-14	H. Gordon	49 50	19525	2-13-14	Charles J. O'Brien	10 00	
17741		2-9-14	Brooklyn Window Shade Co.	49 50	19526	2-13-14	The J. W. Pratt Co.	5 85	
17742		2-9-14	H. Gordon	68 35	19527	2-13-14	Remington Typewriter Co.	2 50	
17759			The New Home Sewing Machine Co.	74 00	19528	2-13-14	Corcoran, Fitzgerald & Co.	3 17	
17800		2-9-14	Geo. F. Bason	55 22	19529	2-13-14	Krengel Mfg. Co.	42	
17812		2-9-14	William Buchanan	45 79	19530	2-13-14	Wm. Bratter & Co.	22 70	
17813		2-9-14	D. J. Carey	29 15	19531	2-13-14	American Distilled Water Co.	2 40	
17867		2-9-14	C. H. Browne	578 00	19532	2-13-14	American Distilled Water Co.	2 88	
17868			C. H. Browne	562 00	19533	2-13-14	Albert Bros.	3 60	
17870		2-9-14	The Manhattan Supply Co.	503 00	19534	2-13-14	Coreoran, Fitzgerald & Co.	4 72	
17871		2-9-14	A. P. Kramer	248 00	19535	2-13-14	The J. W. Pratt Co.	14 20	
17873		2-9-14</td							

Finance Voucher No.	Invoice Dates.	Received in Depart- ment of Finance.	Name of Payee.	Amount	Finance Voucher No.	Invoice Dates.	Received in Depart- ment of Finance.	Name of Payee.	Amount.
19818	2-12-14	Bacon Coal Co.	40 00	19349	2-11-14	Henry C. Beadleston and Alice Lee Beadleston	4,146 50		
19819	2-12-14	Meyer & Schrader	16 00	19350	2-11-14	William E. Miller and Ida Miller	505 50		
19820	2-12-14	Crown Stamp Works	3 64	19351	2-11-14	New Rochelle Water Co.	497 28		
19821	2-12-14	Tower Mfg. & Novelty Co.	15 28	19352	2-11-14	Rose Gibney and Mary C. Gibney	1,210 68		
19822	2-12-14	Manhattan Supply Co.	2 28	19353	2-11-14	Eda Lyde Fornes	3,032 05		
19823	2-13-14	James T. Dougherty	29 52	19354	2-11-14	White Plains Construction Co.	7,077 09		
19826	2-12-14	North American Metaline Co.	3 69	19355	2-11-14	Ellen Beehan	9,863 49		
19827	2-12-14	The Lunkenheimer Co.	3 50	19356	2-11-14	Ellen Beehan	1,001 55		
19828	2-12-14	Remington Typewriter Co., Inc.	60	19357	2-11-14	Michael Hickey and Ellen Hickey	6,066 08		
19829	1-27-14	Henry W. Schmall	18 50	19358	2-11-14	Charles J. Arbruster	1,011 67		
19830	2-12-14	Charles Cooper & Co.	1 50	19359	2-11-14	Natale Bambace and Rosa Bambace	25,060 90		
20077	2-13-14	Robert Adamson, Fire Commissioner..	300 00	19360	2-11-14	John H. McArdle	5,457 70		
Department of Health.									
16266	2- 5-14	Bausch & Lomb Optical Co.	\$144 69	19361	2-11-14	Patrick J. Mahoney and Mary M. Roberts	3,089 13		
18824	2-10-14	Sulzberger & Sons Co.	19 78	19362	2-11-14	Clifford W. Ellison and Maud S. Ellison	6,819 90		
18825	2-10-14	Bloomingdale Bros.	6 92	19363	2-11-14	William A. Davis and Emma G. Davis.	423 47		
18826		Henry Allen	28 80						
18827	2-10-14	Bausch & Lomb Optical Co.	119 40						
18730	2-10-14	John Bellmann	43 42						
18843	2-10-14	Armour & Co.	71 71						
18845	2-10-14	A. Silz, Inc.	40 42						
18848	2-10-14	Burton & Davis Co.	20 25						
18856	2-10-14	John Greig	97 56						
18860	2-10-14	Emil Greimer Co.	95 76						
Board of Inebriety.									
19777	2-12-14	Western Union Telegraph Co.	\$1 02	19846	2-13-14	Fowler Manufacturing Co., Ltd.	\$1 50		
19778	2-12-14	American District Telegraph Co.	1 20	19847	2-13-14	Foster-Scott Ice Co.	2 25		
19779	2-13-14	The Central Window Cleaning Co.	1 50	19848	2-13-14	T. V. Kraft & Co.	3 05		
19782	2-13-14	Warwick Valley Light & Power Co.	6 86	19849	2-13-14	Library Bureau	81		
19783	2-13-14	Oliver P. Morse, Farmer and Caretaker	17 42	19850	2-10-14	New York Telephone Co.	8 10		
19784	2-13-14	Tower Mfg. & Novelty Co.	1 85	19851	2-13-14	Janet A. Glendinning	2 12		
19785	2-13-14	New York Telephone Co.	19 76	19852	2-13-14	Janet A. Glendinning	1 85		
19786	2-13-14	Charles Samson, Executive Secretary.	12 00	19853	2-13-14	Janet A. Glendinning	6 55		
19787	2-13-14	Welch Bros.	3 98	19854	2-13-14	Munson Supply Co.	3 15		
19788	2-13-14	James H. McPeek	10 85						
Law Department.									
18238	2- 9-14	William P. Cherry	\$22 80						
The Mayoralty.									
17262a	2- 7-14	Davis, Laheney & Co.	\$119 50						
Department of Parks, Boroughs of Manhattan and Richmond.									
16516	2- 5-14	Stanley & Patterson	\$111 46	18970	2-10-14	The Barber Asphalt Paving Co.	\$1,970 44		
19227	2-11-14	Municipal Garage	89 66	18971	2-10-14	Daniel J. Donelin	178 30		
19228	2-11-14	Igoe Brothers	15 13	19543	2-11-14	The Auto Supply Co.	19 80		
19235	2-11-14	New York Stencil Works	9 85	19544	2-11-14	D. Shapiro	35		
19239	2-11-14	James Mulligan	41 00	19545	2-11-14	Leahy Contracting & Construction Co.	16 93		
19764	2-11-14	The R. F. Stevens Co.	13 95	19546	2-11-14	Keuffel & Esser Co.	240 21		
19765	1-31-14	F. Kindt Co.	35 80	19547	2-11-14	Edward F. Miller, Inc.	1 10		
19766	2-11-14	Frank G. Behrens	87 50	19548	2-11-14	Real Estate Record and Builders' Guide	8 00		
19767	2-11-14	Western Electric Co.	7 00	19549	2-11-14	Nickel Towel Supply	42 93		
19768	2-11-14	Frederic Godfrey	106 00	19550	2-11-14	Schildwachter Ice Co.	60 67		
19770	2-11-14	E. G. Mendenhall	2 50	19551	2-11-14	W. F. Bartholomew	14 60		
19773	2-11-14	John M. Wolf Co.	2 70	19552	2-11-14	William Isemann	3 66		
19774	2-11-14	Stanley & Patterson.	8 83	19553	2-11-14	William Isemann	1 12		
19776	2-11-14	Brooklyn Safe Co.	48 00	19554	1-11-14	Vaccum Oil Co.	17 68		
20116	2-13-14	J. F. Gillespie, D. V. S.	54 50	19555	2-11-14	A. Rudolph	3 54		
Bronx Parkway Commission.									
19301		Mina Sturzenegger	13,904 47	19556	2-11-14	Library Bureau	13 41		
19302	2-11-14	Consolata De Pasquale.	19,752 88	19557	2-11-14	The New York Multi-Color Copying Co.	2 70		
19303	2-11-14	Charles Woelk	17,178 85	19558	2-11-14	Library Bureau	8 10		
19304	2-11-14	Maggie Foussadier	25,263 01	19559	2-11-14	Keuffel & Esser Co.	13 38		
19305	2-11-14	George F. Bates	2,529 59	19560	2-11-14	The Fairbanks Co.	7 50		
19306	2-11-14	Marie Evrard Renault	7,679 95	19561	2-11-14	Agent and Warden Clinton Prison.	6 75		
19307		Giuseppe Scattellaro and Giuseppe Caposso	16,509 27	19562	2-11-14	Keuffel & Esser Co.	64 00		
		Charles R. Temple, assignee of Giuseppe Scattellaro and Giuseppe Caposso	1,810 88	19563	2-11-14	H. G. Silleck, Jr.	35 00		
19308	2-11-14	Stacy Woodman Kapp	7,577 67	19564	2-11-14	Tremont Hardware Co., Inc.	58 84		
19309	2-11-14	Annette L. Edwards	11,619 10	19565	2-11-14	Tremont Auto & Carriage Works.	2 00		
19310	2-11-14	George A. Crump and Belle D. Crump	4,708 33	19566	2-11-14	Otto Haas	2 10		
19311	2-11-14	Edward Brennan and Katherine C. Brennan	23,754 96	19567	2-11-14	Stephen H. Welch	25 54		
19312	2-11-14	Knickerbocker Ice Co.	9,610 88		2-11-14	Chas. H. Nichols	70 38		
19313	2-11-14	Mina Sturzenegger	7,011 38		2-10-14	United States Wood Preserving Co.	1,693 02		
19314	2-11-14	James M. Duffy and William J. Duffy	758 26						
19315	2-11-14	Grace L. Mack	3,184 69						
19316	2-11-14	Annie I. Johnston	1,373 13						
19317	2-11-14	Lina Schrader and Flora Heberlein	2,279 46						
19318	2-11-14	William S. Paton	2,811 70						
19319	2-11-14	Anna A. Owen and Clara B. Owen	2,761 76						
19320	2-11-14	Bronx Borough Bank, assignee of Fremont Realty Co.	8,000 00						
19321	2-11-14	Fremont Realty Co.	10,186 41						
19322	2-11-14	Don P. Fullam and Harriet L. Fullam	15,069 41						
19323	2-11-14	Henry F. Vogt and Catherine M. Vogt	35,414 25						
19324	2-11-14	Emanuel G. Bach	1,018 54			</td			

Finance Voucher No.	Invoice Dates.	Received in Depart- ment of Finance.	Name of Payee.	Amount.	Finance Voucher No.	Invoice Dates.	Received in Depart- ment of Finance.	Name of Payee.	Amount.			
Department of Public Charities.												
14485	1-31-14	Greenhut, Siegel Cooper Co.	\$153 99	20206	2-13-14	Howard Place Co.	7 80					
17321	2-7-14	Armour & Co.	278 52	20207	2-13-14	A. B. Dick Co.	5 50					
17323	2-10-14	John Bellmann	9 88	20208	2-13-14	De Grauw, Aymar & Co.	2 70					
17324	2-7-14	Lewis De Groff & Son	213 50	20210	2-13-14	Ida Osborne	27 42					
17327	2-7-14	Robert P. Lawless	545 16	20211	2-13-14	Henry A. Brown	4 00					
17328	2-7-14	Horace Ingerson Co.	402 19	20474	Board of Water Supply.							
17329	2-7-14	Meyer, Denker, Simran Co.	832 78	18486	2-13-14	James D. Maher	\$135 00					
17330	2-7-14	The Watters Laboratories	18 36		2-10-14	Tower Manufacturing & Novelty Co.	154 94					
18732	2-10-14	Pattison & Bowns	1,261 42		Department of Water Supply, Gas and Electricity.							
18672	2-10-14	Library Bureau	4 05	18165	2-9-14	Pattison & Bowns	\$168 81					
18674	2-10-14	J. J. Snyder & Son	57 22	18174	2-9-14	The Columbia Machine Works & Malleable Iron Co.	33 42					
18684	2-10-14	Rebecca Melicow	27 00		2-9-14	M. T. Davidson Co.	58 50					
18686	2-10-14	The Arlington Chemical Co.	24 80	18176	2-9-14	Charles D. Norton Co.	3,494 42					
18706	2-10-14	Frederick Loeser & Co.	21 60	18315	2-11-14	Knickerbocker Ice Co.	15 17					
18707		Greenhut, Siegel Cooper Co.	275 94	18878	2-11-14	John H. Hunter	5 75					
18733	2-10-14	Charles D. Norton Co.	1,739 92	18881	2-10-14	Town of Southeast, George H. Reynolds, Collector	15,035 37					
18734	2-10-14	William Nungasser	491 86	18981	2-11-14	Wilbur V. Gould	2 25					
18737	2-10-14	Pattison & Bowns	988 36		2-11-14	Wilbur V. Gould	5 25					
18738	2-10-14	Pattison & Bowns	1,614 28	19276	2-11-14	H. B. Machen	2 35					
20014	2-13-14	Charles L. Allers	70 00	19277	2-11-14	Michael Gannarella	3 00					
19671	2-11-14	The Coal & Transfer Co.	337 50	19278	2-11-14	Robert J. O'Meara	11 55					
19676		Wood & Selick	65 05	19279	2-11-14	William Hauck, Engineer	12 19					
19677	2-11-14	Henry R. Worthington	68 88	19281	2-11-14	A. Williamson, Mechanical Engineer	8 01					
19678	2-11-14	James Thompson & Sons	306 40	19282	2-11-14	A. Williamson, Mechanical Engineer	5 94					
19679	2-11-14	Singer Sewing Machine Co.	92 50	19285	2-11-14	F. B. Nelson, Assistant Engineer	38 20					
19680	2-13-14	Frank Richard & Gardner Co.	25 50	19286	2-11-14	F. B. Nelson, Assistant Engineer	33 56					
19685		East River Mill & Lumber Co.	347 06	19287	2-11-14	F. B. Nelson, Assistant Engineer	44 25					
19686		A. C. Laurence	186 00	19288	2-11-14	Fred B. Nelson	63 22					
19690	2-11-14	Agent and Warden of Sing Sing Prison	66 00	19289	2-11-14	William Hauck	69 91					
19694		Charles F. Mattlage & Sons	55 50	19290	2-11-14	W. W. Brush	4 50					
Register, Bronx County.												
19522	2-11-14	C. J. Mechling	\$22 00	19292	2-11-14	William Hauck	3 75					
19523	2-11-14	J. Schapiro	12 98	19293		Luther R. Sawin	17 63					
Department of Street Cleaning.												
21180		J. H. Timmerman, City Paymaster	\$30,000 00	19298	2-11-14	B. M. Wagner, Assistant Engineer	13 20					
Tenement House Department.												
19414	2-11-14	John Konig	\$12 11	19300	2-11-14	William R. McGuire, Water Registrar	43 50					
19424	2-11-14	Brooklyn Daily Eagle	1 00	19599	2-11-14	H. H. Fout	20 00					
19426	2-11-14	Robert J. Freeman	70	19600	2-11-14	Wm. A. Drew, Engineer	37 91					
19427	2-11-14	John Wanamaker, New York	7 50	19609	2-11-14	William R. McGuire, Water Registrar	253 50					
19428	2-11-14	The Globe Wernicke Co.	28 50	19613	2-11-14	The Hastings Pavement Co.	8 05					
19429	2-11-14	Theo. Moss & Co.	3 50	19614	2-11-14	Benj. A. Keiley, Water Registrar	1 32					
United States Volunteer Life-Saving Corps.												
20203	2-13-14	F. O. Pierce Co.	\$1 56	19618	2-11-14	Richard McGowan	66 20					
20204	2-13-14	Charles Bang	3 74	19620	2-11-14	T. F. Creelly	56 55					
20205	2-12-14	The M. McNamara Stamp & Stencil Works	5 50	19621	2-11-14	Alpheus Peck	75 50					
				19622	2-11-14	F. W. Hancock, Supervising Engineer	28 69					
				19665	2-11-14	George R. Jones	20 00					
					2-11-14	Frank E. Hale	16 20					
					2-11-14	Frank E. Hale	42 25					
					2-11-14	H. H. Havill	16 05					
					2-11-14	Beaver Engineering & Contracting Co.	6,696 39					

VOUCHERS RECEIVED IN DEPARTMENT OF FINANCE MONDAY, FEBRUARY 16, 1914.

A statement is herewith submitted of all vouchers filed in the Department of Finance on this date in which is shown the Department of Finance voucher number, the date or dates of the invoices or bills, the name of the payee and the amount of the claim. Where two or more bills are embraced in one voucher, the dates of the earliest and latest are given.

If the vouchers are found to be correct, and properly payable to the respective claimants, it will be my endeavor to have the warrants therefor made ready for payment within the next seven days.

If any claimant within the time stated does not receive his warrant or a written notice in relation thereto, then written or verbal inquiry may be made at this office, using the Department of Finance voucher number as a ready means of reference.

WM. A. PRENDERGAST, Comptroller.

Finance Voucher-Name of Payee Amount
er No. Dates.

Bellevue and Allied Hospitals.			
20808		Rock Island Butter Co.	\$2,335 32
20809	1-31-14	Strauss Bros.	6,319 99
20810	1-31-14	Conron Bros. & Co.	2,563 21
20811	1-31-14	Shultz Bread Co.	1,392 56
20812	1-31-14	Jas. T. Smith, Inc.	578 14
20813	1-31-14	Borden's Condensed Milk Co.	5,172 88
20814	12-27-13	John W. Peale	1,488 56
20815	11-1-13	Armour & Co.	227 16
20855	11-24-13	P. Lawless' Sons	27 00
20856	12-27-13	Louis F. Mazzetti	5 25
20857	12-19-13	Charles H. Mattlage	39 00
20858	11-29-13	New York Diet Kitchen Association	119 00
20859	11-26-13	National Biscuit Co.	3 04
20860	12-22-13	J. Bellmann	19 20
20861	12-24-13	F. H. Leggett & Co.	58 81
20862		Rock Island Butter Co.	69 53
20863	10-2-13	Sulzberger & Sons Co.	134 20
20864	12-26-13	J. D. Stout & Co.	610 75
20865	12-31-13	Conron Bros. Co.	952 65
20866	12-4-13	Conron Bros. Co.	657 00
20867	11-24-13	Burton & Davis Co.	197 09
20868	11-24-13	P. Lawless' Sons	12 50
20869	10-25-13	The Bridgeport Foundry & Machine Co.	351 00
20870	9-8-13	Hammacher, Schlemmer & Co.	116 76
20871	12-20-13	Standard Sheet Metal Work.	345 00
20872	12-20-13	N. J. Shery	138 00
County Clerk, Bronx County.			
20803	2-13-14	Fallon Law Book Co.	\$100 60
20804	2-7-14	Century Rubber Stamp Co.	4 10</

Finance Vouch-Invoice er No. Dates.	Name of Payee.	Amount.	Finance Vouch-Invoice er No. Dates.	Name of Payee.	Amount.	Finance Vouch-Invoice er No. Dates.	Name of Payee.	Amount.			
20847 1-30-14	C. G. Braxmar Co.	1 20	20967 1-19-14	The Dietetic & Hygienic Gazette	1 00	21187 1- 1-14	Jos. W. Wanty	12 00			
20848 1-17-14	Wagner Specialty Co.	6 90	20968 1-23-14	Merck & Co.	8 40	21188 1- 1-14	Jos. W. Wanty	1 75			
20849 2- 3-14	Manhattan Electrical Supply Co.	1 10	20969 1- 5-14	Crown Stamp Works	60	21189 1- 5-14	J. W. Fiske Iron Works	233 00			
20850 1-26-14	Stromberg Motor Devices Co.	1 29	20970 1-20-14	Schieffelin & Co.	6 00	21190 12-24-13	F. H. Van Duzer	12 50			
20851 1-31-14	A. J. Picard & Co.	3 00	20971 1- 7-14	Gitzendanner, Muller Co., Inc.	3 00	21191 12-31-13	Wm. S. Van Cleef	16 90			
20852 1-30-14	Niagara Auto Radiator Co.	33 80	20972 1- 7-14	Peerless Van & Express Co.	40 00	21192 12-30-13	Staten Island Shipbuilding Co.	2 74			
20853 1-22-14	Hoffman & Scofield	33 00	20973 1-21-14	Herman Ahrendt, Jr.	1 10	21193 1- 2-14	G. Gilligan	5 40			
20854 1-12-14	P. A. Gaynor	15 00	20974 1- 3-14	Tablet & Ticket Co.	30	21194 12-26-13	Chas. Schneider	1 70			
20852 1-30-14	Seely & Ash	50	20975 1- 3-14	Knickerbocker Ice Co.	49 92	21195 1-14-14	The General Fireproofing Co.	39 96			
Department of Health.											
20874 1- 1-14	J. F. Gylsen	\$10 55	20976 1- 4-14	Lehn & Fink	13 40	21196 1- 6-14	The Tengwall Co.	3 00			
20875 11-29-13	The Harral Soap Co.	9 69	20977 12-20-13	R. Wallace & Sons Mfg. Co.	191 46	21197 1-19-14	Gregg Bros.	10 92			
20876 1-15-14	Nason Mfg. Co.	252 20	Board of Inebriety.								
20877 1- 3-14	John Wanamaker	2 64	20693 1-31-14	The Orange County Veterinary Hospital	11 50	21198 1-19-14	Gregg Bros.	11 35			
20878 1-26-14	The H. B. Claffin Co.	44 14	20694 1-31-14	E. P. Dutton & Co.	15 88	21199 1-14-14	Staten Island Supply Co.	25 00			
20880 1- 6-14	Standard Oil Co. of N. Y.	73 67	20692 2- 2-14	The General Fireproofing Co.	7 80	21200 12-23-13	The Cleveland Trinidad Paving Co.	3 00			
20881 1-14-14	Miller, Tompkins & Co.	33 03	Commissioner of Jurors, Bronx County.								
20882 1- 1-14	Baker, Voorhis & Co.	14 00	20995 1-31-14	Henry Frank	35 70	21201 12-23-13	The Cleveland Trinidad Paving Co.	9 96			
20883 11- 3-13	Consolidated Dental Mfg. Co.	22 50	20996 1-19-14	New York Tel. Co.	25 26	21202 12-23-13	The Cleveland Trinidad Paving Co.	23 25			
20884 12- 2-13	Agent and Warden, Auburn, N. Y.	87 27	20997 1-19-14	J. P. McWalters	2 50	21204 12-23-13	The Cleveland Trinidad Paving Co.	19 23			
20885 12-18-13	Gimbel Bros.	12 50	20998 1-19-14	Jacob D. Ausenberg	3 75	21205 12-30-13	John E. Donovan	46 68			
20886 12-24-13	Berkfeld Filter Co.	3 50	20999 1-19-14	Rosenfeld & Harris	2 00	21206 12-24-13	Standard Bitulithic Co.	17 22			
20887 8-30-13	Bausch & Lomb Optical Co.	9 82	21000 1-19-14	The New York Law Journal	7 00	21207 1- 1-14	C. L. De Hart	47 09			
20888 12-27-13	Library Bureau	6 52	21001 12-31-13	New York Telephone Co.	32 04	21208 1-16-14	Funk & Wagnalls Co.	38 00			
20889 12-30-13	W. F. Ford & Co.	2 00	President of the Borough of Manhattan.								
20890 12-24-13	New Jersey Frame and Picture Co.	18 00	21104 1- 3-14	Marcus M. Marks	200 00	21209 1- 3-14	The General Fireproofing Co.	4 50			
20891 12-31-13	The Kny-Scheerer Co.	424 50	21105 1- 3-14	Marcus M. Marks	120 00	21210 1- 6-14	Pennsylvania Salt Mfg. Co.	11 25			
20892 12-31-13	The Emil Greiner Co.	22 22	21140 1- 5-14	Standard Oil Co. of New York	182 80	21211 12-29-13	Staten Island Supply Co.	12 95			
20899 11-17-13	Hornthal & Co.	66 00	21141 1- 9-14	Walker & Chambers	3,427 20	21212 12-29-13	M. K. Bowman-Edson Co.	27 18			
20900 2-30-14	The Consolidated Safety Valve Co.	12 00	21142 1- 9-14	John T. Brady & Co.	12,325 00	21213 12-31-13	W. W. Cornell	27 00			
20901 12-29-13	Davis Kahnweiler's Sons	85 00	21143 1- 9-14	P. J. Kane	2,361 30	21214 1-16-14	Walter J. Drummond	241 49			
20902 7-28-13	The Consolidated Hospital Supply and Laundry Machinery Co.	159 11	President of the Borough of Brooklyn.								
20903	The Guarantee Ash Can Co.	27 00	20664 1- 3-14	Newman & Carey	5,058 77	21215 1- 9-14	The Allen-Wheeler Co.	255 00			
20879 12-31-13	Robt. P. Lawless Sons	53 20	20665 1- 3-14	Dominick Bonacci	10,057 60	21216 12-31-13	Wm. Cornell	9 25			
20893 3- 3-14	Manhattan Electrical Supply Co.	273 26	20666 1- 3-14	F. A. Pellegrino Construction Co.	2,712 31	21217 1-16-14	Amberg File and Index Co.	7 85			
20894 9-30-13	Siegfried Bussert	4 27	20667 1- 3-14	P. J. Donlon Contracting Co.	1,923 51	21218 1-14-14	Samuel Lewis	3 00			
20895 1- 3-14	A. B. Dick & Co.	80 00	20668 1- 3-14	John C. Schrade, Inc.	724 16	21219 12-26-13	P. J. Brown Carriage Co.	23 54			
20896 1- 6-14	Jas. M. Clancy	610 30	20669 1- 3-14	Tony Lapadula	2,012 23	21220 12-31-13	Wm. S. Van Cleef	81 25			
20897 1- 3-14	The Brooklyn Union Gas Co.	14 40	20670 1- 3-14	D. Donegan Co.	4,855 48	21221 12-31-13	Wm. S. Van Cleef	20 21			
20898 1-12-14	The Fairbanks Co.	32 79	21106 2- 9-14	The Roberston Construction Co.	2,040 00	21222 7-19-13	Uvalde Asphalt Paving Co.	17 88			
20899 1-17-14	Neal & Brinker Co.	56 38	21107 2- 6-14	Kimball Stamp Works	6 25	21223 8-15-13	Uvalde Asphalt Paving Co.	14 94			
20900 1-15-14	E. B. Meyrowitz	15 40	21108 2- 4-14	Municipal Garage	3 84	21224 9-19-13	Uvalde Asphalt Paving Co.	13 41			
20901 1-27-14	Agent and Warden Auburn Prison	27 00	21109 1-31-14	Eugene Dietzgen Co.	10 94	21225 10-24-13	Uvalde Asphalt Paving Co.	33 87			
20902 1- 2-14	Crawford Furniture Co.	12 00	21110 1-31-14	Municipal Garage	20 00	21226 11-20-13	Uvalde Asphalt Paving Co.	14 10			
20903 1- 7-14	John Simmons Co.	8 01	21111 1-31-14	The Standard Scale & Supply Co.	52 00	21227 11-25-13	Standard Bitulithic Co.	593 25			
20904 1-10-14	Aseptic Products Co.	5 50	21112 1-31-14	Bergstrom & Bass	131 50	21228 12-26-13	Jos. Johnson's Sons	80 00			
20910 1- 3-14	F. R. Abbey	19 75	21113 1-31-14	Clynta Water Co.	15 90	21229 1-11-13	Jos. Johnson's Sons	17 80			
20911 12-10-13	G. Gennett	2 18	21114 1- 3-14	J. P. Duffy Co.	7 20	21230 11-25-13	Richmond Light and Railroad Co.	3 54			
20912 12-31-13	Armour & Co.	188 06	21115 2- 3-14	The Ohman Map Co.	46 00	21231 11-29-13	W. W. Cornell	10 00			
20913 1- 7-14	Herman Ahrendt, Jr.	3 03	21116 1-31-14	Eugene Dietzgen Co.	11 57	21232 12-31-13	W. W. Cornell	86 00			
20914 1- 7-14	International Instrument Co.	8 00	21117 1-27-14	Louis Bossert & Son	43 89	21233 12-29-13	W. W. Cornell	4 25			
20915 12-30-13	The Globe-Wernicke Co.	4 50	21118 2- 1-14	Jas. H. Brown	21 66	21234 1-16-14	Uvalde Asphalt Paving Co.	6 60			
20916 12-31-13	Wilson & Wilson	5 50	21119 2- 1-14	The Standard Scale & Supply Co.	91 41	21235 1-21-13	Uvalde Asphalt Paving Co.	14 90			
20917 12- 8-13	Lewis Mfg. Co.	57 50	21120 1-31-14	Brooklyn Ash Removal Co.	52 00	21236 12-22-13	Uvalde Asphalt Paving Co.	20 90			
20918 1- 3-14	Alberene Stone Co.	10 00	21121 1-31-14	J. M. Palmer Co.	105 65	21237 12-31-13	Uvalde Asphalt Paving Co.	17 00			
20919 1-28-14	Frank A. Hall & Sons	117 15	21122 1-31-14	Bergstrom & Bass	25 00	21238 12-26-13	Uvalde Asphalt Paving Co.	16 00			
20920 9-24-13	Annin & Co.	4 00	21123 2- 4-14	Geo. F. Bason	55 00	21239 11-17-13	Robert A. Ford	5 00			
20921 12- 5-13	Adams-Flanigan Co.	24 24	21124 2- 2-14	Daniel A. Maher	5 50	21240 11-25-13	W. B. McVicker Co.	8 00			
20922 1-15-14	The American Laundry Machinery Co.	33 50	21125 2- 2-14	Thos. Corr	30 25	21241 11-29-13	The Fairbanks Co.	47 78			
20923 12-29-13	The American Hardware Corporation	147 60	21								

Finance Vouch-Invoice er No. Dates.	Name of Payee.	Amount.	Finance Vouch-Invoice er No. Dates.	Name of Payee.	Amount.	Finance Vouch-Invoice er No. Dates.	Name of Payee.	Amount.
20712 2-1-14	Gramatan Spring Water Co.	2 10	20736 2-7-14	National Auto Top Co.	35 00	21085 1-31-14	Clynta Water Co.	3 00
20713 2-1-14	Gramatan Spring Water Co.	60	20737 1-22-14	Carfagno & Dragonetti	31 65	21086	New York Sporting Goods Co.	24 10
20714 2-1-14	Gramatan Spring Water Co.	4 15	20738	The B. F. Goodrich Co.	25 50		Alfred Chatwin Supply Co.	22 50
20715 2-3-14	The Bristol Co.	16 11	20739 2-3-14	The Berger Mfg. Co.	280 00	21087 1-8-14	Dayton, Brower Co., Inc.	16 37
20716 1-30-14	Standard Oil Co., New York	10 00	20740 2-3-14	Vacuum Oil Co.	44 89	21088 2-1-14	J. S. Murphy	43 18
20717 1-24-14	Egan Waste Co.	17 40	20741 1-1-14	Patterson Bros.	47 81	21089 1-2-14	John Boyd Plumbing & Heating Co.	9 95
20718 1-24-14	Egan Waste Co.	17 40	21068 4-24-13	Fletcher Stanley Co.	62 92	21090 1-8-14	John Boyd Plumbing & Heating Co.	11 36
20719 1-24-14	Egan Waste Co.	26 10	21069 1-19-14	Standard Underground Cable Co.	40 26	21091 1-8-14	John Boyd Plumbing & Heating Co.	8 45
20720 1-28-14	Chas. W. Wolf	6 75	21070	New York Edison Co.	6 67	21092 1-8-14	John Boyd Plumbing & Heating Co.	16 77
20721 1-19-14	Carl H. Page & Co.	14 76	21071 1-13-14	General Electric Co.	250 00	21093 12-27-13	Joseph D. Duffy	9 40
20722 1-30-14	Firestone Tire & Rubber Co.	33 16	21072 2-1-14	I. A. Silvie, Jr.	10 65	21094 12-30-13	Henry R. Worthington	29 74
20723 1-26-14	Carl H. Page & Co.	2 20	21073 1-30-14	Agent and Warden of Auburn Prison	27 00	21095 1-6-14	Canavan & Deigan	5 13
20724 1-26-14	Firestone Tire & Rubber Co.	54 48	21074 1-30-14	A. F. Brombacher Co.	15 00	21096 12-23-13	James McCullagh	6 94
20725 1-27-14	Firestone Tire & Rubber Co.	56 26	21075 2-1-14	James Abbott	70 00	21097 12-23-13	Friedman & Bernstein	19 30
20726 1-28-14	The Lagonda Mfg. Co.	75 00	21076 2-1-14	Joseph B. Finan	70 00	21098 12-29-13	National Meter Co.	6 10
20727 1-31-14	Ball & Jewell	24 50	21077 2-1-14	Edward Cole	70 00	21099 1-9-14	John J. Kenney Co.	16 20
20728 2-2-14	Fred'k Burger & Son	2 30	21078 1-31-14	O'Rourke's Garage	83 33	21100 1-22-14	John J. Kenney Co.	4 83
20729 2-1-14	The Haupt Paint & Hardware Co.	1 55	21079 2-2-14	Wm. J. Fairman	83 33	21101 1-4-14	Thomson Meter Co.	47 75
20730 Geo. Trapp		12 30	21080 2-1-14	J. Mancini	80 00	21102 1-30-14		
20731 2-1-14	Geo. Trapp	6 00	21081 2-2-14	George W. Hudson	48 00			
20732 1-19-14	T. C. Moore & Co.	2 85	21082 1-2-14	W. W. Cornell	83 33			
20733 2-1-14	Walter H. Ambrose	162 20	21083 12-31-13	American Meter Co.	281 25			
20234 2-5-14	Bosch Magneto Co.	29 75	21084 2-9-14	The Manhattan Supply Co.	9 50			
20735 2-1-14	Richmond Garage	19 30						

Board of City Record.

Abstract of transactions for the week ending February 7, 1914.

Statement of moneys received: Subscriptions to the City Record, \$186; cash \$86.98; total, \$52,979.71.

Open Market Orders Issued After Competitive Bidding.

Name of Lowest Bidder.	Number of Orders.	Printing.	Stationery.	Books.	Total.
W. F. Albers	8	.....	.....	\$245 50	\$245 50
W. Bratter & Co.	9	\$165 60	\$154 80	49 60	370 00
Brooklyn Daily Eagle	5	51 50	61 00	.....	112 50
M. B. Brown Ptg. & Bdg. Co.	23	694 65	74 13	255 50	1,024 28
J. Cassidy Co.	1	.....	.....	49 90	49 90
P. J. Collison & Co.	1	66 52	.....	.....	66 52
H. C. Davison & Co.	1	64 70	.....	.....	64 70
Koller & Smith, Inc.	2	19 90	19 12	.....	39 02
T. Mitchell	3	.....	.....	72 00	72 00
C. S. Nathan	3	55 05	.....	.....	55 05
The O'Connell Press	1	174 00	.....	.....	174 00
The J. W. Pratt Co.	14	178 50	162 34	.....	340 84
	71	\$1,470 42	\$471 39	\$672 50	\$2,614 31

DAVID FERGUSON, Supervisor of the City Record.

Reports on File.

The following reports have been transmitted to the Mayor and are on file in the office of the Supervisor of the City Record, 13-21 Park row, and in the department affected, where they may be seen by any person interested:

Examining Board of Plumbers—Report for the year 1913.

Board of Inebriety—Report for the year 1913.

Borough of The Bronx.

Report for the week ending February 4, 1914, exclusive of Bureau of Buildings: Permits Issued—Sewer connections and repairs, 17; water connections and repairs, 21; laying gas mains and repairs, 52; placing building material on public highway, 6; crossing sidewalk with team, 17; constructing vaults, 1; miscellaneous, 40. Total, 154.

Money Received and Deposited with City Chamberlain—Permits for sewer connections, \$60; permits for restoring and repaving streets, \$705.75; permits for constructing vaults, \$120.34; sales, \$2.80. Total, \$888.89. Security deposits, received on account of permits and transmitted to Comptroller, \$485.

Laboring force employed during the week ending January 31, 1914:

Bureau of Highways: Foremen, 28; teams, 23; Mechanics, 16; Laborers, 301; Drivers, 7. Total, 375. Bureau of Sewers: Foremen, 12; Assistant Foremen, 4; carts, 29; Mechanics, 5; Laborers, 73; Drivers, 3. Total, 126. Bureau of Public Buildings and Offices: Foremen, 1; Assistant Foremen, 1; Mechanics, 9; Laborers, 20; Cleaners, 38; Watchmen, 3; Attendants, 4. Total, 76. Topographical Bureau: Laborers, 5; Driver, 1. Total, 6.

DOUGLAS MATHEWSON, President.

Department of Parks.

Abstract of proceedings of Park Board for week ending February 7, 1914:

Stated meeting, Thursday, February 5. Present—Commissioners Ward (President), Higgins, Ingersoll, Eliot.

Sealed bids were received for the following:

Borough of The Bronx: 1. For furnishing and delivering timber. 2. For furnishing and delivering forage. 3. For furnishing and delivering Painters' supplies. 4. For furnishing and delivering hardware.

Requisitions for the purchase of blue prints and lithographs for the office of the Landscape Architect, at an estimated cost of \$20; also for the purchase of magazines, etc., for the office of the Landscape Architect at an estimated cost of

sales of CITY RECORD, \$139.26; interest on daily balances, \$1.89; total, \$327.15.

Requisitions drawn on Comptroller: Contracts, \$13,288.82; open market orders, \$39,567.31; miscellaneous \$37.10; pay rolls,

BOARD OF WATER SUPPLY. The services of Edward A. Leen, Clerk, were dispensed with, to take effect at the close of business February 10, 1914.

DEPARTMENT OF PARKS.

Manhattan and Richmond.

Employed for 15 Days—February 3, 1914, Mathilde Hogg, Attendant, 226 W. 111th st., \$50 per month; February 6, 1914, Mary Hooper, Attendant, 418 W. 50th st., \$50 per month.

Promoted from Cleaner to Attendant at \$50 Per Month, February 6, 1914—Bridget McNamara, Annie Healy, Sarah Fink, Minnie Crowley, Mary Kilday, Anna J. Quinn, Kate E. Lyons, Annie Mulrooney, Kate J. Walsh, Mary I. McCauley, Nellie Costello.

Appointed Climber and Pruner for Six Months, February 13, 1914, at \$2.50 Per Day—Isidor Faeder, 1633 Lexington ave.; Daniel T. Daly, 1874 3d ave.; Joseph H. Barrett, 222 E. 89th st.; Frank Purcell, 500 W. 34th st.; Philip J. Waters, 509 E. 6th st.

Change of Title—Title of John Doran, 105 E. 84th st., changed from Driver at \$2.75 per day to Laborer at \$2.50 per day; to take effect February 14, 1914; title of Edward S. Leonard, St. Agnes ave., Baychester, changed from Driver at \$2.50 per day to Laborer at \$2.50 per day.

Reassigned, February 6, 1914—Thomas F. Brady, Laborer, 1791 Amsterdam ave.; employed for five days, February 6, 1914; Patrick Duggan, Painter, 207 E. 45th st., \$4 per day.

Retired with Pension, to Take Effect March 1, 1914—Henry Wilson, Foreman, Elmsford, Westchester County; James Conway, Keeper of Menagerie, Sheepfold, Central Park.

Resigned, February 1, 1914—Israel A. Shapiro, Clerk, 1 W. 118th st.

Department of Parks, Bronx.

Title of Michael Kehoe, 230 E. 144th st., has been changed from Climber and Pruner to Laborer, to take effect February 14.

Appointments—Edna A. Eckhoff, 421 Marion st., Brooklyn, Stenographer and Typewriter, at \$600 per annum, taking effect February 4, 1914; Mary M. Mullen

735 2d ave., Manhattan, Stenographer and Typewriter, at \$3 per day, taking effect February 9, 1914; Margaret Hanley, 2173 5th ave., Manhattan, Stenographer and Typewriter, at \$1,050 per annum, taking effect February 4, 1914; William M. Ross,

157 Main st., Astoria, Queens, Clerk, at \$600 per annum, taking effect February 4, 1914; Lenore Knapp, 357 E. 183d st., The Bronx, Clerk, at \$1,350 per annum, taking effect February 2, 1914; Mabel Grace Thomson, 430 45th st., Brooklyn, Stenographer and Typewriter, at \$2 per day, taking effect February 2, 1914; George Brown, 109 E. 130th st., Manhattan, Auto Truck Driver, at \$1,050 per annum, taking effect January 31, 1914.

Services Continued for an Additional

15 Days—Ralph M. Yedell, a Clerk, at the rate of \$900 per annum; Thomas J.

Francis, Clerk, at the rate of \$900 per annum; W. Howard Brown, Stenographer and Typewriter, at the rate of \$1,050 per annum; Joseph C. Phelan, Stenographer and Typewriter, at the rate of \$750 per annum; Alfred R. Walcott, Clerk, at the rate of \$900 per annum.

LAW DEPARTMENT.

Henrietta E. A. Otting, Telephone Switchboard Operator, at \$750 per annum, transferred to a similar position in the Department of Parks, Borough of Brooklyn, to take effect February 11, 1914. The salary of Mary L. Sullivan, Telephone Switchboard Operator, fixed at

\$750 per annum, to take effect February 11, 1914. Mary D. Clancy, 168 E. 108th st., appointed Telephone Switchboard Operator at \$600 per annum, to take effect February 16, 1914. Abraham K.

Hornstein, 29 Avenue C, appointed Process Server in the Bureau for the

Collection of Arrears of Personal Taxes, at \$1.15 for each summons or process

served, not to exceed \$100 in

BOARD OF ESTIMATE AND APPORTIONMENT.

Minutes of Meeting of Board of Estimate and Apportionment, Held in Room 16, City Hall, Friday, January 30, 1914.

The Board met in pursuance of an adjournment.

Present—John Purroy Mitchel, Mayor; William A. Prendergast, Comptroller; George McAneny, President, Board of Aldermen; Marcus M. Marks, President, Borough of Manhattan; Lewis H. Pounds, President, Borough of Brooklyn; Douglas Mathewson, President, Borough of The Bronx; Maurice E. Connolly, President, Borough of Queens; and Charles J. McCormack, President, Borough of Richmond.

The Mayor, Hon. John Purroy Mitchel, presided.

The Minutes of the meeting held January 16, 1914, were approved as printed in the CITY RECORD January 29, 1914.

PUBLIC IMPROVEMENT MATTERS.

Engineer's Financial Statement (Cal. No. 1).

(At the meeting of the Board on January 16, 1914, the Secretary presented the Chief Engineer's financial statement, D-1. On motion of the Comptroller the matter was laid over for one week; on January 23, 1914, it was laid over for one week.)

On motion of the Comptroller, the matter was again laid over for one week (February 6, 1914).

Engineer's Financial Statement No. D-2, Containing Report for Quarter Ending December 31, 1913 (Cal. No. 2).

The Secretary presented the following:

Table Showing Number and Estimated Cost of Improvements Awaiting Consideration on January 1, 1914, Excluding Those in Which Existing Conditions Prevent Immediate Authorization.

Borough.	Physical Improvements.						Opening Proceedings.						Miscellaneous Proceedings.									
	Surface Improvements.		Sewer Improvements.		Total.		Street Resolutions.		Park and Public Place Resolutions.		Land for Sewers.		Land for Bridges.		Land for Water Supply.		Map Changes.		Drainage Maps.		Miscellaneous Proceedings.	
	No.	Amount.	No.	Amount.	No.	Amount.	Street Resolutions.	Public Place Resolutions.	Land for Sewers.	Land for Bridges.	Land for Water Supply.	Map Changes.	Drainage Maps.	Miscellaneous Proceedings.	Total.							
Manhattan	77	\$567,000 00	31	\$101,500 00	108	\$668,500 00	12	..	..	..	..	..	..	..	4	4	
Brooklyn	77	\$567,000 00	31	\$101,500 00	108	\$668,500 00	12	..	..	..	..	..	..	11	3	6	140
The Bronx	16	314,800 00	11	473,200 00	27	788,000 00	11	..	1	..	..	..	..	30	17	5	91	
Queens	57	726,600 00	24	313,400 00	81	1,040,000 00	19	..	..	..	..	..	..	28	8	3	139
Richmond	2	16,300 00	2	16,300 00	1	8	1	1	13				
Entire City	150	\$1,608,400 00	68	\$904,400 00	218	\$2,512,800 00	43	..	1	..	..	..	..	77	33	15	387	

Table Showing Number and Estimated Cost of Improvements Awaiting Consideration on January 1, 1914, Which Cannot Be Immediately Authorized Owing to Conditions to Which the Attention of the Borough Officials Has Been Called.

Borough.	Physical Improvements.						Opening Proceedings.						Miscellaneous Proceedings.									
	Surface Improvements.		Sewer Improvements.		Total.		Street Resolutions.		Park and Public Place Resolutions.		Land for Sewers.		Land for Bridges.		Land for Water Supply.		Map Changes.		Drainage Maps.		Miscellaneous Proceedings.	
	No.	Amount.	No.	Amount.	No.	Amount.	Street Resolutions.	Public Place Resolutions.	Land for Sewers.	Land for Bridges.	Land for Water Supply.	Map Changes.	Drainage Maps.	Miscellaneous Proceedings.	Total.							
Manhattan	5	\$23,000 00	..	..	5	\$23,000 00	..	1	..	..	1	2	..	..	..	..	..	..	..	9
Brooklyn	80	746,000 00	20	\$188,600 00	100	\$934,600 00	27	1	2	2	..	6	3	1	..	142	..	..	..	..
The Bronx	44	1,254,600 00	16	557,900 00	60	1,812,500 00	14	1	..	1	..	10	4	5	..	95	..	..	..	..
Queens	84	1,668,700 00	65	1,803,200 00	149	3,471,900 00	45	..	..	..	..	30	12	1	..	237	..	..	..	..
Richmond	15	106,500 00	2	27,400 00	17	133,900 00	1	..	4	..	..	4	2	..	..	28	..	..	..	..
Entire City	228	\$3,798,800 00	103	\$2,577,100 00	331	\$6,375,900 00	87	3	6	3	1	52	21	7	..	511	..	..	..	..

A comparison of the value of all local improvements authorized during the fourth quarter of 1913, with the value of the assessment lists returned to the Board of Assessors, and with the collections made during the quarter credited to the Street Improvement Fund, as created on January 1, 1898, shows as follows:

Borough.	Value of Improvements Authorized	Value of Improvements Returned to the Board of Assessors.	Assessments Collected to the Credit of the Street Improvement Fund as Created on January 1, 1898.		
			Assessments Collected to the Credit of the Street Improvement Fund as Created on January 1, 1898.		
			Assessments Collected.	Interest.	Total.
Manhattan ...	\$12,600 00	\$90,846 80	\$71,893 85	\$17,191 25	\$89,085 10
Brooklyn ...	643,900 00	1,056,851 03	446,398 52	44,993 60	491,392 12
The Bronx ...	1,993,100 00	1,116,393 06	284,818 03	30,883 28	315,701 31
Queens ...	395,200 00	1,237,752 46	162,748 75	14,632 31	177,381 06
Richmond ...	1,200 00	33,885 31	41,830 61	4,149 16	45,979 77
Total	\$3,046,000 00	\$3,535,728 66	\$1,007,689 76	\$111,849 60	\$1,119,539 36

The Borough Presidents' quarterly reports indicate that during the three months ending December 31, 1913, contracts were made under authority of Local Board resolutions, without action by the Board of Estimate and Apportionment, pursuant to the provisions of section 435 of the Charter, of the following amounts:

Borough.	Number.	Amount.
Manhattan	15	\$5,447 23
The Bronx	7	2,051 95
Queens	2	2,045 89
Total	24	\$9,545 07

The following tables, showing the progress made up to December 31, 1913, in carrying out improvements, have been compiled partly from the records of the Board of Estimate and Apportionment, partly from data supplied by the Borough Presidents and partly from the results of an examination of the books of the Board of Assessors. The figures given for the estimated cost of work under contract, but not yet completed, are those reported by the Borough Presidents in conformity with the resolution adopted by the Board on February 25, 1910.

In the summary showing the value of improvements which have been delayed in completion more than a year beyond the contract time limit, it has been assumed that the calendar year consisted of 200 days.

Improvements Authorized Subsequent to January 1, 1902, Which Were Reported to the Board of Assessors Prior to December 31, 1913.

Borough.	Prior to September 30, 1913.	September 30, 1913, to December 31, 1913.	Total.
Manhattan	\$5,361,148 44	\$90,846 80	\$5,451,995 24
Brooklyn	20,213,738 74	1,956,851 03	21,270,589 77

January 27, 1914.
Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—I beg to submit the following statement showing the progress made in completing physical improvements during the fourth quarter of 1913.

A comparison of the value of the local improvements authorized during 1913 with the value of the assessment lists returned to the Board of Assessors or reported to the Comptroller and with the collections made during the year credited to the Street Improvement

Public Hearing on the Proposed Area of Assessment in the Matter of Amending the Proceeding for Acquiring Title to New Utrecht Avenue from 38th Street to 81st Street; to 36th Street from 5th Avenue to 7th Avenue; to 37th Street from 7th Avenue to Fort Hamilton Avenue; to 7th Avenue from 36th Street to 37th Street; to 8th Avenue from 37th Street to 39th Street; to 10th Avenue from 37th Street to 38th Street; Together With the Public Place Bounded by 42d Street, 10th Avenue and New Utrecht Avenue; the Public Place Bounded by Fort Hamilton Avenue, New Utrecht Avenue and 45th Street; and the Public Place Bounded by 46th Street, 11th Avenue and New Utrecht Avenue, Borough of Brooklyn (Cal. No. 8).

The Secretary presented affidavits of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on December 31, 1913.

After hearing Mr. Alfred F. Wilson, who appeared in opposition to the proposed area of assessment and no one else appearing, the hearing was closed.

The following resolution was offered:

Resolved, by the Board of Estimate and Apportionment of The City of New York, That the proceeding instituted by said Board on December 17, 1909, for acquiring title to New Utrecht avenue from 38th street to 81st street; 36th street from 5th avenue to 7th avenue; 37th street from 7th avenue to Fort Hamilton avenue; 7th avenue from 36th street to 37th street; 8th avenue from 37th street to 39th street; 10th avenue from 37th street to 38th street; and to the Public Place bounded by 42d street, 10th avenue and New Utrecht avenue; Public Place bounded by Fort Hamilton avenue, New Utrecht avenue and 45th street; and Public Place bounded by 46th street, 11th avenue and New Utrecht avenue, in the Borough of Brooklyn, which proceeding was amended February 9, 1911, so as to relate to the new lines of New Utrecht avenue as shown on the map adopted by said Board December 15, 1910, and approved by the Mayor December 28, 1910; and also by excluding the two blocks of 37th street, between 9th avenue and Fort Hamilton avenue, be and the same hereby is further amended so as to conform to a map or plan adopted by the said Board on June 26, 1913, and approved by the Mayor on July 2, 1913, under which New Utrecht avenue is discontinued from 38th street to 9th avenue, and widened on its westerly side from 9th avenue to 39th street; the proceeding as amended providing for the acquisition of title to New Utrecht avenue from 9th avenue to 81st street; 36th street from 5th avenue to 7th avenue; 37th street from 7th avenue to 9th avenue; 7th avenue from 36th street to 37th street; 8th avenue from 37th street to 39th street; 10th avenue from 37th street to 38th street; and to the Public Place bounded by 42d street, 10th avenue and New Utrecht avenue; Public Place bounded by Fort Hamilton avenue, New Utrecht avenue and 45th street; and Public Place bounded by 46th street, 11th avenue and New Utrecht avenue; as the foregoing streets are now laid out upon the map or plan of The City of New York.

Resolved, That the Corporation Counsel be and he hereby is requested to take the necessary steps to have this amendment carried into effect; and

Whereas, Pursuant to a resolution adopted by the Board on December 31, 1913, due notice has been given in the City Record and in the corporation newspapers that the Board would consider a proposed area of assessment for the aforesaid proceeding as amended; and

Whereas, On the 30th day of January, 1914, a public hearing was given to all persons interested in such proposed area of assessment who appeared, and such proposed area of assessment was duly considered by this Board;

Resolved, That the area of assessment for benefit in this amended proceeding be and is hereby fixed and determined to be as follows:

Beginning at a point on the prolongation of a line midway between 7th avenue and 8th avenue, where it is intersected by the prolongation of a line distant 100 feet northeasterly from and parallel with the northeasterly line of 36th street, and running thence southwesterly along the said line midway between 7th avenue and 8th avenue to a point distant 100 feet northeasterly from the northeasterly line of 37th street; thence southeastwardly and parallel with 37th street to the intersection with the line bisecting the angle formed by the intersection of the prolongation of the southeasterly line of 10th avenue with the northwesterly line of Fort Hamilton avenue; thence southwesterly along the said bisecting line to the intersection with a line distant 700 feet easterly from and parallel with the easterly line of New Utrecht avenue; thence southwesterly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 43d street and 44th street; thence southeastwardly along the said line midway between 43d street and 44th street to a point distant 100 feet southeasterly from and parallel with the southeasterly line of 12th avenue; thence southwesterly and parallel with 12th avenue to the intersection with a line distant 700 feet easterly from and parallel with the easterly line of New Utrecht avenue; thence southwesterly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 47th street and 48th street; thence southeastwardly along the said line midway between 47th street and 48th street to a point distant 100 feet southeasterly from the southeasterly line of 13th avenue; thence southwesterly and parallel with 13th avenue to the intersection with a line distant 700 feet easterly from and parallel with the easterly line of New Utrecht avenue; thence southwesterly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 52d street and 53d street; thence southeastwardly along the said line midway between 52d street and 53d street to a point distant 100 feet southeasterly from the southeasterly line of 14th avenue; thence southwesterly and parallel with 14th avenue to the intersection with a line distant 700 feet easterly from and parallel with the easterly line of New Utrecht avenue; thence southwesterly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 71st street and 72d street; thence southeastwardly along the said line midway between 71st street and 72d street to a point distant 100 feet southeasterly from the southeasterly line of 17th avenue; thence southwesterly and parallel with 17th avenue to the intersection with a line distant 700 feet easterly from and parallel with the easterly line of New Utrecht avenue; thence southwesterly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 78th street and 79th street; thence southeastwardly along the said line midway between 78th street and 79th street to a point distant 100 feet southeasterly from the southeasterly line of 18th avenue; thence southwesterly and always distant 100 feet southeasterly from and parallel with 18th avenue to the intersection with a line midway between 82d street and 83d street; thence northwesterly along the said line midway between 82d street and 83d street and along the prolongation of the said line to the intersection with the prolongation of a line distant 700 feet westerly from and parallel with the westerly line of New Utrecht avenue, as this street is laid out north of 81st street; thence northwardly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 80th street and 81st street; thence northwesterly along the said line midway between 80th street and 81st street to a point distant 100 feet northwesterly from the northwesterly line of 16th avenue; thence northeastwardly and parallel with 16th avenue to the intersection with a line distant 700 feet westerly from and parallel with the westerly line of New Utrecht avenue; thence northwardly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 74th street and 75th street; thence northwesterly along the said line midway between 74th street and 75th street to a point distant 100 feet northwesterly from the northwesterly line of 15th avenue; thence northeastwardly and parallel with 15th avenue to the intersection with a line distant 700 feet westerly from and parallel with the westerly line of New Utrecht avenue; thence northwardly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 68th street and Bay Ridge avenue; thence northwesterly along the said

line midway between 68th street and Bay Ridge avenue to a point distant 100 feet northwesterly from the northwesterly line of 14th avenue; thence northeastwardly and parallel with 14th avenue to the intersection with a line distant 700 feet westerly from and parallel with the westerly line of New Utrecht avenue; thence northwardly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 62d street and 63d street; thence northwesterly along the said line midway between 62d street and 63d street to a point distant 100 feet northwesterly from the northwesterly line of 13th avenue; thence northeastwardly and parallel with 13th avenue to the intersection with a line distant 700 feet westerly from and parallel with the westerly line of New Utrecht avenue; thence northwardly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 56th street and 57th street; thence northwesterly along the said line midway between 56th street and 57th street to a point distant 100 feet northwesterly from the northwesterly line of 12th avenue; thence northeastwardly and parallel with 12th avenue to the intersection with a line distant 700 feet westerly from and parallel with the westerly line of New Utrecht avenue; thence northwardly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 51st street and 52d street; thence northwesterly along the said line midway between 51st street and 52d street to a point distant 100 feet northwesterly from the northwesterly line of 11th avenue; thence northeastwardly and parallel with 11th avenue to the intersection with a line distant 700 feet westerly from and parallel with the westerly line of New Utrecht avenue; thence northwardly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 46th street and 47th street; thence northwesterly along the said line midway between 46th street and 47th street to a point distant 100 feet northwesterly from the northwesterly line of 10th avenue; thence northeastwardly and parallel with 10th avenue to the intersection with a line distant 700 feet westerly from and parallel with the westerly line of New Utrecht avenue; thence northwardly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 43d street and 44th street; thence northwesterly along the said line midway between 43d street and 44th street to a point distant 100 feet northwesterly from the northwesterly line of 9th avenue; thence northeastwardly and parallel with 9th avenue to the intersection with a line distant 700 feet westerly from and parallel with the westerly line of New Utrecht avenue; thence northwardly along the said line parallel with New Utrecht avenue to the intersection with a line midway between 37th street and 38th street; thence northwesterly along the said line midway between 37th street and 38th street to a point distant 100 feet northwesterly from the northwesterly line of 5th avenue; thence northeastwardly and parallel with 5th avenue to the intersection with a line parallel with 36th street and passing through the point of beginning; thence southeastwardly along the said line parallel with 36th street and 37th street to the point or place of beginning.

(Whenever, in the above described area the position of a point or a line is defined as being a certain distance from a given line it is intended that the said distance shall be measured along a course at right angles to the latter line.)

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Public Hearing on a Proposed Reapportionment of the Cost of Acquiring Title to Church Avenue, Between 36th Street and Ocean Parkway, Borough of Brooklyn (Cal. No. 9).

(At the meeting of the Board on December 31, 1913, there was presented a communication signed by the President of the Borough of Brooklyn and the Acting President of the Board of Aldermen, advising that the matter had been called to their attention. As a result of their investigation into the petitions for relief, they recommended that, in addition to the one-third of the cost of the buildings placed upon the City by the Commissioner of Assessment, 25 per cent. of the total assessment be charged against the Borough of Brooklyn and the remainder against the local area heretofore fixed. January 30, 1914, was fixed as the date for a public hearing on his proposal. See Cal. No. 27).

The Secretary presented affidavits of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on December 31, 1913.

Messrs. John R. McDonald and H. G. Andrews appeared in favor of the proposed reapportionment of the cost.

On motion of the Comptroller the hearing was continued for two weeks (February 13, 1914).

Public Hearing on the Proposed Area of Assessment in the Matter of Acquiring Title to East 16th Street, from Beverly Road to the Brighton Beach Railroad, Borough of Brooklyn (Cal. No. 10).

(At the meeting of the Board on January 16, 1914, the hearing in this matter was continued to January 30, 1914.)

The Secretary presented affidavits of publication showing that the matter had been duly advertised.

On motion of the Comptroller the hearing was again continued for two weeks (February 13, 1914).

Public Hearing on the Proposed Area of Assessment in the Matter of Acquiring Title to 50th Street, from 17th Avenue to West Street, Excluding the Right of Way of the Long Island Railroad, Borough of Brooklyn (Cal. No. 11).

(At the meeting of the Board on January 16, 1914, the hearing in this matter was continued to January 30, 1914.)

The Secretary presented affidavits of publication showing that the matter had been duly advertised.

Mr. L. A. Brown appeared and requested an extension of the assessment area.

On motion of the Comptroller the hearing was again continued for two weeks (February 13, 1914).

Public Hearing on the Proposed Area of Assessment in the Matter of Amending the Proceeding for Acquiring Title to Adams Street, from Berrian Street to the New York, New Haven and Hartford Railroad; to Melville Street, from Morris Park Avenue to the New York, New Haven and Hartford Railroad, and to Van Buren Street, from Morris Park Avenue to the New York, New Haven and Hartford Railroad, Borough of The Bronx (Cal. No. 12).

The Secretary presented affidavit of publication showing that the matter had been duly advertised in accordance with a resolution adopted by the Board on December 31, 1913.

No one appearing in favor of or in opposition to the proposed area of assessment, the hearing was closed.

The following resolution was offered:

Resolved, by the Board of Estimate and Apportionment of The City of New York. That the proceeding authorized by the said Board under resolutions adopted on May 21, 1909, and amended on June 13, 1912, and on October 17, 1912, for acquiring title to Adams street, Melville street and Van Buren street, Borough of The Bronx, City of New York, be and the same hereby is further amended so as to relate to the aforesaid streets between the following limits as the same are now shown upon a map or plan of The City of New York: Adams street, Melville street and Van Buren street, from Morris Park avenue to the northerly line of the right of way of the New York, New Haven and Hartford Railroad;

Resolved, That the Corporation Counsel be and he hereby is requested to take the necessary steps to have this amendment carried into effect; and

Whereas, Pursuant to a resolution adopted by the Board on December 31, 1913, due notice has been given in the City Record that the Board would consider the proposed amendment and a change in the district of assessment heretofore fixed in the proceeding so as to include a portion of the right of way of the New York, New Haven and Hartford Railroad; and

Whereas, On the 30th day of January, 1914, a public hearing was given to all

persons interested in such proposed action who appeared, and such proposed action was duly considered by this Board; be it

Resolved, That the following is the area of assessment for benefit in the foregoing proceeding as now amended:

Bounded on the northwest by a line always distant 100 feet northwesterly from and parallel with the northwesterly line of Morris Park avenue, the said distance being measured at right angles to Morris Park avenue; on the northeast by a line midway between Meville street and Taylor street, and by the prolongation of the said line; on the south by the southerly property line of the New York, New Haven and Hartford Railroad; and on the southwest by a line always distant 100 feet southwesterly from and parallel with the southwesterly line of Adams street and its prolongation, the said distance being measured at right angles to Adams street.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Public Hearing on the Proposed Area of Assessment in the Matter of Acquiring Title to the Unnamed Street Extending from Sedgwick Avenue to the Intersection of Fordham Road with Hampden Place, Borough of The Bronx (Cal. No. 13).

(At the meeting of the Board on January 16, 1914, the hearing in this matter was continued to January 30, 1914.)

The Secretary presented affidavit of publication showing that the matter had been duly advertised.

On motion of the Comptroller the hearing was continued for three weeks (February 20, 1914).

Public Hearing on the Proposed Area of Assessment in the Matter of Acquiring Title to the Property Required for the Widening of East 161st Street, on Its Southerly Side, Between Mott Avenue and a Point About 100 feet East of Sheridan Avenue, Borough of The Bronx (Cal. No. 14).

(At the meeting of the Board on January 16, 1914, the hearing in this matter was continued to January 30, 1914.)

The Secretary presented affidavit of publication showing that the matter had been duly advertised.

After hearing Mr. H. G. Schmieder, who appeared and addressed the Board, and no one else appearing, the hearing was closed.

On motion, the matter was referred to the Committee on Assessments, when appointed.

Public Hearing on the Proposed Area of Assessment in the Matter of Acquiring Title to Corinth Avenue, from Grand Street to Caldwell Avenue; to Carter Place, from Grand Street to Caldwell Avenue; to Division Avenue, from Calamus Avenue to Caldwell Avenue, and to Samuelson Street, from Corinth Avenue to Division Avenue, Borough of Queens (Cal. No. 15).

(At the meeting of the Board on January 16, 1914, the hearing in this matter was continued to January 30, 1914.)

The Secretary presented affidavit of publication showing that the matter had been duly advertised.

No one appearing in favor of or in opposition to the proposed area of assessment the hearing was closed.

On motion of the President of the Borough of Queens, the matter was referred back to the Local Board of the Newtown District.

Public Hearing on the Proposed Area of Assessment in the Matter of Acquiring Title to 43d Street, from Astoria Avenue to Jackson Avenue, and to 44th Street, from Astoria Avenue to Roosevelt Avenue, Borough of Queens (Cal. No. 16).

(At the meeting of the Board on January 16, 1914, the hearing in this matter was continued to January 30, 1914.)

The Secretary presented affidavit of publication showing that the matter had been duly advertised.

On motion of the Comptroller the hearing was again continued for two weeks (February 13, 1914).

Public Hearing on the Proposed Area of Assessment in the Matter of Amending the Proceeding for Acquiring Title to Caspian Street, from Andrews Street to Metropolitan Avenue; to Zeidler Street, from Andrews Street to Metropolitan Avenue, and to King Place, from Caspian Street to Metropolitan Avenue, Borough of Queens (Cal. No. 17).

(At the meeting of the Board on January 16, 1914, the hearing in this matter was continued to January 30, 1914.)

The Secretary presented affidavit of publication showing that the matter had been duly advertised.

On motion of the Comptroller the hearing was again continued for two weeks (February 13, 1914).

Changing the Line and Grade of Riverside Drive, Between a Point About 500 Feet South of West 181st Street and a Point About 775 Feet North of West 181st Street; Laying Out a Service Street on the Easterly Side of Riverside Drive, Between West 181st Street and a Point About 475 Feet Northerly Therefrom; Changing the Line and Grade of the Service Street Adjoining Riverside Drive on the East Between West 181st Street and a Point About 500 Feet Southerly Therefrom; changing the Line and Grade of West 181st Street, Between Riverside Drive and Northern Avenue; Changing the Grade of Haven Avenue, Between West 181st Street and West 180th Street, and Changing the Grade of Northern Avenue, at and Adjoining its Intersection with West 181st Street, Borough of Manhattan (Cal. No. 18).

The Secretary presented the following resolution of the Local Board of the Washington Heights District, Borough of Manhattan, and report of the Chief Engineer:

In the Local Board of the Washington Heights District.

Whereas, A petition for a local improvement described below has been received by the President of the Borough of Manhattan, and,

Whereas, He has appointed a time for a meeting of this Local Board not more than fifteen days after the receipt by him of the said petition, at which meeting the said petition would be submitted by him to the said Local Board, and he has caused a notice to be published in the City Record that said petition has been presented to him and is on file in his office for inspection, and of the time when and the place where there would be a meeting of this Local Board at which the said petition would be submitted by him to the said Board, which time was not less than ten days after the publication of this notice, and,

Whereas, The said petition was duly submitted thereafter to the said Local Board, which did duly consider the same and give a full hearing thereon; now, therefore, it is

Resolved, By the Local Board of the Washington Heights District, pursuant to titles 2 and 3 of chapter 10 of the Greater New York Charter, that the said petition be and the same hereby is granted; and it is hereby

Resolved, That this Board does hereby recommend to the Board of Estimate and Apportionment an alteration in the map or plan of The City of New York by laying out thereon a change of the lines and grades of Riverside drive from a point about 133 feet south of West 181st street to a point about 790 feet north of 181st street; a change of grade of 181st street from Riverside Drive to Northern avenue, of Haven avenue from West 180th to West 181st streets and of Northern avenue from a point about 100 feet south of West 181st street to point about 84 feet north of West 181st street, all as shown on the accompanying diagram, and it is hereby further

Resolved, That a copy of this resolution be transmitted forthwith to the Board of Estimate and Apportionment for its approval.

Adopted by the Local Board of the Washington Heights District on the 16th day of December, 1913.

Attest: LOUIS GRAVES, Secretary.

Approved this 29th day of December, 1913.

GEORGE McANENY, President of the Borough of Manhattan.

Report No. 13546.

January 20, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a resolution adopted on December 16, 1913, by the Local Board of the Washington Heights District, Borough of Manhattan, recommending a change in the line and grade of Riverside drive between a point about 500 feet south of West 181st street and a point about 825 feet north of West 181st street; the laying out of a service street on the easterly side of Riverside drive, be-

tween West 181st street and a point about 475 feet northerly therefrom; a change in the line and grade of the service street adjoining Riverside drive on the east between West 181st street and a point about 500 feet southerly therefrom; a change in the line and grade of West 181st street, between Riverside drive and Northern avenue; a change in the grade of Haven avenue, between West 181st street and West 180th street; and a change in the grade of Northern avenue at and adjoining its intersection with West 181st street.

The principal object sought under this change appears to be the flattening of the grade of West 181st street, between Northern avenue and Riverside drive, and the provision of a service street for the property abutting on Riverside drive in the section immediately north of West 181st street.

Under the plans heretofore approved a service street has been laid out, acquired, and improved on the easterly side of Riverside drive in the section south of West 181st street, connecting with Riverside drive at West 177th street and with West 181st street at Haven avenue. This street has a width of 40 feet and a grade at the corner of West 181st street and Riverside drive about 26 feet above that established for these two streets at their intersection.

West 181st street has been improved with a grade at the rate of 10.8 per cent. It forms one of the very few connections between Riverside drive and the adjoining area on the east, but owing to the steepness of its grade it is unsuited for use as a traffic artery. It is now proposed to raise its grade at Riverside drive about 26 feet, bringing it to the level of the service street adjoining it on the south and reducing the gradient between Northern avenue and the drive to a rate of a little less than 7 per cent, and to convert the service street already laid out into an outlet for traffic to the south, while traffic to the north will be served by the service street which is to be laid out under the amending plan. The latter street is to have a width of 40 feet, this coinciding with that fixed for the one extending southwardly, and a grade at the rate of about 4.1 per cent, or a little steeper than that provided for the southerly outlet.

A large apartment house, having an assessed valuation of \$140,000, has been erected at the northwesterly corner of Northern avenue and West 181st street, where the grade is to be raised from about one foot to about eight feet, with the effect of largely depriving the basement floor of the light and access privileges now enjoyed. It is believed, however, that the reconstruction work required to adapt this building to the proposed changes will not be of a serious character. A building has also been erected at the southeasterly corner of Northern avenue and West 181st street, where the grade change is of a less radical character; it is believed that the grade change here planned can be accomplished without injury to the building.

The lines fixed for the service street north of West 181st street trespass largely upon the lands heretofore acquired for the Riverside drive, and the carrying out of the plan will necessitate the acquisition of title to an area of about 3,300 square feet, while about 18,800 square feet will be taken from the drive. It is proposed to offset the latter loss by correspondingly changing the lines of Riverside drive on the westerly side and to include within the street lines land which has been acquired for the Ft. Washington Park, the strip to be devoted to this use having a maximum width of about 40 feet; the change will make it practicable to secure an easier curve for the drive than was provided under the original plan. It appears to have been assumed by the petitioners for this change that when the service street is improved it will be separated from the space assigned to the Riverside drive roadway by a sloping embankment, but no provision for this treatment is made upon the plan owing to the fact that it could not be carried out until after jurisdiction over the lands to be taken from the park has been assigned to the Borough President, and the way cleared for the necessary physical changes in this street.

The absorption within West 181st street of the service street heretofore acquired on its southerly side between Riverside drive and Haven avenue will here result in giving this street a width of 120 feet, while its continuation to the east has a width of only 80 feet, and the outlets into Riverside drive a width of only 40 feet. The treatment appears to be along lines very similar to those recommended by Messrs. Brunner and Oimsted who, in a report to the Borough President, bearing date of June, 1913, recommended that the surplusage in street width be used in part for the construction of a tunnel for pedestrian use which would provide a direct connection between West 181st street and the drive. The plan submitted by them also indicated lines for the new service street north of West 181st street, differing somewhat from those shown on the map now under consideration, and necessitated the acquisition of more land in private ownership, but afforded a less direct connection into Riverside drive. In their report it was also recommended that provision be made for a sidewalk on the westerly side of the service street, while the plan now under consideration provides a walk only on the easterly side as would seem to be necessary in order that the needs of the abutting owners may properly be served.

At the meeting of July 10, 1913, the treatment of the Riverside drive problem was referred to a Select Committee for consideration, and, while it is believed by your Engineer that the plan now submitted is adapted to a suitable treatment for Riverside drive and can be acted upon in advance of the final determination concerning the plan for this street as a whole, it would seem advisable to secure an expression of opinion from the Committee before action is taken.

I would recommend that a copy of the plan be sent to the Select Committee and that a date be fixed for a public hearing, with the understanding that the changes proposed will be approved providing that the Select Committee concurs in the view herein expressed as to its merits.

In case the change is approved, I would also recommend the adoption of resolutions (1) fixing the sidewalk width of the service street on the easterly side of Riverside drive, between West 177th street and a point about 475 feet north of West 181st street at 12 feet, the remaining space to be assigned to roadway use; and (2) fixing the roadway width of West 181st street, between the service street and Haven avenue at 84 feet, the roadway to be centrally located.

I am informally advised that the property owners in the vicinity are desirous of improving the streets affected by this plan at once. In order that the construction of a retaining wall along the westerly line of the service street may be avoided if it is not to be made a permanent feature of the improvement, and that the cost of reregulating and regrading Riverside drive may be treated as a local improvement toward the cost of which the property owners in the vicinity might contribute, I would suggest that the attention of the Borough President be called to the desirability of (1) promptly arranging for any grade changes required in the drive in this vicinity; (2) of determining upon the treatment of all of the space included within the street lines; and (3) of securing the necessary transfer of jurisdiction through action on the part of the Commissioners of the Sinking Fund.

Respectfully, NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the lines and grades of Riverside Drive between a point about 500 feet south of the south line of West 181st street as heretofore laid out and a point about 775 feet north of the north line of West 181st street; changing the lines and grades of the service street between the south line of West 181st street, as heretofore laid out, and a point about 500 feet south thereof; establishing the lines and grades of the service street between the south line of West 181st street as heretofore laid out and a point about 475 feet north of the north line of West 181st street; changing the lines and grades of West 181st street between Haven avenue and Riverside drive; changing the grades of West 181st street between Northern avenue and Haven avenue; changing the grades of Haven avenue between West 180th street and West 181st street; changing the grades of Northern avenue at and immediately adjoining its intersection with West 181st street; and changing the grades of West 180th street at its junction with Haven avenue in the Borough of Manhattan, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated December 16, 1913.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 27th day of February, 1914, at 10:30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 27th day of February, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Alder-

men and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Changing the Grade of Ocean Avenue, Between Avenue Q and Avenue R, and Changing the Grade of the Street System Within the Territory Bounded by Albany Avenue, East New York Avenue, Schenectady Avenue and Midwood Street, Borough of Brooklyn (Cal. No. 19).

The Secretary presented the following communication from the Acting Commissioner of Public Works of the Borough of Brooklyn, and report of the Chief Engineer:

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, December 26, 1913.

Mr. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment:

Dear Sir—On November 20, 1913, the Board of Estimate and Apportionment gave preliminary authorization for the regulating, grading, etc., of Maple street from Albany avenue to Troy avenue.

In preparing the plan and profile for this improvement, by our Topographical Bureau, it is found advisable to raise the grade at the intersection of Maple street and Troy avenue from 29.8 feet to 33.1 feet. There are no improvements along Maple street from Albany avenue to Troy avenue, and the physical surface of this portion of Maple street is considerably higher than the present legal grade. By making the change of grade, as proposed, it will avoid approximately 1,000 yards of fill.

From Troy avenue to Schenectady avenue there are several old buildings which are at present below the legal grade and will be greatly damaged when this block of Maple street is improved. By raising the grade at the intersection of Troy avenue and Maple street 3.3 feet will result in very little additional damage to the buildings. On October 24, 1912, the grade at the intersection of East New York avenue and Troy avenue was changed from 34.25 feet to 41.0 feet. By this change of grade a rate of 5 per cent. was placed on Troy avenue, but the proposed grade will reduce this to about 3½ per cent. A change of grade on Ocean avenue from Avenue Q to Avenue R is necessary, as there is only a drop of six inches in this block of over 800 feet. The proposed summit of 18.08 feet, which is 357 feet south of Avenue Q, will agree with the physical improvements on the west side of the street, and will necessitate removing the sidewalk on the east side.

In order that there may be no delay in improving Maple street and Ocean avenue, I would respectfully recommend the adoption of the map as early as possible, the same entitled: "Map showing a change of grades in Ocean avenue from Avenue Q to R; Maple street from Albany avenue to point 330 feet east of Troy avenue, and in Troy avenue from East New York avenue to Midwood street."

Yours very truly, GEO. W. TILLSON, Acting Commissioner of Public Works.

Report No. 13522. January 17, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Acting Commissioner of Public Works, Borough of Brooklyn, bearing date of December 26, 1913, requesting the approval of a map showing a change proposed in the grade of Ocean avenue from Avenue Q to Avenue R, and also a change in the grade of the street system within the territory bounded by Albany avenue, East New York avenue, Schenectady avenue and Midwood street.

These changes comprise the insertion of a summit near the middle of the block of Ocean avenue, described in the communication, and the raising of the grade of Troy avenue at its intersection with Maple street 3.3 feet.

The former change is required in order to make adequate provision for the removal of surface drainage, the grade heretofore established being almost level. Information is presented to show that the sidewalk which has been laid on the westerly side of the street conforms with the elevations now proposed, but that its legalization will necessitate the relaying of the sidewalk on the easterly side. It is believed that no damage will accrue to buildings.

From an inspection of the ground and from information submitted by the Commissioner it would appear that the Troy avenue grade change is desired for the purpose of securing a flatter gradient in the block between Maple street and East New York avenue, where it is proposed to substitute a rate of about 3.5 per cent. instead of 5 per cent., as provided under the plan heretofore approved. It is understood that the buildings which have been erected in the adjoining block of Maple street on the west would not be damaged by reason of the change, and that those erected in the easterly block are so much below the grade as heretofore established that the change will not involve serious additional damage.

I see no reason why the map should not be approved, and would recommend such action after a public hearing.

Respectfully, NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provision of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the grades of the street system within the territory bounded by Albany avenue, East New York avenue, Schenectady avenue and Midwood street; and changing the grades of Ocean avenue between Avenue Q and Avenue R in the Borough of Brooklyn, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the Commissioner of Public Works of the Borough, and dated December 26, 1913.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 27th day of February, 1914, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record and the corporation newspaper for ten days continuously, Sundays and legal holidays excepted, prior to the 27th day of February, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Changing the Grades in East 149th Street, Between 3d Avenue and Harlem River; in East 150th Street, Between Park Avenue and Melrose Avenue, and in the Intersecting Streets Affected Thereby, Borough of The Bronx (Cal. No. 20).

(At the meeting of the Board on December 18, 1913, this matter was laid over for two weeks; on December 31, 1913, it was laid over for four weeks.)

On motion of the President of the Borough of The Bronx the matter was laid over for three weeks (February 20, 1914) and referred to the Chief Engineer of the Board for report in the meantime.

Changing the Lines of Rhinelander Avenue Between Williamsbridge Road and Bear Swamp Road, and Changing the Grade of the Street System Within the Territory Bounded by Matthews Avenue, Neill Avenue, Fowler Avenue and Morris Park Avenue, Borough of The Bronx (Cal. No. 21).

The Secretary presented the following communication from the Commissioner of Public Works of the Borough of The Bronx, and report of the Chief Engineer:

City of New York, President of the Borough of The Bronx, Office of the Commissioner of Public Works, October 7, 1913.

Mr. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, 277 Broadway, City:

Dear Sir—I transmit herewith for consideration and adoption by your Board a map showing the widening of Rhinelander avenue from Bear Swamp road to Williamsbridge road, and the adjustment of grades necessitated thereby; and the change of grades in the territory bounded by Morris Park avenue, Matthews avenue, Neil avenue and Fowler avenue (amendments to sections 37, 40 and 41), dated August 26, 1913.

In this map is incorporated two proposed map changes, one for the widening of Rhinelander avenue between Bear Swamp road and Williamsbridge road, and the other for the change of grades in the territory bounded by Morris Park avenue, Matthews avenue, Neill avenue and Fowler avenue, as suggested by Mr. A. S. Tuttle of your Board.

The map forwarded herewith has been given the same date as the one forwarded in connection with the proposed change in Rhinelander avenue.

Respectfully, THOMAS W. WHITTLE, Commissioner.

Report No. 13557.

January 24, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Commissioner of Public Works, Borough of The Bronx, bearing date of October 7, 1913, requesting the approval of a map showing a change in the lines of Rhinelander avenue, between Bear Swamp road and Williamsbridge road, and in the grade of the street system within the territory bounded by Matthews avenue, Neill avenue, Fowler avenue and Morris Park avenue.

In reporting upon the Final Map of section 41, which was approved by the Board on June 29, 1911, attention was called to the desirability of increasing the width of Rhinelander avenue, between Bear Swamp road and Williamsbridge road, from 60 feet to 80 feet, in order to make it coincide with that provided for adjoining sections, unless some assurance could be obtained concerning the enforcement of restrictions here originally proposed by property owners under which they were to be obligated to keep buildings well back from the street line. The street is in use through portions of its length, but the abutting property is unimproved. The change now proposed will have the effect of securing a uniform width of 80 feet for the street and one suited to its position as a traffic artery.

The grade changes indicated on the plan more particularly relate to Muliner avenue, from Morris Park avenue to Neill avenue, to Bear Swamp road, from Morris Park avenue to Matthews avenue, and to Rhinelander avenue, from Fowler avenue to Matthews avenue, where it is proposed to lower the grade heretofore established a maximum of 5 feet, thereby making the elevation more consistent with the grades to which these streets have been improved and to which buildings have been erected. From such information as is available, it would appear that the damage to buildings which would have resulted under the plan heretofore adopted will be materially decreased through the carrying out of the plan now submitted, although in several instances the street grade will be above that of the buildings but much less than under the original plan.

In my judgment the changes are proper ones and the approval of the plan is recommended after a public hearing. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by widening Rhinelander avenue from Bear Swamp road to Williamsbridge road, and changing the grades of the street system within the territory bounded by Matthews avenue, Neill avenue, Fowler avenue and Morris Park avenue in the Borough of The Bronx, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the Secretary of the Board of Estimate and Apportionment, and dated August 26, 1913.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 27th day of February, 1914, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 27th day of February, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Changing the Lines and Grades of Sedgwick Avenue, from Depot Place to a Point About 530 Feet North of Commerce Avenue, and of Undercliff Avenue, from Sedgwick Avenue to a Point About 140 Feet North of Commerce Avenue; Changing the Grade of Commerce Avenue, from Sedgwick Avenue to the First Angle Point Westerly Therefrom, and of West 169th Street, from Lind Avenue to Sedgwick Avenue, Borough of The Bronx (Cal. No. 22).

The Secretary presented the following communication from the Commissioner of Public Works of the Borough of The Bronx, and report of the Chief Engineer:

City of New York, President of the Borough of The Bronx, Office of the Commissioner of Public Works, April 2, 1913.

Mr. Jos. HAAG, Secretary, Board of Estimate and Apportionment, 277 Broadway, City:

Dear Sir—Owing to the congested condition at the junction of Sedgwick avenue and Undercliff avenue at High Bridge, where a double track street railway runs under one of the arches of said bridge, a study has been made with a view to relieving such condition.

It is proposed to utilize the second opening under the bridge and to widen Sedgwick avenue by taking additional land from property which was acquired for aqueduct purposes, and which is at present not being made use of. With this in view I am forwarding herewith for consideration and adoption by your Board "Map showing the widening of Sedgwick avenue, between High Bridge and Commerce avenue, and a change of grades in Sedgwick avenue from Depot place to Commerce avenue, and in Undercliff avenue from High Bridge northerly to the filed grade 63.25 (amendment to sections 8 and 15), dated March 31, 1913."

Respectfully,

THOMAS W. WHITTLE, Commissioner.

Report No. 13551. January 23, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Commissioner of Public Works, Borough of The Bronx, bearing date of April 2, 1913, requesting the approval of a map showing a change in the lines and grades of Sedgwick avenue, between Depot place and a point about 530 feet north of Commerce avenue, and of Undercliff avenue, from Sedgwick avenue to a point about 140 feet north of Commerce avenue; together with a change in the grade of Commerce avenue, from Sedgwick avenue to the first angle point westerly therefrom, and of West 169th street, between Lind avenue and Sedgwick avenue.

These changes comprise a widening of Sedgwick avenue on the westerly side between High Bridge and Commerce avenue, the discontinuance of a triangular area at the intersection of Sedgwick avenue and Undercliff avenue, and a slight adjustment of the street grades, as well as provision for definitely fixing the line separating Undercliff avenue and Sedgwick avenue through that portion of their length where they immediately adjoin, the line of demarcation being the boundary of the ramp used for the former street.

The widening of Sedgwick avenue falls wholly upon land owned by the City and acquired for water supply purposes. Its inclusion within the street area will admit of a readjustment of the trolley tracks in such a way as to prove advantageous both to the operation of the railroad and vehicular traffic.

Title to Sedgwick avenue and Undercliff avenue has already been acquired, but the proceedings failed to include the triangular area shown upon the map at their intersection, this being apparently designed for the purpose of merging into the street system a parcel of which a portion was unsuited to private development; this triangle does not appear to be in any way essential to the carrying out of a suitable street plan, and I see no reason why it should not be removed from the map.

The change proposed is, in my judgment, a proper one, and its approval is recommended after a public hearing, and with the understanding that proper steps will be taken to secure a transfer of jurisdiction over the area to be included within the lines of Sedgwick avenue to the Borough President.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York by changing the lines and grades of Sedgwick avenue, between Depot place and the present grade point about 530 feet north of Commerce avenue, changing the lines and grades of Undercliff avenue, between Sedgwick avenue and a point about 140 feet north of Commerce avenue; changing the grade of Commerce avenue, between its junction with Sedgwick avenue and the first angle point to the west; and changing the grade of West 169th street, between Lind avenue and Sedgwick avenue in the Borough of The Bronx, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated March 31, 1913.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 27th day of February, 1914, at 10:30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 27th day of February, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Changing the Street Plan for the Territory Bounded by the Harlem River, Washington Bridge, Sedgwick Avenue and Commerce Avenue, and Its Prolongation as Laid Out from Sedgwick Avenue to the First Angle Point Westerly Therefrom, Borough of The Bronx (Cal. No. 23).

The Secretary presented the following communication from the President of the Borough of The Bronx, and report of the Chief Engineer:

City of New York, President of the Borough of The Bronx, Office of the President, March 14, 1913.

Mr. JOS. HAAG, Secretary, Board of Estimate and Apportionment, 277 Broadway, City:

Dear Sir—In the matter of the elimination of the grade crossing of the New York Central and Hudson River Railroad at West 171st street, The Bronx, a plan has been prepared, as requested by you in your communication of May 22, 1911, and is forwarded herewith for consideration and adoption by your Board. It is entitled "Map showing the change of grades in West 171st street, between Sedgwick avenue and the grade 210, 415 feet northerly of West 171st street; Sedgwick avenue, between Commerce avenue and the grade 47,67, 641 feet northerly of West 171st street; the locating, laying out and the grades of a ramp extending southerly from West 171st street along the westerly property line of the Spuyten Duyvil and Port Morris Branch of the N. Y. C. & H. R. R. R. (amendment to section 15), dated March 12, 1913."

The report of Mr. Nelson P. Lewis, enclosed in your communication above referred to, calls attention to the practicability of laying out a street along the westerly line of the railroad. This suggestion has not been acted upon in making up the map both because the amount of land between the railroad and the bulkhead line is very small and will very probably be owned by some one party who will have frontage on West 171st street, and also because the ramp, as shown on this map, accomplishes the purpose of this improvement more economically.

Changes of grade are also embodied in this map, partly to adapt the grades to such existing conditions as those on Sedgwick avenue, which avenue is regulated and graded but not to the filed grades. Respectfully,

CYRUS C. MILLER, President of the Borough of The Bronx.

Report No. 13552. Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment held on May 18, 1911, a communication was presented by the general attorney of the New York Central and Hudson River Railroad Company submitting a plan for the elimination of the grade crossing at West 171st street, and asking that proceedings be instituted for carrying out the improvement.

In the report then submitted to the Board by your Engineer it was pointed out that under the provisions of chapter 423 of the Laws of 1903 and of chapter 634 of the Laws of 1905 the expense of constructing the proposed bridge over the railroad would be borne by the Railroad Company, while the City would be obliged to pay for the approaches as well as any damage which might result to land and to buildings. It was also noted that the plan as heretofore adopted for West 171st street failed to adequately provide street frontage for a large area to the south located between the railroad and the river, and it was suggested that in order that the way might be cleared for assessing the cost of the improvement upon benefited property, the street plan be modified in such a way as to extend it southwardly along the railroad land and as needed to adequately serve the property interests in this vicinity. At this time no information was at hand to show that title to West 171st street had been legally acquired.

With the accompanying communication from the President of the Borough, to whom the matter was referred, bearing date of March 14, 1913, there is submitted a plan showing changes proposed in the lines and grades of the street system within the territory bounded by the Harlem River, Washington Bridge, Sedgwick avenue and Commerce avenue, and its prolongation as laid out from Sedgwick avenue to the angle point westerly therefrom. This plan provides for readjusting the grade of West 171st street in such a way as to carry it over the existing railroad tracks, this including changes proposed in the grade of Sedgwick avenue and needed in order to legalize the elevation to which it has been improved. The Borough President states that the suggestions made by your Engineer have not been carried out in preparing the plan for the West 171st street crossing, "both because the amount of land between the railroad and the bulkhead line is very small and will very probably be owned by some one party who will have frontage on West 171st street, and also because the ramp accomplishes the purpose of this improvement more economically."

The plan is based on the use of a ramp adjoining and partly encroaching upon the railroad right of way, extending southwardly from West 171st street 240 feet and then returning upon itself to meet West 171st street as heretofore laid out and acquired. The carrying out of this plan will result in affording a frontage length of about 106 feet on the southerly side of the street and of about 160 feet on the northerly side. The assessed valuation of the abutting property on the south, this comprising a parcel extending southwardly a distance of about 700 feet, appears to be \$106,000, while the abutting property on the north is valued at only \$5,500. It is evident that the cost of the viaduct and the approaches thereto would be very much greater than could be assessed upon these properties even if the way were clear for the levying of an assessment. It also seems evident that if provision were to be made for laying out a street along the railroad right of way a claim might be set up by the owners of the water-front property that they had been substantially damaged by reason of losing immediate access to the railroad.

The improvement proposed at this point is wholly of a local character, and I see no reason why it should not be treated in the same way as was a crossing proposed at West 179th street, where a question was raised concerning the power of the City to assess locally for the improvement. This case was referred to the Corporation Counsel, who, at the meeting of the Board held on March 12, 1909 (page 477 of the Minutes), suggested that "the owners of such property, limited as they are in number, agreed as a condition to the laying out of this street across the railroad tracks that they will bear the cost of the acquisition or will cede the lands required for the street, and will cause the street to be constructed or bear the cost of its construction."

I would therefore recommend that the plan be referred back to the Borough President to be withheld until evidences are presented to show that all of the property owners benefited by the plan are prepared to meet the expense involved in carrying it out.

I would also suggest that, in case the plan is again presented, information be submitted to show that the Railroad Company is prepared to release for street purposes the portion of their right of way which would be encroached upon by the ramp if the plan now reported upon is adhered to.

Respectfully, NELSON P. LEWIS, Chief Engineer.

On motion, the matter was referred back to the President of the Borough of The Bronx.

Changing the Lines and Grades of the Street System Within the Territory Bounded by Bigelow Avenue, Jamaica Avenue, Walker Avenue, Ridgewood Avenue, Vanderveer Avenue, Fulton Street, Manor Avenue and Atlantic Avenue, Borough of Queens (Cal. No. 24).

The Secretary presented the following communication from the Secretary to the President of the Borough of Queens, and report of the Chief Engineer:

The City of New York, Office of the President of the Borough of Queens, Long Island City, December 3, 1913.

JOSEPH HAAG, Esq., Secretary of the Board of Estimate and Apportionment:

Dear Sir—President Connolly directs me to transmit herewith for the approval of the Board of Estimate and Apportionment "Map showing a change in the street system heretofore laid out within the territory bounded by Delafield street, Maurice avenue, Kneeland street, Grand street, Calamus avenue, Decker street and Stoutsburgh street, in the 2d Ward. Dated New York, July 12, 1913."

The Engineer in charge of the Topographical Bureau, this Department, states: "The purpose of this map is to include all of the old road within the lines now proposed. When this map has been adopted, the proceeding to legally open Calamus avenue, from Maurice avenue to Woodhaven avenue will have to be amended to conform with this map." Yours respectfully,

HUGH HALL, Secretary to the President.

Report No. 13553. Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Secretary to the President of the Borough of Queens, bearing date of July 29, 1913, requesting the approval of a map showing changes proposed in the lines of Calamus avenue between Delafield street and Grand street.

In preparing the damage maps for a proceeding for acquiring title to this street between Maurice avenue and Woodhaven avenue, which was authorized by the Board of Estimate and Apportionment on February 23, 1911, it has been found that the lines as mapped do not fully include an old road which it is understood has been dedicated to public use. The map now submitted is intended to overcome this objection,

and provides for slightly modifying the position of the street lines through various portions of its length and as required, in order to absorb the old road. To accomplish this, however, it has been found necessary to give the street a somewhat irregular width.

I see no reason why the map should not be approved, and would recommend such action after a public hearing.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the lines and grades of the street system within the territory bounded by South Railroad avenue, Lauronson place and its prolongation, Queens boulevard, Fitch avenue, Leon place, Broadway, Baxter avenue, Roosevelt avenue, 37th street, Hunt street, Junction avenue, Lurting street, Card place, South Railroad avenue, Barnwell street and Queens boulevard, in the Borough of Queens, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated June 19, 1913.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 27th day of February, 1914, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 27th day of February, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Modifying the Street Plan for the Territory Bounded by South Railroad Avenue, Lauronson Place and Its Prolongation, Queens Boulevard, Fitch Avenue, Leon Place, Broadway, Baxter Avenue, Roosevelt Avenue, 37th Street, Hunt Street, Junction Avenue, Lurting Street, Card Place, South Railroad Avenue, Barnwell Street and Queens Boulevard, Borough of Queens (Cal. No. 26).

The Secretary presented the following communication from the Secretary to the President of the Borough of Queens, and report of the Chief Engineer:

The City of New York, Office of the President of the Borough of Queens, Long Island City, July 18, 1913.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment:

Dear Sir—By direction of President Connolly, I transmit herewith for the approval of the Board of Estimate and Apportionment "Map showing a change in the street system heretofore laid out within the territory bounded by Baxter avenue, Roosevelt avenue, 37th street, Hunt street, Junction avenue, Lurting street, Card place, South Railroad avenue, Barnwell street, Queens boulevard, South Railroad avenue, Lauronson place, Queens boulevard, Fitch avenue, Leon place and Broadway, dated New York, June 19, 1913."

In connection with this map the Engineer in Charge of the Topographical Bureau, this Department, states: "This map was prepared in order to agree more closely with existing grades and to provide for the following changes in line reductions in the width from 60 feet to 50 feet of Aske street and Ithaca street. Aske street has a length of approximately only 500 feet, and Ithaca street was the subject of a personal inspection by Chief Engineer Nelson P. Lewis, and in this case he thought the damage would probably be excessive if a 60 foot street was insisted upon."

Kingsland avenue is reduced in width from 80 feet to 70 feet, and the line is deflected in the block between Ithaca street and Judge street, in order to avoid cutting a brick church, which has recently been constructed.

The lines of Macnish street have been altered, in order to meet the wishes of the owners of the entire property through which the street extends. Coler avenue is eliminated in the block east of Leon place on account of being unnecessary for property subdivision.

Barnwell street is reduced in width in order to agree with the existing street.

The street layout between Van Dam street and Voorhees place has been entirely revised in order to more efficiently divide the area." Yours respectfully,

HUGH HALL, Secretary to the President.

Report No. 13554. January 23, 1914.
Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment, held on January 9, 1913, a report was presented concerning a change proposed in the plan of the street system within the territory bounded by South Railroad avenue, Lauronson place and its prolongation, Queens boulevard, Fitch avenue, Leon place, Broadway, Baxter avenue, Roosevelt avenue, 37th street, Hunt street, Junction avenue, Lurting street, Card place, South Railroad avenue, Barnwell street and Queens boulevard, Borough of Queens.

In the report then submitted by your Engineer it was pointed out that the plan included provision for decreasing the width of four streets from 60 feet to 50 feet, and it was suggested that in view of the probable rapid development of this section which closely adjoins the Roosevelt avenue subway route, the lines originally fixed for these streets should be adhered to. At the meeting of January 23 the plan was withdrawn by the Borough President for further consideration.

With the accompanying communication from the Secretary to the President, bearing date of July 18, 1913, a modified plan is presented, this differing from the one originally considered, by restoring the width of Forley street, Denman street and Case street to 60 feet, the width of 50 feet still proposed for Ithaca street being defended on the ground that the width of 60 feet heretofore fixed would involve excessive damage to buildings. The amended map also shows a proposed narrowing of Layton street and Ketcham street through the two blocks between Baxter avenue and Britton avenue from 60 feet to 50 feet; these streets are parallel and each has a length of about 750 feet, and it is understood that the lines now planned are intended to coincide with those recognized by the property owners. It also shows the laying out of Roach place between Kingsland avenue and the Flushing and Northside division of the Long Island Railroad, the street here being given a width of 60 feet and a position intended to coincide with that of an old road, which it is understood has been dedicated to public use; the elevation planned for this street at the railroad indicates that it is ultimately expected to provide a crossing for foot traffic only.

As reviewed in my previous report, the plan as amended makes provision for discontinuing Coler avenue as heretofore laid out east of Leon place, Ketcham place as heretofore laid out between Britton avenue and Elmhurst avenue, Macnish street as heretofore laid out between Vietor place and Elmhurst avenue, and Van Nest street as laid out between Roosevelt avenue and Kingsland avenue. It also shows a narrowing of Barnwell street, Vietor place, Ithaca street and Aske street from 60 feet to 50 feet. A change in the line of Macnish street between Elmhurst avenue and Kingsland avenue is indicated on the plan, which also shows a narrowing of Kingsland avenue between Warner avenue and Van Dine street from 80 feet to 70 feet, together with a change in the street line. Provision is made for a new subdivision of the territory bounded by Van Dine street, Roosevelt avenue, Voorhees place and Hunt street, by the laying out of Case place, Acorn street and Aske place with positions intended to coincide with developments already made, this modification being the occasion for the discontinuance of Van Nest street. A new street is shown approximately on the line of Voorhees place, extending from Hunt street to Kingsland avenue, and subdividing what would otherwise be a block of excessive dimensions. At the intersection of Roosevelt avenue with Warner avenue and Aske street, a small triangular parcel is designated as a Public Park, this comprising an area of about .005 acres. The Kingsland avenue change is intended to avoid damage to a church edifice on the northerly side of the street, and to a number of buildings which occupy the frontage on the south.

Advantage is taken of the opportunity to make a number of adjustments in block dimensions, angles and grades, which changes it is understood are due to the results of a more precise survey of the territory. The maximum grade change is located at the intersection of Voorhees place with Banta street, the grade here being lowered nearly three feet; the remaining changes are generally of a minor character and appear in each case to be desired in order to conform with existing conditions. The proposed modifications will necessitate a change in the drainage plan heretofore prepared.

I see no reason why the map should not be approved, and would recommend such action after a public hearing.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the lines and grades of the street system within the territory bounded by South Railroad avenue, Lauronson place and its prolongation, Queens boulevard, Fitch avenue, Leon place, Broadway, Baxter avenue, Roosevelt avenue, 37th street, Hunt street, Junction avenue, Lurting street, Card place, South Railroad avenue, Barnwell street and Queens boulevard, in the Borough of Queens, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated June 19, 1913.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 27th day of February, 1914, at 10.30 o'clock a. m.

Resolved, that the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the City Record for ten days continuously, Sundays and legal holidays excepted, prior to the 27th day of February, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Petition Requesting an Enlargement of the Area of Benefit in the Proceeding for Acquiring Title to Church Avenue, Between 36th Street and Ocean Parkway, Borough of Brooklyn (Cal. No. 27).

(At the meeting of the Board on September 25, 1913, this matter was laid over for two weeks. On October 9, 1913, it was laid over until November 20, 1913. On November 20, 1913, it was laid over until December 18, 1913, and on the latter date, until January 16, 1914.)

(At the meeting of the Board on December 31, 1913, there was presented a communication signed by the President of the Borough of Brooklyn and the Acting President of the Board of Aldermen, advising that the matter had been called to their attention. As a result of their investigation into the petitions for relief, they recommended that, in addition to the one-third of the cost of the buildings placed upon the City by the Commissioner of Assessment, 25 per cent. of the total assessment be charged against the Borough of Brooklyn and the remainder against the local area heretofore fixed. January 30, 1914, was fixed as the date for a public hearing on this proposal. See Cal. No. 9.)

(At the meeting of the Board, held on January 16, 1914, the matter of the petition for relief from assessment was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Amending the Proceeding for Acquiring Title to East 53d Street and to East 54th Street, from Remsen Avenue to the Bulkhead Line of Jamaica Bay, Excluding from Each Street the Land of the Long Island Railroad Company, Borough of Brooklyn (Cal. No. 28).

(At the meeting of the Board on December 18, 1913, this matter was laid over until January 16, 1914; on the latter date it was laid over for two weeks.)

The President of the Borough of Brooklyn offered the following:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of amending the proceeding instituted by said Board on November 20, 1908, for acquiring title to East 53d street and East 54th street, between Remsen avenue and the bulkhead line of Jamaica Bay, excluding the land owned by the Long Island Railroad, Borough of Brooklyn, so as to relate to the aforesaid streets as they are now laid out between the following limits: East 53d street, from Remsen avenue to Foster avenue, and from Glenmore road to Avenue T; East 54th street, from Remsen avenue to Clarendon road, and from Farragut road to Avenue T.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed amended district of assessment for benefit in this proposed amended proceeding:

1. Beginning at a point on the southwesterly line of Remsen avenue where it is intersected by a line midway between East 51st street and East 52d street, and running thence northeastwardly at right angles to Remsen avenue, a distance of 200 feet; thence southeastwardly and parallel with Remsen avenue to the intersection with a line at right angles to Remsen avenue and passing through a point on its southwesterly side where it is intersected by a line midway between East 54th street and East 55th street; thence southwestwardly along the said line at right angles to Remsen avenue to the intersection with its southwesterly side; thence southwardly along the said line midway between East 54th street and East 55th street to the intersection with a line midway between Foster avenue and Farragut road; thence westwardly along the said line midway between Foster avenue and Farragut road to the intersection with a line midway between East 51st street and East 52d street; thence northwardly along the said line midway between East 51st street and East 52d street to the intersection with a line midway between Farragut road and Glenwood road; thence eastwardly along the said line midway between Farragut road and Glenwood road to the intersection with a line midway between East 53d street and East 54th street; thence northwardly along the said line midway between East 53d street and East 54th street to a point distant 100 feet northerly from the northwesterly line of Farragut road; thence eastwardly and parallel with Farragut road to the point or place of beginning.

2. Beginning at a point on a line midway between East 54th street and East 55th street distant 100 feet northerly from the northerly line of Farragut road, and running thence southwardly along a line always midway between East 54th street and East 55th street to a point distant 100 feet southeasterly from the southeasterly line of Avenue T; thence southwestwardly and parallel with Avenue T to the intersection with a line at right angles to Avenue T and passing through a point on the southerly line of Avenue S where it is intersected by a line midway between East 51st street and East 52d street; thence northwestwardly along the said line at right angles to Avenue T to the intersection with the southerly line of Avenue S; thence northwardly along the said line midway between East 51st street and East 52d street to the intersection with a line midway between Farragut road and Glenwood road; thence eastwardly along the said line midway between Farragut road and Glenwood road to the intersection with a line midway between East 53d street and East 54th street; thence northwardly along the said line midway between East 53d street and East 54th street to a point distant 100 feet northerly from the northwesterly line of Farragut road; thence eastwardly and parallel with Farragut road to the point or place of beginning.

Resolved, That this Board consider the proposed amended district of assessment at a meeting of the Board to be held in The City Hall, Borough of Manhattan, in the City Hall, on the 27th day of February, 1914, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby to be published in the City Record and in the corporation newspapers for ten days prior to the 27th day of February, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Relief from Assessment in the Proceeding for Acquiring Title to Avenue D, Between Flatbush Avenue and Rogers Avenue, Borough of Brooklyn (Cal. No. 29).

The Secretary presented the following report of the Chief Engineer:

Report No. 13550.

January 23, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment held on November 6, 1913, a petition was presented from Harriet F. and J. Fred Grant requesting relief from assessment in the matter of the proceeding for acquiring title to Avenue D, between Flatbush avenue and Rogers avenue, Borough of Brooklyn, and was at that time referred to your Engineer for investigation and report.

This proceeding was authorized on December 23, 1904, and relates to four blocks at the westerly end of Avenue D, which has been laid out to have a width of 80 feet. In conformity with the rules then observed relative to relief from assessment in street opening proceedings, 8 per cent. of the cost was assumed by the City at large, while provision was made for placing the remaining expense upon a local area. Title to the street was vested in the City on December 15, 1905, to permit of carrying out a grading improvement, and on June 2, 1908, the report of the Street Opening Com-

and provides for slightly modifying the position of the street lines through various portions of its length and as required, in order to absorb the old road. To accomplish this, however, it has been found necessary to give the street a somewhat irregular width.

I see no reason why the map should not be approved, and would recommend such action after a public hearing.

Respectfully, NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the lines and grades of the street system within the territory bounded by South Railroad avenue, Lauronson place and its prolongation, Queens boulevard, Fitch avenue, Leon place, Broadway, Baxter avenue, Roosevelt avenue, 37th street, Hunt street, Junction avenue, Lurting street, Card place, South Railroad avenue, Barnwell street and Queens boulevard, in the Borough of Queens, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated June 19, 1913.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 27th day of February, 1914, at 10.30 o'clock a. m.

Resolved, That the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 27th day of February, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Modifying the Street Plan for the Territory Bounded by South Railroad Avenue, Lauronson Place and Its Prolongation, Queens Boulevard, Fitch Avenue, Leon Place, Broadway, Baxter Avenue, Roosevelt Avenue, 37th Street, Hunt Street, Junction Avenue, Lurting Street, Card Place, South Railroad Avenue, Barnwell Street and Queens Boulevard, Borough of Queens (Cal. No. 26).

The Secretary presented the following communication from the Secretary to the President of the Borough of Queens, and report of the Chief Engineer:

The City of New York, Office of the President of the Borough of Queens, Long Island City, July 18, 1913.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment:

Dear Sir—By direction of President Connally, I transmit herewith for the approval of the Board of Estimate and Apportionment "Map showing a change in the street system heretofore laid out within the territory bounded by Baxter avenue, Roosevelt avenue, 37th street, Hunt street, Junction avenue, Lurting street, Card place, South Railroad avenue, Barnwell street, Queens boulevard, South Railroad avenue, Lauronson place, Queens boulevard, Fitch avenue, Leon place and Broadway, dated New York, June 19, 1913."

In connection with this map the Engineer in Charge of the Topographical Bureau, this Department, states: "This map was prepared in order to agree more closely with existing grades and to provide for the following changes in line reductions in the width from 60 feet to 50 feet of Aske street and Ithaca street. Aske street has a length of approximately only 500 feet, and Ithaca street was the subject of personal inspection by Chief Engineer Nelson P. Lewis, and in this case he thought the damage would probably be excessive if a 60 foot street was insisted upon."

Kingsland avenue is reduced in width from 80 feet to 70 feet, and the line is deflected in the block between Ithaca street and Judge street, in order to avoid cutting a brick church, which has recently been constructed.

The lines of Macnich street have been altered, in order to meet the wishes of the owners of the entire property through which the street extends. Coler avenue is eliminated in the block east of Leon place on account of being unnecessary for property subdivision.

Barnwell street is reduced in width in order to agree with the existing street.

The street layout between Van Dam street and Voorhees place has been entirely revised in order to more efficiently divide the area." Yours respectfully,

HUGH HALL, Secretary to the President.

Report No. 13554.

January 23, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment, held on January 19, 1913, a report was presented concerning a change proposed in the plan of the street system within the territory bounded by South Railroad avenue, Lauronson place and its prolongation, Queens boulevard, Fitch avenue, Leon place, Broadway, Baxter avenue, Roosevelt avenue, 37th street, Hunt street, Junction avenue, Lurting street, Card place, South Railroad avenue, Barnwell street and Queens boulevard, Borough of Queens.

In the report then submitted by your Engineer it was pointed out that the plan included provision for decreasing the width of four streets from 60 feet to 50 feet, and it was suggested that in view of the probable rapid development of this section which closely adjoins the Roosevelt avenue subway route, the lines originally fixed for these streets should be adhered to. At the meeting of January 23 the plan was withdrawn by the Borough President for further consideration.

With the accompanying communication from the Secretary to the President, bearing date of July 18, 1913, a modified plan is presented, this differing from the one originally considered, by restoring the width of Forley street, Denman street and Case street to 60 feet, the width of 50 feet still proposed for Ithaca street being defended on the ground that the width of 60 feet heretofore fixed would involve excessive damage to buildings. The amended map also shows a proposed narrowing of Layton street and Ketcham street through the two blocks between Baxter avenue and Britton avenue from 60 feet to 50 feet; these streets are parallel and each has a length of about 750 feet, and it is understood that the lines now planned are intended to coincide with those recognized by the property owners. It also shows the laying out of Roach place between Kingsland avenue and the Flushing and Northside division of the Long Island Railroad, the street here being given a width of 60 feet and a position intended to coincide with that of an old road, which it is understood has been dedicated to public use; the elevation planned for this street at the railroad indicates that it is ultimately expected to provide a crossing for foot traffic only.

As reviewed in my previous report, the plan as amended makes provision for discontinuing Coler avenue as heretofore laid out east of Leon place, Ketcham place as heretofore laid out between Britton avenue and Elmhurst avenue, Macnich street as heretofore laid out between Vietor place and Elmhurst avenue, and Van Nest street as laid out between Roosevelt avenue and Kingsland avenue. It also shows a narrowing of Barnwell street, Vietor place, Ithaca street and Aske street from 60 feet to 50 feet. A change in the line of Macnich street between Elmhurst avenue and Kingsland avenue is indicated on the plan, which also shows a narrowing of Kingsland avenue between Warner avenue and Van Dine street from 80 feet to 70 feet, together with a change in the street line. Provision is made for a new subdivision of the territory bounded by Van Dine street, Roosevelt avenue, Voorhees place and Hunt street, by the laying out of Case place, Acorn street and Aske place with positions intended to coincide with developments already made, this modification being the occasion for the discontinuance of Van Nest street. A new street is shown approximately on the line of Voorhees place, extending from Hunt street to Kingsland avenue, and subdividing what would otherwise be a block of excessive dimensions. At the intersection of Roosevelt avenue with Warner avenue and Aske street, a small triangular parcel is designated as a Public Park, this comprising an area of about .005 acres. The Kingsland avenue change is intended to avoid damage to a church edifice on the northerly side of the street, and to a number of buildings which occupy the frontage on the south.

Advantage is taken of the opportunity to make a number of adjustments in block dimensions, angles and grades, which changes it is understood are due to the results of a more precise survey of the territory. The maximum grade change is located at the intersection of Voorhees place with Banta street, the grade here being lowered nearly three feet; the remaining changes are generally of a minor character and appear in each case to be desired in order to conform with existing conditions. The proposed modifications will necessitate a change in the drainage plan heretofore prepared.

I see no reason why the map should not be approved, and would recommend such action after a public hearing.

Respectfully, NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 442 of the Greater New York Charter, as amended, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York, by changing the lines and grades of the street system within the territory bounded by South Railroad avenue, Lauronson place and its prolongation, Queens boulevard, Fitch avenue, Leon place, Broadway, Baxter avenue, Roosevelt avenue, 37th street, Hunt street, Junction avenue, Lurting street, Card place, South Railroad avenue, Barnwell street and Queens boulevard, in the Borough of Queens, City of New York, which proposed change is more particularly shown upon a map or plan bearing the signature of the President of the Borough, and dated June 19, 1913.

Resolved, That this Board consider the proposed change at a meeting of the Board, to be held in the City Hall, Borough of Manhattan, City of New York, on the 27th day of February, 1914, at 10.30 o'clock a. m.

Resolved, that the Secretary of this Board cause these resolutions, and a notice to all persons affected thereby that the proposed change will be considered at a meeting of the Board to be held at the aforesaid time and place, to be published in the CITY RECORD for ten days continuously, Sundays and legal holidays excepted, prior to the 27th day of February, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Petition Requesting an Enlargement of the Area of Benefit in the Proceeding for Acquiring Title to Church Avenue, Between 36th Street and Ocean Parkway, Borough of Brooklyn (Cal. No. 27).

(At the meeting of the Board on September 25, 1913, this matter was laid over for two weeks. On October 9, 1913, it was laid over until November 20, 1913. On November 20, 1913, it was laid over until December 18, 1913, and on the latter date, until January 16, 1914.)

(At the meeting of the Board on December 31, 1913, there was presented a communication signed by the President of the Borough of Brooklyn and the Acting President of the Board of Aldermen, advising that the matter had been called to their attention. As a result of their investigation into the petitions for relief, they recommended that, in addition to the one-third of the cost of the buildings placed upon the City by the Commissioner of Assessment, 25 per cent. of the total assessment be charged against the Borough of Brooklyn and the remainder against the local area heretofore fixed. January 30, 1914, was fixed as the date for a public hearing on this proposal. See Cal. No. 9.)

(At the meeting of the Board, held on January 16, 1914, the matter of the petition for relief from assessment was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Amending the Proceeding for Acquiring Title to East 53d Street and to East 54th Street, from Remsen Avenue to the Bulkhead Line of Jamaica Bay, Excluding from Each Street the Land of the Long Island Railroad Company, Borough of Brooklyn (Cal. No. 28).

(At the meeting of the Board on December 18, 1913, this matter was laid over until January 16, 1914; on the latter date it was laid over for two weeks.)

The President of the Borough of Brooklyn offered the following:

Whereas, The Board of Estimate and Apportionment of The City of New York is considering the advisability of amending the proceeding instituted by said Board on November 20, 1908, for acquiring title to East 53d street and East 54th street, between Remsen avenue and the bulkhead line of Jamaica Bay, excluding the land owned by the Long Island Railroad, Borough of Brooklyn, so as to relate to the aforesaid streets as they are now laid out between the following limits: East 53d street, from Remsen avenue to Foster avenue, and from Glenmore road to Avenue T; East 54th street, from Remsen avenue to Clarendon road, and from Farragut road to Avenue T.

Resolved, That the Board of Estimate and Apportionment, in pursuance of the provisions of the Greater New York Charter, as amended, hereby gives notice that the following is the proposed amended district of assessment for benefit in this proposed amended proceeding:

1. Beginning at a point on the southwesterly line of Remsen avenue where it is intersected by a line midway between East 51st street and East 52d street, and running thence northeasterly at right angles to Remsen avenue, a distance of 200 feet; thence southeasterly and parallel with Remsen avenue to the intersection with a line at right angles to Remsen avenue and passing through a point on its southwesterly side where it is intersected by a line midway between East 54th street and East 55th street; thence southwesterly along the said line at right angles to Remsen avenue to the intersection with its southwesterly side; thence southwardly along the said line midway between East 54th street and East 55th street to the intersection with a line midway between Foster avenue and Farragut road; thence westwardly along the said line midway between Foster avenue and Farragut road to the intersection with a line midway between East 51st street and East 52d street; thence northwardly along the said line midway between East 51st street and East 52d street to the point or place of beginning.

2. Beginning at a point on a line midway between East 54th street and East 55th street distant 100 feet northerly from the northerly line of Farragut road, and running thence southwardly along a line always midway between East 54th street and East 55th street to a point distant 100 feet southeasterly from the southeasterly line of Avenue T; thence southwestwardly and parallel with Avenue T to the intersection with a line at right angles to Avenue T and passing through a point on the southerly line of Avenue S where it is intersected by a line midway between East 51st street and East 52d street; thence northwardly along the said line midway between East 51st street and East 52d street to the intersection with a line midway between Farragut road and Glenwood road; thence eastwardly along the said line midway between Farragut road and Glenwood road to the intersection with a line midway between East 53d street and East 54th street; thence northwardly along the said line midway between East 53d street and East 54th street to a point distant 100 feet northerly from the northerly line of Farragut road; thence eastwardly and parallel with Farragut road to the point or place of beginning.

Resolved, That this Board consider the proposed amended district of assessment at a meeting of the Board to be held in The City of New York, Borough of Manhattan, in the City Hall, on the 27th day of February, 1914, at 10.30 a. m., and that at the same time and place a public hearing thereon will then and there be had.

Resolved, That the Secretary of this Board cause these resolutions and a notice to all persons affected thereby to be published in the CITY RECORD and in the corporation newspapers for ten days prior to the 27th day of February, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Relief from Assessment in the Proceeding for Acquiring Title to Avenue D, Between Flatbush Avenue and Rogers Avenue, Borough of Brooklyn (Cal. No. 29).

The Secretary presented the following report of the Chief Engineer:

Report No. 13550. January 23, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—At the meeting of the Board of Estimate and Apportionment held on November 6, 1913, a petition was presented from Harriet F. and J. Fred Grant requesting relief from assessment in the matter of the proceeding for acquiring title to Avenue D, between Flatbush avenue and Rogers avenue, Borough of Brooklyn, and was at that time referred to your Engineer for investigation and report.

This proceeding was authorized on December 23, 1904, and relates to four blocks at the westerly end of Avenue D, which has been laid out to have a width of 80 feet. In conformity with the rules then observed relative to relief from assessment in street opening proceedings, 8 per cent. of the cost was assumed by the City at large, while provision was made for placing the remaining expense upon a local area. Title to the street was vested in the City on December 15, 1905, to permit of carrying out a grading improvement, and on June 2, 1908, the report of the Street Opening Com-

missioners was presented to the Court for confirmation, this showing that the expense involved was as follows:	
Awards for land	\$57,110 00
Incidental expenses	3,163 88
Interest	8,452 28
Total.....	\$68,726 16
Assumed by the City (8 per cent.)	5,498 09

To be assessed on an area of benefit \$63,228 07

Under the provisions of the Street Opening Law as framed on the date when the proceeding was authorized, the assessment district was fixed by the Commissioners appointed in the proceeding and was made to include all the property within a distance of about 200 feet of the street, this comprising 80 parcels on which the Commissioners proposed to assess amounts ranging from \$1.15 to \$6,397.49. The Court refused to confirm this report on the ground that the wards for the land should be of a nominal character, and directed the Commissioners to make a new report.

At the meeting of the Board of Estimate and Apportionment held on November 6, 1908, a petition for relief from assessment in this proceeding was presented by Mr. Robert H. Haskell on behalf of a number of the property owners, and in the report then submitted by your Engineer it was noted that the assessment area fixed by the Commissioners was somewhat smaller than would have been provided under the usual practice of the Board, but that had the present procedure been observed no portion of the expense would have been placed upon the City at large. Believing that the City had already assumed a generous proportion of the expense and in view of the action taken by the Court, it was recommended that the petition be denied. The matter was thereupon referred to a select committee consisting of the Comptroller, the President of the Borough of Brooklyn, and the Corporation Counsel; the records of the Board do not indicate that this committee ever made a report.

On December 31, 1909, the amended report of the Commissioners of Estimate and Assessment was confirmed, this indicating that it was proposed to award \$1,242.26 for the land taken, and that the incidental expenses had increased to \$4,706.14. The new report made provision for placing the entire expense upon property within a distance of 100 feet on each side of the street, this comprising 42 parcels.

The owners of the land taken appealed from the decision of the Court under which the report was confirmed, but the decision was affirmed by the Appellate Division; the owners then carried the case to the Court of Appeals, and on December 13, 1910, the orders of the two lower Courts were reversed and the Commissioners were directed to grant substantial awards.

The new preliminary report of the Commissioners, dated September 23, 1913, shows that the proceeding relates to an area of 87,126.22 square feet, of which 6,400 square feet is included within the lines of Bedford avenue, title to which had previously been acquired.

The cost of the proceeding is now estimated as follows:

Awards for land	\$55,500 00
Interest	28,000 00
Commissioners' fees	1,500 00
Other incidental expenses	7,595 57
Contingencies	7,500 00

Total..... \$100,095 57

The Commissioners now propose to enlarge the assessment district to include the area bounded by a line 100 feet west of Flatbush avenue, a line 100 feet north of Beverly road, a line midway between Nostrand avenue and East 31st street, and a line midway between Farragut road and Glenwood road, this comprising 1,445 parcels, the assessments on which range from a rate of less than \$1 per lot of 20 by 100 feet, at the extreme boundary of the district to a rate of about \$550 per lot for land within a distance of 100 feet of the street. As a result of this distribution of the assessment the frontage will bear about one-half of the total cost of the proceeding, while more than one-half of the parcels will be assessed at a rate of less than \$15 per lot.

The petitioners are owners of two parcels having an aggregate frontage of 100 feet on Avenue D and 90 feet on East 25th street, which are to be assessed to the amount of \$2,736.01. They claim that the assessment is larger than necessary to cover the proper expense of the proceeding, and that it exceeds the benefit which they will derive from the improvement.

The Commissioners' report does not show that any provision has yet been made for extending the 8 per cent. relief provided by the City, and this amount has not yet been deducted from the preliminary assessments. If this relief is applied uniformly it would appear that the frontage property would only be obliged to pay for the value of the land required to secure a street width of 37 feet. The area of assessment now proposed is an exceedingly liberal one and much larger than would be proposed under the rules now observed by the Board.

In my judgment and under the assumption that substantial awards will have to be made for the land taken in the proceeding in conformity with the position taken by the Court of Appeals, the owners of frontage property have been generously treated, and I would recommend that the petition be denied.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York hereby denies the petition submitted by Harriet F. and J. Fred Grant, requesting relief from assessment in the proceeding instituted by said Board on December 23, 1904, for acquiring title to Avenue D, from Flatbush avenue to Rogers avenue, Borough of Brooklyn.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Vesting Title to Fort Schuyler Road, from the Easterly Boundary Line of the Land Acquired for West Farms Road, at Westchester Creek, to Morris Lane, Borough of The Bronx (Cal. No. 30).

The Secretary presented the following report of the Chief Engineer:

Report No. 13555. January 24, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—In a report presented by your Engineer at the meeting of the Board of Estimate and Apportionment held on December 31, 1913, concerning the rule and damage maps which had been prepared in the matter of acquiring title to Appleton avenue and Ericson place, attention was called to the desirability of vesting title to certain parcels in these streets, a portion of which fall within the lines of Fort Schuyler road, simultaneously with the vesting proposed for the latter street. To permit of this treatment it was recommended that the resolution previously adopted by the Board for the vesting of title to Fort Schuyler road on January 2, 1914, be rescinded with the understanding that provision would be made for placing title in the City as soon as the oaths of the Commissioners of Estimate and Assessment for the Appleton avenue and Ericson place proceeding had been filed. This course was objected to by the President of the Borough, in so far as it provided for indefinitely delaying the vesting of Fort Schuyler road where a grading improvement is about to be carried out, and at his suggestion a resolution was adopted fixing the date of vesting for February 2, 1914.

I am now informally advised by the Assistant Corporation Counsel in Charge of the Bureau of Street Openings that a motion relative to the appointment of the Appleton avenue and Ericson place Commission will be made on January 29, and that to conform with the legal procedure some little time must elapse before the Commissioners will be appointed and before they can qualify. I am also advised that the taking of title to Fort Schuyler road can be deferred for another thirty days without delaying the carrying out of the proposed surface improvement.

Under these conditions I would recommend that the resolution adopted on December 31, 1913, providing for vesting title to Fort Schuyler road on February 2, 1914, be rescinded, and that a new resolution be adopted fixing March 2, 1914, as the date for vesting, with the understanding that the same date will later be fixed for vesting title to adjoining parcels in Ericson place and Appleton avenue, provided that the Commissioners in this proceeding have been appointed and have filed their oaths of office. Respectfully,

NELSON P. LEWIS, Chief Engineer.

Mr. L. Napoleon Levy appeared in opposition to vesting title to Fort Schuyler road. Mr. Edward W. Murphy appeared and requested that title be vested to Apple-

ton avenue and Ericson place on the same date as that recommended for Fort Schuyler road.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment of The City of New York hereby rescinds the resolution adopted by said Board on December 31, 1913, directing that on February 2, 1914, title to Fort Schuyler road, from the easterly boundary line of the land acquired for West Farms road, at Westchester Creek, to Morris lane, Borough of The Bronx, shall be vested in The City of New York.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following was offered:

Whereas, The Board of Estimate and Apportionment on the 27th day of July, 1911, adopted a resolution requesting the Corporation Counsel to institute proceedings to acquire title in fee, wherever the same has not heretofore been acquired for the use of the public, to the lands, tenements and hereditaments that shall or may be required for the purpose of opening and extending Fort Schuyler road, from the easterly boundary of lands acquired for West Farms road, at Westchester Creek to Shore drive, Borough of The Bronx, City of New York, which proceeding was amended March 27, 1913, by excluding therefrom that portion of said Fort Schuyler road lying south of Morris lane, and further amended July 10, 1913, so as to relate to said Fort Schuyler road, from the easterly boundary line of the land acquired for West Farms road at Westchester Creek to Morris lane, as then laid out upon the map or plan of The City of New York; and

Whereas, Commissioners of Estimate and Assessment have been appointed by the Supreme Court in proceedings to acquire title to said street, and the oaths of said Commissioners of Estimate and Assessment were duly filed as required by law on the 17th day of September, 1912;

Resolved, That the Board of Estimate and Apportionment of The City of New York, in pursuance of the provisions of Section 990 of the Greater New York Charter, as amended, directs that upon the 2d day of March, 1914, the title in fee to each and every piece or parcel of land lying within the lines of said Fort Schuyler road, from the easterly boundary line of the land acquired for West Farms road at Westchester Creek to Morris lane, in the Borough of The Bronx, City of New York, so required, shall be vested in The City of New York.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Modifying the Drainage Plan for Sewerage District No. 10-FO, Borough of Manhattan (Cal. No. 31).

The Secretary presented the following communication from the Secretary to the President of the Borough of Manhattan and report of the Chief Engineer:

City of New York, Office of the President of the Borough of Manhattan, City Hall, August 26, 1913.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment, 277 Broadway, New York:

Dear Sir—I transmit herewith, signed by Borough President McAneny, the following plans:

* * * * *

4. Original and three copies of Modified Drainage Plan, showing the location sizes and grades of sewers in Sewerage District No. 10-FO (114th street, between 1st and Pleasant avenues). Very truly yours,

LOUIS GRAVES, Secretary to the President.

Report No. 13547. January 23, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the Secretary to the President of the Borough of Manhattan, bearing date of August 26, 1913, requesting the approval of a modification in the drainage plan for Sewerage District No. 10FO.

This plan relates to the sewer in East 114th street between 1st avenue and Pleasant avenue, which it is proposed to replace by one of larger capacity. Information is presented to show that the existing sewer is too small to promptly remove storm water, and that this condition has been the occasion for a large number of complaints on the part of the property owners. In order to avoid interfering with existing house connections, the grade of the new sewer is so planned as to give its invert an elevation approximately the same as that of the outlet at the point where they meet, which treatment will result in surcharging the lateral during periods of maximum runoff. In order to relieve the City from responsibility for damage which might result by reason of surcharging, a note has been attached to the plan calling attention to the conditions under which it has been designed.

I see no reason why the plan should not be approved, and would recommend such action. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the modified drainage plan showing location, sizes and grades of sewers in Sewerage District No. 10-FO, Borough of Manhattan, being a design for a sewer in 114th street, between Pleasant avenue and 1st avenue, bearing the signature of the President of the Borough and dated August 18, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Modifying the Drainage Plan for Map N, District No. 29, Borough of Brooklyn (Cal. No. 32).

The Secretary presented the following communication from the President of the Borough of Brooklyn and report of the Chief Engineer:

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, November 26, 1913.

Mr. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment:

Dear Sir—I forward tracing and three prints of the following maps for proposed change in drainage plans for favorable consideration:

Map "N," District 29—Change plan sewers in 8th avenue, between 12th and 15th streets, and in 15th street, between 8th avenue and Prospect Park West.

* * * * *

The change of plan entitled Map N, District 29, is necessary on account of the sewers as they now exist in 15th street, from 8th avenue to Prospect Park West, and Prospect Park West, from 13th to 15th streets, being too small, the basements of apartment houses and in some cases private houses are flooded from the sewers after severe storms. The proposed sewer on this plan will remedy the condition.

* * * * *

Yours very truly, L. H. POUNDS, President of the Borough.

Report No. 13549. January 23, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, Chairman of the Board of Estimate and Apportionment:

Sir—Herewith is transmitted a communication from the President of the Borough of Brooklyn, bearing date of November 26, 1913, requesting the approval of a modification in the drainage plan for Map N, District No. 29.

The changes proposed comprise the replacing of the 12-inch sewers heretofore laid in 15th street between Prospect Park West and 8th avenue, and in 8th avenue between 15th street and 12th street, with new sewers having a diameter in the respective streets of 30 inches and 36 inches. Information is presented to show that the sewers heretofore built in this vicinity are of an inadequate capacity, and that for this reason serious damage has been occasioned to property at times of severe storms. The changes now proposed are intended to relieve this condition.

In my judgment the plan is a proper one, and its approval is recommended.

Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the modified drainage plan for Map N, District 29, Borough of Brooklyn, being a design for sewers in 8th avenue, between 12th street and 15th street, and in 15th street, between 8th avenue and Prospect Park West, bearing the signature of the President of the Borough and dated November 26, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Modifying the Drainage Plan for Map T, District No. 40, Borough of Brooklyn
(Cal. No. 33).

The Secretary presented the following communication from the Acting Commissioner of Public Works of the Borough of Brooklyn and report of the Chief Engineer:

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, November 17, 1913.

Mr. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment:*

Dear Sir—I transmit herewith tracing and three prints, showing change of plan for sewer in 16th avenue, from 60th street to 64th street, proceedings for which improvement have been started, for adoption by the Board of Estimate.

The change of plan is submitted at this time because of the fact that the improvement of the Sea Beach line of the Brooklyn Rapid Transit Company by depressing the tracks along the line of its right of way between 63d and 64th streets, will necessitate the lowering of the grade of this sewer between the limits shown on the plan.

It is deemed preferable to lower the grade of the sewer for three and one-half blocks rather than install a siphon under the tracks. Yours very truly,

GEO. W. TILLSON, Acting Commissioner of Public Works.

Report No. 13548. January 23, 1914.

Hon. JOHN PURROY MITCHEL, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—Herewith is transmitted a communication from the Acting Commissioner of Public Works, Borough of Brooklyn, bearing date of November 17, 1913, requesting the approval of a modification in the drainage plan for Map T, District No. 40.

This plan relates to the sewer in 16th avenue between 60th street and 64th street and provides for depressing its grade in order to clear the way for the lowering of the tracks of the Sea Beach Railroad. The elevations now proposed will give the sewer a grade ranging from 20 feet to 23 feet below that of the street. The Board is informed that this treatment is deemed preferable to the use of a siphon across the railroad right of way which would otherwise be required.

In my judgment the plan is a proper one, and its approval is recommended.

Respectfully, NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the modified drainage plan for Map T, District 40, being the design for a sewer in 16th avenue, between 60th street and 64th street, Borough of Brooklyn, bearing the signature of the President of the Borough and dated October 31, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Modifying the Drainage Plan for Sewerage District No. 43-I-2, Borough of The Bronx
(Cal. No. 34).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

The President of the Borough of the Bronx offered the following resolution:

Resolved, That the Board of Estimate and Apportionment hereby approves the modified drainage plan showing location, sizes and grades of sewers in Sewerage District No. 43-I-2, Borough of The Bronx, being the design for sewers in Boston road, between Arnow avenue and Bronx and Pelham parkway; in Thwaites place and Waring avenue, between Olinville avenue and Boston road; in Mace avenue, between White Plains road and Wallace avenue; in White Plains road, between Waring avenue and the summit immediately north of Mace avenue; in Cruger avenue, between Waring avenue and the summit immediately north of Mace avenue; in Holland avenue, between the summit immediately south of Boston road and the summit immediately north of Boston road; in Barnes avenue, between Mace avenue and Boston road; in Matthews avenue, between Boston road and the summit immediately north; in Radcliff avenue, between Williamsbridge road and Arnow avenue; in Bronx Park East, between Thwaites place and Bronx and Pelham parkway; and in Reiss place and Pelham Parkway North between Bronx Park East and Barker avenue; bearing the signature of the President of the Borough, and dated September 9, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Modifying the Drainage Plan for Sewerage District No. 43-H-1, Borough of The Bronx
(Cal. No. 35).

The Secretary presented the following communication from the Assistant Commissioner of Public Works of the Borough of The Bronx and report of the Chief Engineer:

City of New York, President of the Borough of The Bronx, 3d Avenue and 177th Street, Office of the Commissioner of Public Works, March 27, 1913.

Mr. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment, 277 Broadway, City:*

Dear Sir—I forward herewith for consideration and adoption by your Board a lithograph of modified plan of drainage for sewerage district No. 43-H-1.

This plan provides for the discontinuation of the sewer in Adams street between the trunk sewer in Bronx Park avenue and Morris Park avenue, and also for a high level sewer in Morris Park avenue, between Melville street and Van Buren street, which will carry off the drainage from the block on Morris Park avenue, between Melville street and Van Buren street, and also the street drainage from Van Buren street, between Morris Park avenue and Van Nest avenue, thereby enabling us to retain the existing 18-inch pipe sewer in Morris Park avenue between Van Buren street and East 180th street.

Respectfully, F. C. RINGER, Assistant Commissioner.

Report No. 13559. January 26, 1914.

Hon. JOHN PURROY MITCHEL, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—Herewith is transmitted a communication from the Assistant Commissioner of Public Works, Borough of The Bronx, bearing date of March 27, 1913, requesting the approval of a modification in the drainage plan for Sewerage District No. 43-H-1.

Since the date when the drainage plan for this section was adopted Adams street, between Morris Park avenue and Bronx Park avenue, has been removed from the City Map. As a result of this change it has become necessary to omit the outlet sewer previously shown in this street, and to make provision for enlarging the diameter of the sewer proposed for East 180th street, between Bronx Park avenue and Morris Park avenue, as shown upon the plan now submitted, which also indicates an additional sewer in the block of Morris Park avenue, between Van Buren street and Melville street, this being intended to serve as a relief to the Morris Park avenue sewer in case it becomes overtaxed. The design has been made in such a way as to avoid the reconstruction of the sewer heretofore built in Morris Park avenue.

I see no reason why the plan should not be approved, and would recommend such action. Respectfully, NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the modified drainage plan showing location, sizes and grades of sewers in sewerage district No. 43-H-1, Borough of The Bronx, being the design for sewers in East 180th street, between Bronx Park avenue and Morris Park avenue, and in Morris Park avenue, from Van Buren street to Melville street, bearing the signature of the President of the Borough, and dated March 25, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Modifying the Drainage Plan for Sewerage District No. 42-M-2, Borough of The Bronx
(Cal. No. 36).

The Secretary presented the following communication from the Commissioner of Public Works of the Borough of The Bronx and report of the Chief Engineer:

City of New York, President of the Borough of The Bronx, 3d Avenue and 177th Street, Office of the Commissioner of Public Works, May 16, 1913.

Mr. JOSEPH HAAG, *Secretary, Board of Estimate and Apportionment, 277 Broadway, City:*

Dear Sir—I forward herewith for consideration and adoption by your Board a lithograph of modified plan of drainage for sewerage district No. 42-M-2.

The modification provides for the diverting of the drainage from the sewer in East 167th street, between West Farms road and Bryant avenue, to the sewer in Bryant avenue north of East 167th street, thus probably saving the construction of the sewer in East 167th street, between Westchester avenue and Bryant avenue, as such sewer would only be necessary as an outlet for the sewer in East 167th street, between West Farms road and Bryant avenue. Respectfully,

THOMAS W. WHITTLE, Commissioner.

Report No. 13558. January 26, 1914.

Hon. JOHN PURROY MITCHEL, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—Herewith is transmitted a communication from the Commissioner of Public Works, Borough of The Bronx, bearing date of May 16, 1913, requesting the approval of a modification in the drainage plan for Sewerage District No. 42-M-2.

This plan relates to the sewer in East 167th street, from West Farms road to Longfellow avenue, and in Bryant avenue, from East 167th street to West Farms road, and contemplates the connection of the sewer in the westerly block of the former street with the Bryant avenue sewer, it being assumed that the sewer in the easterly block of East 167th street, originally designed as an outlet, may not be required unless it should later be found that the Bryant avenue sewer is overtaxed, in which case the East 167th street sewer will serve to afford relief.

I see no reason why the plan should not be approved, and would recommend such action. Respectfully,

NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the modified drainage plan showing location, sizes and grades of sewers in Sewerage District No. 42-M-2, being a design for sewers in East 167th street, between West Farms road and Longfellow avenue, Borough of The Bronx, bearing the signature of the President of the Borough and dated May 14, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Modifying the Drainage Plan for Sewerage District No. 40-A-4, Borough of Queens
(Cal. No. 37).

The Secretary presented the following communication from the Secretary to the President of the Borough of Queens, and report of the Chief Engineer:

The City of New York, Office of the President of the Borough of Queens, Long Island City, December 16, 1913.

JOSEPH HAAG, Esq., *Secretary of the Board of Estimate and Apportionment:*

Dear Sir—By direction of President Connolly, I transmit herewith for the approval of the Board of Estimate and Apportionment amended drainage plan No. 4 of Sewerage District No. 40-A.

The attached communication from the Engineer of Design, Bureau of Sewers, addressed to Mr. Foster Crowell, Consulting Engineer, gives in detail the reasons for this amended drainage plan. Yours respectfully,

HUGH HALL, Secretary to the President.

Report No. 13556. January 24, 1914.

Hon. JOHN PURROY MITCHEL, *Mayor, Chairman of the Board of Estimate and Apportionment:*

Sir—Herewith is transmitted a communication from the Secretary to the President of the Borough of Queens, bearing date of December 16, 1913, requesting the approval of a modification in the drainage plan for Sewerage District No. 40-A.

This plan relates to the territory bounded approximately by Atlantic avenue, Bedford avenue, Jamaica avenue and Stoothoff avenue, this boundary coinciding approximately with that of an amending plan which was approved by the Board on November 20, 1913, the amendments then proposed having been designed to make the plan harmonize with recent changes made in the street system of the locality.

The Board is now informed that owing to the objection which has been raised by the property owners to the acquisition of title to Ridgewood avenue, it is proposed to change the location of the trunk sewer which was intended to traverse this street and to substitute a route which will keep it within the lines of streets which have been recognized by the property owners.

The change appears to be an unobjectionable one, and I see no reason why it should not be approved, such action being recommended.

Respectfully, NELSON P. LEWIS, Chief Engineer.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the modified drainage plan, showing location, sizes and grades of sewers in Sewerage District No. 40-A-4, being a design for sewers in the territory bounded approximately by Atlantic avenue, Bedford avenue, Jamaica avenue and Stoothoff avenue, and bearing the signature of the President of the Borough and dated December 10, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Temporary Drainage Plan for a Combined Sewer in Fletcher Street, Between a Point About 270 Feet East of St. Marys Avenue and a Point About 95 Feet West of Clifton Avenue, Borough of Richmond
(Cal. No. 38).

(At the meeting of the Board on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

LOCAL IMPROVEMENTS—BOROUGH OF BROOKLYN.

(Preliminary Authorization.)

Sewer in West 30th Street, from Surf Avenue to a Point About 360 Feet Southerly Therefrom, Borough of Brooklyn
(Cal. No. 39).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sanitary Sewer in West 37th Street, from Surf Avenue Southwardly, a Distance of About 245 Feet, Borough of Brooklyn
(Cal. No. 40).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sewer in East 36th Street, from Avenue K to Avenue L, Borough of Brooklyn
(Cal. No. 41).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sewers in Avenue L, from East 7th Street to East 8th Street, and in East 7th Street, from Avenue L to Avenue M, Borough of Brooklyn
(Cal. No. 42).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Regulating and Grading 78th Street, from 17th Avenue to 18th Avenue, Borough of Brooklyn
(Cal. No. 43).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Regulating and Grading Bay 31st Street, from Cropsey Avenue to 86th Street, Borough of Brooklyn (Cal. No. 44).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Curbing and Flagging Ovington Avenue, from 11th Avenue to 12th Avenue, Borough of Brooklyn (Cal. No. 45).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Recurbing and Paving 62d Street, 64th Street, 65th Street and 66th Street, from 20th Avenue to Bay Parkway, and 67th Street, from 21st Avenue to Bay Parkway, Borough of Brooklyn (Cal. No. 46).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Curbing and Paving 63d Street, from 20th Avenue to 21st Avenue, Borough of Brooklyn (Cal. No. 47).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Paving Bay 14th Street, from Bath Avenue to Cropsey Avenue, Borough of Brooklyn (Cal. No. 48).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Paving Lewis Place, from Coney Island Avenue to Stratford Road, Borough of Brooklyn (Cal. No. 49).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Paving Matthews Place, from Coney Island Avenue to Stratford Road, Borough of Brooklyn (Cal. No. 50).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Paving Carroll Street, from Bedford Avenue to Rogers Avenue, Borough of Brooklyn (Cal. No. 51).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Paving West 30th Street, from Mermaid Avenue to Surf Avenue, Excluding the Right-of-Way of the New York and Coney Island Railroad Company, Borough of Brooklyn (Cal. No. 52).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

LOCAL IMPROVEMENTS—BOROUGH OF THE BRONX.

(Preliminary Authorization.)

Regulating and Grading Davidson Avenue, from Evelyn Place to a Point About 43 Feet North of West 180th Street, Borough of The Bronx (Cal. No. 53).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Paving Kelly Street, from Intervale Avenue Northwardly to East 163d Street, Borough of The Bronx (Cal. No. 54).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

LOCAL IMPROVEMENTS—BOROUGH OF QUEENS.

(Preliminary Authorization.)

Amending the Resolution Granting Preliminary Authorization for House Connecting Drains in Payntar Avenue, from Sherman Street to Crescent Street, and for Constructing Receiving Basins on Payntar Avenue, at all Four Corners of Van Alst Avenue and at the Northerly and Westerly Corners of Marion Street, Borough of Queens (Cal. No. 55).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

House Connecting Drains in Lefferts Avenue, from the Rockaway Road to Liberty Avenue, Borough of Queens (Cal. No. 56).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sewers in Hancock Street, from Vernon Avenue to the Crown North of Pierce Avenue; in Graham Avenue, from Hancock Street to the Boulevard; and in Sanford Street, from Hancock Street to the Boulevard, Borough of Queens (Cal. No. 57).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Regulating and Grading 7th Avenue, from Washington Avenue to Graham Avenue, Borough of Queens (Cal. No. 58).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Regulating and Grading Ditmars Avenue, from Astoria Avenue to Frigate Street, Borough of Queens (Cal. No. 59).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Grading, Curbing, Flagging and Paving Woodbine Street, from Seneca Avenue to Woodward Avenue, Borough of Queens (Cal. No. 60).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Regulating, Grading and Paving Hopkins Avenue, from Grand Avenue to Main Street, Borough of Queens (Cal. No. 61).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

LOCAL IMPROVEMENTS—BOROUGH OF BROOKLYN.

(Final Authorization.)

Regrading, Curbing and Flagging Lott Avenue, from Bristol Street to Rockaway Avenue, Brooklyn (Cal. No. 62).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Regulating and Grading Logan Street, from New Lots Avenue to Vienna Avenue, Brooklyn (Cal. No. 63).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Regulating, Grading and Paving Newton Street, from Manhattan Avenue to a Point About 80 Feet West of Graham Avenue, Brooklyn (Cal. No. 64).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sewer in 15th Avenue, from 38th Street Northwardly to the Right of Way of the Brooklyn Rapid Transit Railroad, Brooklyn (Cal. No. 65).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sewers in 61st Street, from 16th Avenue to 17th Avenue; 62d Street, from 15th Avenue to 16th Avenue; 63d Street, from 15th Avenue to 17th Avenue; 66th Street, from 15th Avenue to 16th Avenue; 67th Street, from New Utrecht Avenue to 16th Avenue, and 16th Avenue, from 60th Street to 66th Street, Brooklyn (Cal. No. 66).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Paving Union Street, from Utica Avenue to Rochester Avenue, Brooklyn (Cal. No. 67).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Paving East 14th Street, from Avenue O to Kings Highway, Brooklyn (Cal. No. 68).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Paving 6th Avenue, from 75th Street to 79th Street, Brooklyn (Cal. No. 69).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sewer in Crown Street, from Bedford Avenue to Rogers Avenue, Brooklyn (Cal. No. 70).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sewers in Surf Avenue, from West 19th Street to West 27th Street; West 20th Street, from Surf Avenue to Mermaid Avenue; West 21st Street, from Surf Avenue to Mermaid Avenue, and West 23d Street, from Surf Avenue to a Point in the Atlantic Ocean About 1,000 Feet South of Surf Avenue, Brooklyn (Cal. No. 71).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sewers in 65th Street, South Side, from 18th Avenue to 19th Avenue, and 19th Avenue, from 65th Street to 67th Street, Brooklyn (Cal. No. 72).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

LOCAL IMPROVEMENTS—BOROUGH OF THE BRONX.

(Final Authorization.)

Paving and Curbing Concord Avenue, from East 142d Street to East 149th Street, The Bronx (Cal. No. 73).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sewers in Storrow Street, from Benedict Avenue to McGraw Avenue, and McGraw Avenue, from Storrow Street to Pugsley Avenue, The Bronx (Cal. No. 74).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Sewers in Storrow Street, from the Plaza at Westchester Avenue to Benedict Avenue, and Benedict Avenue, from Storrow Street to Pugsley Avenue, The Bronx (Cal. No. 75).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

LOCAL IMPROVEMENTS—BOROUGH OF QUEENS.

(Final Authorization.)

Regulating and Grading Hughes Street, from Fresh Pond Road to Fremont Street, Queens (Cal. No. 76).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Regulating and Grading Anable Avenue, from Van Dam Street to New Calvary Cemetery, Queens (Cal. No. 77).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller the matter was again laid over for two weeks (February 13, 1914).

Grading and Curbing 11th Avenue, from Grand Avenue to Newtown Road, Queens. (Cal. No. 78).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller the matter was again laid over for two weeks (February 13, 1914).

Paving Washington Avenue, from 5th Avenue to 9th Avenue, Queens (Cal. No. 79).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller the matter was again laid over for two weeks (February 13, 1914).

Paving 2d Avenue, from Potter Avenue to Ditmars Avenue, Queens (Cal. No. 80).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller the matter was again laid over for two weeks (February 13, 1914).

Paving East Avenue, from 9th Street to Nott Avenue, Queens (Cal. No. 81).

(At the meeting of the Board held on January 16, 1914, this matter was laid over for two weeks.)

On motion of the Comptroller, the matter was again laid over for two weeks (February 13, 1914).

Petition for Change of Grade Damage in Shaw Avenue, Between Jamaica and Atlantic Avenues, Borough of Queens (Cal. No. 82).

(At the meeting of the Board on January 16, 1914, this matter was laid over for two weeks.)

Mr. H. C. Underhill, Mrs. B. Norman and Mr. L. Jaeger appeared in support of the petition presented at the meeting of the Board on January 16, 1914.

On motion of the President of the Board of Aldermen, the matter was referred to the Committee on Assessments when appointed, for report in two weeks (February 13, 1914).

Discontinuing the Proceeding in the Matter of Altering the Grade Crossing at Norwood Avenue and Other Crossings on the Atlantic Avenue Division of the Long Island Railroad Company, Boroughs of Brooklyn and Queens (Cal. No. 83).

(At the meeting of the Board on January 9, 1914, the original order of the Public Service Commission was presented and ordered printed in the minutes and filed.)

The Secretary presented the following, which were ordered printed in the minutes and filed:

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, January 27, 1914.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment, 277 Broadway, New York City:

Dear Sir—Transmitted herewith and hereby served upon The City of New York is a certified copy of an order in Case No. 1672, adopted by the Commission at its meeting on January 27, 1914, amending the order discontinuing the proceeding in regard to the Norwood avenue and other grade crossings of the Long Island Railroad Company on its Atlantic Avenue Division, so as to except from the order the matter of the grade crossing at Railroad avenue.

Please acknowledge receipt of the enclosure. Yours very truly,

TRAVIS H. WHITNEY, Secretary.

At a stated meeting of the Public Service Commission for the First District, duly held at its office, No. 154 Nassau street, in the Borough of Manhattan, City and State of New York, on the 27th day of January, 1914.

Present—Edward E. McCall, Chairman; Milo R. Maltbie, John E. Eustis, George V. S. Williams, Commissioners.

Case No. 1672—Order Amending Discontinuance Order.

In the matter of the hearing on the motion of the Commission on the question of alterations and changes in the following grade crossings with tracks of the Atlantic Avenue Division of the Long Island Railroad Company, in The City of New York, namely: Norwood avenue, Logan avenue, Euclid avenue, Crescent street, Railroad avenue, Enfield or Elderts lane, Rockaway Plank Road, Shaw avenue, Benedict avenue, Woodhaven avenue, Lefferts avenue, Vanderveer place, Napier avenue, Union place, Wyckoff avenue, Grant avenue and Napier place, Greenwood avenue, Elm and Linden streets, Jefferson avenue, Johnson avenue, Beech street.

MEMORANDUM OF PUBLIC IMPROVEMENT MATTERS PENDING IN COMMITTEE, WITH REASSIGNMENTS TO COMMITTEES CREATED JANUARY 23 AND 30, 1914.

Subject and Date of Reference.	Existing Committee.	New Assignment.
Removal of encroachments on 59th street, between 2d avenue and 5th avenue, Manhattan. (July 11, 1912).....	President, Borough of Manhattan; President, Board of Aldermen; President, Borough of The Bronx..... Committee on City Plan.	
Discontinuance of proceeding for acquiring title to West 168th street, from Amsterdam avenue to Jumel place, Borough of Manhattan.....	President, Board of Aldermen; President, Borough of The Bronx; President, Borough of Manhattan..... Committee on Assessments.	
(Referred to Committee on March 27, 1913. On June 26, 1913, the Corporation Counsel was directed to request the Commissioners to reopen the matter of the awards, and the Committee was requested to consult with the Corporation Counsel as to the progress of the proceeding.)		
Acquiring title to a public park at Inwood Hill, Borough of Manhattan. (May 15, 1913).....	Corporate Stock Budget Committee..... To be discharged.	
Improvements in tracks and structures of New York Central & Hudson River Railroad on west side of City (including elimination of grade crossing at West 79th street and improvement of traffic conditions in West 79th street, between Broadway and North River. (July 31, 1913).....	President, Borough of Manhattan; Committee on Port and Terminal Facilities; President, Borough of The Bronx; Chief Engineer.....	
Extension of Riverside drive, from its present terminus at West 158th street to Spuyten Duyvil Creek, Borough of Manhattan. (July 31, 1913).....	President, Borough of Manhattan; Committee on City Plan.	
Regulating and grading West 134th street, between Broadway and 12th avenue, and constructing a viaduct in this street, between Riverside drive and a point 200 feet east of 12th avenue, Manhattan. (July 31, 1913).....	Riverside Drive Committee (as above)..... Committee on City Plan and Committee on Assessments.	
Laying out extensions (2) of Highbridge Park, Borough of Manhattan (commonly referred to as "Fort George Park"). (September 25, 1913).....	Comptroller; President, Borough of Manhattan; Chief Engineer..... To be discharged.	
Reapportioning the cost of acquiring title to the widening of Canal street, at its eastern junction with the Bowery, Borough of Manhattan.....	Comptroller; President, Board of Aldermen; President, Borough of Richmond. Existing Special Committee continued.	
(Referred to Committee on October 2, 1913. Hearing to be held on proposed re-apportionment on February 13, 1914.)		
Acquiring title to the lands laid out as an approach or plaza to the Queensboro Bridge, Borough of Manhattan. (October 2, 1913).....	Comptroller; President, Board of Aldermen; President, Borough of Richmond. Committee on Assessments.	
Fixing roadway and sidewalk widths on easterly side of Varick street, at St. John's Chapel, Borough of Manhattan. (December 24, 1913).....	Comptroller; President, Borough of Manhattan..... Committee on City Plan.	
Laying out and acquiring title to a public park on the site of the Battle of Long Island. (June 15, 1911).....	President, Borough of Brooklyn; President, Borough of The Bronx..... To be discharged.	
Laying out and acquiring title to a new street (board walk) along the ocean front at Coney Island, Brooklyn. (May 13, 1910).....	Comptroller; President, Board of Aldermen; President, Borough of Brooklyn. Committee on City Plan.	
Relocation of railroad tracks in McCarron Park, and release of portions not needed for park purposes, Borough of Brooklyn. (May 1, 1913).....	President, Board of Aldermen; President, Borough of Brooklyn; Chief Engineer. Committee on City Plan.	
Widening Fulton street, between Flatbush avenue and Ashland place; and Ashland place, between Fulton street and a point 91 feet north of Lafayette avenue, Brooklyn.....	Transit Conference Committee..... Committee on City Plan.	

Subject and Date of Reference.	Existing Committee.	New Assignment.
(Referred to Committee on June 12 1913, and laid over pending report December 4, 1913.) Laying out an extension of 1st avenue, from 39th street to high water line at 40th street, and of 2d avenue, from 26th street to Hamilton avenue, Borough of Brooklyn, and acquiring title to said extensions.....	Committee on South Brooklyn Terminal.. Committee on Port and Terminal Facilities.	
(Laid over on July 10, 1913, pending report of Committee on South Brooklyn Terminal.) Closing Prospect Park West, between 20th street and 21st street; 10th avenue, between Gravesend avenue and old Town line; 21st street, between 7th avenue and Gravesend avenue, and 22d and 23d streets, between 7th avenue and old Town line, Borough of Brooklyn.) (November 20, 1913).....	Comptroller, President, Board of Aldermen; President, Borough of Brooklyn. Committee on City Plan.	
Reapportionment of the cost of acquiring land for widening the Flatbush Avenue Extension, between Nassau street and Concord street, Borough of Brooklyn. (January 16, 1914).....	Comptroller; President, Board of Aldermen; President, Borough of Richmond. Committee on Assessments.	
Petition for relief from assessment in the proceeding for acquiring title to East 210th street, from Jerome avenue to Wayne avenue, and to Wayne avenue and Tryon avenue, from Reservoir Oval West to Gun Hill road, Borough of The Bronx. (June 13, 1912).....	President, Board of Aldermen; President, Borough of Brooklyn; President, Borough of The Bronx Committee on Assessments.	
Proposed agreement between the New York Central, the New Haven, The City of New York and the City of Yonkers, providing for a highway bridge connecting East 241st street with Wakefield avenue, Yonkers. (March 6, 1913).....	Comptroller; Corporation Counsel Committee on Assessments.	
Laying out and acquiring title to a public park bounded by Van Alst avenue, 10th street, East avenue and 9th street, Borough of Queens. (March 11, 1910).....	Comptroller; President, Board of Aldermen; President, Borough of Queens.. Committee on City Plan.	
Acquiring title to the widening of Crescent street, from South Jane street to 13th street, and of Nott avenue, from Hunter avenue to Jackson avenue, Borough of Queens. (October 31, 1912).....	Comptroller; President, Board of Aldermen; President, Borough of Queens... Committee on Assessments.	
Laying out a street or parkway as an extension of Eastern parkway, Brooklyn, to the westerly boundary of Forest Park, Queens. (November 21, 1912).....	President, Borough of Manhattan; President, Borough of Brooklyn; President, Borough of Queens Committee on City Plan.	
Establishing the lines and grades of Jackson avenue (Broadway), between Cemetery lane and the City line, Borough of Queens, and assessing cost of same. (November 21, 1912).....	President, Borough of Manhattan; President, Borough of Brooklyn; President, Borough of Queens Committee on City Plan.	
Amending the proceeding for acquiring title to Ridgewood avenue, from the Brooklyn Borough line to Van Wyck avenue, Borough of Queens. (November 21, 1912).....	President, Borough of Manhattan; President, Borough of Brooklyn; President, Borough of Queens Committee on Assessments.	
Changing the lines of Rockaway boulevard (road), between the Borough line and Ocean avenue, and laying out this street between Ocean avenue and the Conduit lands, Borough of Queens. (November 21, 1912).....	President, Borough of Manhattan; President, Borough of Brooklyn; President, Borough of Queens Committee on City Plan.	
Petitions for relief from assessment in the proceeding for acquiring title to Grandview avenue, from Metropolitan avenue to Stanhope street, and from Linden street to Forest avenue, Borough of Queens.....	Comptroller; President, Borough of The Bronx; President, Borough of Brooklyn Committee on Assessments.	
(Referred to Committee on May 22, 1913. A report by the former President of The Bronx relative to the cemetery problem will be considered by the Board on February 6, 1914.) Changing the grades of Greenpoint avenue, between Star avenue and Newtown Creek; of Review avenue, between Pearsall street and Howard avenue, and of Van Dam street, between Pearsall street and Review avenue, Borough of Queens. (December 4, 1913).....	President, Borough of Queens; President, Borough of Brooklyn; Chief Engineer. Committee on City Plan.	
Amending the street plan for the territory designated as Section 30 of the Final Maps, Borough of Queens, relating more particularly to the width of Cypress Hills road. (December 31, 1913).....	President, Borough of Queens; President, Borough of Brooklyn; Comptroller.... Committee on City Plan.	
Decreasing the width of Barton avenue, Adams avenue and Zealand avenue, between Richmond road and North Railroad avenue, Borough of Richmond, from 50 to 40 feet. (October 31, 1912).....	President, Borough of Richmond; Chief Engineer Committee on City Plan.	
Grading and paving Belmont place, between Vine street and Fort place, Borough of Richmond. (Curbing and recurring was not included in the resolution of the Local Board, as the Borough President proposed to charge that part of the work to the Repaving Bond Account. The advisability of this policy was questioned.) (April 24, 1913).....	Comptroller; Chief Engineer; Corporation Counsel Committee on Assessments.	
Proposed amendment of the Charter so as to provide for permanent Boards of Compensation Commissioners. (October 19, 1911).....	The Mayor; President, Board of Aldermen; President, Borough of The Bronx Charter Revision Committee.	
Removal of encroachments and encumbrances from all public streets. (November 2, 1911).....	The Mayor; President, Borough of Manhattan; President, Borough of The Bronx Committee on City Plan.	
General question of the distribution of the expense of acquiring title to parks and boulevards. (November 21, 1912).....	President, Borough of Manhattan; President, Borough of Brooklyn; President, Borough of Queens Committee on Assessments.	
Policy to be followed in acquiring title to streets in which trunk sewers are to be located	President, Borough of Manhattan; President, Borough of Brooklyn; President, Borough of Queens Committee on Assessments.	
(Referred to the Committee on November 21, 1912, in connection with petitions for relief from assessment for acquiring title to Panama street, Stanley avenue and Shenandoah street, Borough of Queens. Upon report of Committee on August 28, 1913, these petitions were denied, but the general question was not covered in the Committee's report.) Regulation of the height, size and arrangement of buildings (including height of buildings on 5th avenue)	President, Borough of Manhattan; President, Borough of Brooklyn; President, Borough of The Bronx..... Committee on City Plan.	
(The Committee has presented a report in this matter, but no action has yet been taken. It will appear on the Calendar for February 6, 1914.) March 6, 1913.		

The President of the Board of Aldermen moved that the foregoing matters be assigned to the new Committees, as suggested in the memorandum.
Which motion was carried unanimously.

The following Public Improvement matter, not on the Calendar for this day, was considered by unanimous consent:

Regulating the Height, Size and Arrangement of Buildings in the City (No. 86).

The Secretary presented a communication from the Secretary of the Washington Square Association, endorsing the report of the Committee on Height of

Buildings, and requesting 250 copies for distribution to the members of the association.

On motion, the matter was referred to the Committee on City Plan.

FRANCHISE MATTERS.

Reassignment of Franchise Matters, Pending in Committee, to Standing Committees of the Board Created January 23, 1914 (See Financial Calendar No. 80).

The Secretary presented a memorandum of all Franchise Matters pending in Committee, with suggested assignments to appropriate Committees, as follows:

MEMORANDUM OF FRANCHISE MATTERS, PENDING IN COMMITTEE, WITH REASSIGNMENTS TO COMMITTEES CREATED JANUARY 23, 1914.

Subject and Date of Reference.	Existing Committee.	New Assignment.
Grant of Franchises (February 4, 1910).....	Franchise Committee: The Mayor, Comptroller, and President, Board of Aldermen	Committee on Franchises.
Rapid Transit Construction (January 14, 1910).....	Transit Committee: The Mayor, Comptroller, and President, Board of Aldermen	Committee on Transit.
Future rapid transit extensions and contracts for construction, etc. (January 19, 1911).....	Transit Conference Committee: President, Borough of Manhattan; President, Borough of The Bronx; President, Borough of Richmond.....	Committee on Transit.
Grant of franchise to Nassau Electric Railroad Company to construct, etc., railway on 8th, 7th and Stillwell avenues and 79th street, Brooklyn (July 11, 1912).....	Franchise Committee: The Mayor, Comptroller, and President, Board of Aldermen	Committee on Franchises.
Modification of contract with Manhattan Bridge Three Cent Line, granting said company franchise to operate street surface railway on Manhattan Bridge and its approaches (November 20, 1913).....	Franchise Committee: The Mayor, Comptroller, and President, Board of Aldermen	Committee on Franchises.
General policy of stage coach operation in The City of New York, including petitions of People's Five Cent Bus Corporation and Manhattan Motor Bus Company for franchises (November 13, 1913).....	Franchise Committee: The Mayor, Comptroller, and President, Board of Aldermen	Committee on Franchises.
Communication from North Side Improvement Association submitting a plan for a crosstown subway in Brooklyn under Manhattan avenue to Union avenue to Roebling street to Taylor street, etc. (October 2, 1913).....	Transit Conference Committee: President, Borough of Manhattan; President, Borough of The Bronx; President, Borough of Richmond.....	Committee on Transit.
Petition of Manhattan Fire Alarm Company for franchise to install, etc., conduits and appliances under the streets of the City for the operation of telephone and telegraph systems for transmitting calls and signals for electrical or other protection service (November 13, 1913).....	Franchise Committee: The Mayor, Comptroller, and President, Board of Aldermen	Committee on Franchises.
Report of Bureau of Franchises in matter of application of 145th Street Crosstown Railroad Company for legalization of present operation of railway upon 145th street, Manhattan (December 19, 1912).....	Franchise Committee: The Mayor, Comptroller, and President, Board of Aldermen	Committee on Franchises.

Subject and Date of Reference.	Existing Committee.	New Assignment.
Communication from Comptroller relative to removal of elevated structure from lower Fulton street, Brooklyn, and relocation on Adams street, in connection with new terminus of Brooklyn Bridge, and establishment of Civic Centre (March 27, 1913) ..	Transit Conference Committee: President, Borough of Manhattan; President, Borough of The Bronx; President, Borough of Richmond.....	Committee on Transit and Committee on City Plan.
Communication from Brooklyn League relative to through elevated service on Manhattan Bridge, and investigation of question of increased transportation (May 29, 1913) ..	Transit Committee: The Mayor, Comptroller and President, Board of Aldermen	Committee on Transit.
Communication from Chamber of Commerce, Borough of Queens, requesting Board to consider matter of granting a franchise to the Brooklyn, Queens County and Suburban Railroad Company to operate, etc., a street surface railway on Metropolitan avenue, in the Borough of Queens (January 9, 1914) ..	Franchise Committee: The Mayor, Comptroller, and President, Board of Aldermen	Committee on Franchises.
Report of Bureau of Franchises on application of Jay Street Connecting Railroad Company for extension of time to complete construction and place in operation railway tracks in the vicinity of Jay, John, Pearl and Plymouth streets, Brooklyn (June 19, 1913) ..	Franchise Committee: The Mayor, Comptroller, and President, Board of Aldermen	Committee on Franchises.

The President of the Board of Aldermen moved that the foregoing matters be assigned to the new Committees, as suggested in the memorandum.

Which motion was carried unanimously.

FINANCIAL MATTERS.

Department of Finance—Establishment of the Position of Examiner (Cal. No. 1).

The Secretary presented:

Communication from the Comptroller requesting the establishment in the Department of Finance of the grade of position of Examiner, at \$4,000 per annum, for one additional incumbent.

(On January 23, 1914 (Cal. No. 2), the above communication was laid over to this meeting.)

Which was laid over one week (February 6, 1914).

Department of Correction—Establishment of the Grade of Position of Officer (Cal. No. 2).

The Secretary presented:

Communication from the Commissioner of Correction requesting the establishment of the grade of position of Officer in said Department, to cover the different types of work in the Boys' Reformatory.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President, Board of Aldermen.

Twelfth New York Infantry. N. G., N. Y.—Retirement of Anthony B. VanHeusen, Laborer (Cal. No. 3).

The Secretary presented:

Communication from Lieut.-Col. A. D. Porter, Twelfth New York Infantry, N. G., N. Y., requesting action on the application of Anthony B. Van Heusen, Laborer, in the Twelfth Regiment Armory, for retirement, referred to the Committee on Salaries and Grades on October 24, 1912.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President, Board of Aldermen.

Carnegie Libraries, Borough of Brooklyn—Acquisition of Sites (Cal. No. 4).

The Secretary presented:

Communication from the President, Brooklyn Public Library, requesting, on behalf of the Carnegie Committee for the Borough of Brooklyn, the acquisition by purchase of sites for library buildings in the Ridgewood and Marcy avenue sections of Brooklyn.

Which was referred to the Comptroller.

Department of Education—Appropriation for Construction of Building (Cal. No. 5).

The Secretary presented:

Communication from the Homestead Civic Association, urging an appropriation for the construction of a public school building on the site acquired by the City on Ferry and Shipley streets, Woodhaven, Borough of Queens.

Which was referred to the Committee on Corporate Stock Budget, consisting of the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Brooklyn and The Bronx.

Department of Docks and Ferries—Development of Jamaica Bay (Cal. No. 6).

The Secretary presented:

Communication from the Woodside Improvement Association requesting the Board to take action toward the completion of the improvement and development of Jamaica Bay.

Which was referred to the Committee on Port and Terminal Facilities, consisting of the Comptroller, the Presidents of the Boroughs of Manhattan and Brooklyn, and the Commissioner of Docks.

Department of Bridges—Issue of Corporate Stock (Cal. No. 7).

The Secretary presented:

Communication from the Progressive Club of the 18th Assembly District, Borough of Manhattan, requesting the Board to appropriate the necessary funds for the installation and operation of elevators in the towers of Queensboro Bridge, under the jurisdiction of the Department of Bridges.

Which was referred to the Committee on Corporate Stock Budget, consisting of the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Brooklyn and The Bronx.

Police Department—Approval of Form of Contract, Etc. (Cal. No. 8).

The Secretary presented:

Communication from the Comptroller withdrawing his report presented to the Board at the meeting held January 23, 1914, and laid over for one week, recommending the approval of the form of contract, etc., for lighting fixtures for the 8th Precinct Police Station House, at 20 Beach street, Manhattan.

Which was ordered filed and the Secretary directed to return report to the Comptroller.

Pension Legislation Affecting Employees in the Service of The City of New York (Cal. No. 9).

The Secretary presented the following, which was ordered printed in the minutes and filed:

State of New York, Lieutenant Governor's Room, Albany, January 22, 1914.

JOSEPH HAAG, Esq., 27 Broadway, New York City:

Dear Sir—I am in receipt of your favor of January 20, in which you enclosed copy of resolution adopted by your Board requesting the Legislature to defer consideration of any proposed pension legislation affecting employees in the service of The City of New York until the Committee on Pensions of The City of New York has completed its inquiry and reported its findings and recommendations.

I shall be glad to refer your communication to the Chairman of the Cities Committee of the Senate, to which Committee such legislation would be referred upon introduction in the Senate, to the end that legislation of this character may be held up pending this report. Very truly yours,

ROBERT WAGNER.

Proposed Amendment to Section 419 of the Charter (Cal. No. 10).

The Secretary presented:

Communication from the General Contractors' Association of New York, submitting draft of proposed amendment to section 419 of the Charter, in relation to contracts for public improvements, providing for an extension of time for the completion of a contract for a public work by the Borough President or head of Department under whose supervision the work is being done, for a good and sufficient cause.

Which was referred to the Committee on the Revision of the City Charter, consisting of the President of the Board of Aldermen, the Mayor, three members of the Board of Aldermen, to be designated by that body, the City Chamberlain, the Corporation Counsel and seven citizens, of whom three shall be named by the Mayor

and four by the members of the Board of Estimate and the Board of Aldermen, serving on the Committee.

Mayor Gaynor Memorial Association—Appointment of Special Committee of the Board of Estimate and Apportionment to Consider Plans Relative to the Memorial of the Late Mayor (Cal. No. 11).

The Secretary presented:

Communication from the Executive Secretary of the Mayor Gaynor Memorial Association, requesting the Mayor to appoint a Special Committee of the Board of Estimate and Apportionment to consider plans by which the City's memorial to the late Mayor Gaynor may be placed at the Brooklyn and Manhattan terminals of the Brooklyn Bridge.

The President of the Board of Aldermen moved that the Mayor appoint a Committee, as requested, which motion was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Mayor then appointed the President of the Board of Aldermen, the President of the Borough of Brooklyn and the President of the Borough of Manhattan to act as the Committee.

Department of Docks and Ferries—Acquisition of Property in the Borough of Manhattan (Cal. No. 12).

(On December 18, 1913, after a public hearing, the Board adopted a resolution authorizing the acquisition by condemnation of said property.)

The Secretary presented the following:

Commissioners of the Sinking Fund of The City of New York, January 21, 1914.

JOSEPH HAAG, Esq., Secretary, Board of Estimate and Apportionment:

Dear Sir—I transmit herewith a certified copy of resolution adopted by the Commissioners of the Sinking Fund at meeting held this day, rescinding resolution adopted December 17, 1913, consenting to the institution of condemnation proceedings for the acquisition of water-front property lying about 48 feet westerly of Clinton street and the wharf property lying about 88 feet easterly of Clinton street, including Pier (old) 49. Very truly yours, JOHN KORB, Jr., Secretary.

Resolved, That the resolution adopted at the public hearing held on December 17, 1913, approving and consenting to the institution of condemnation proceedings for the acquisition of water-front property lying about 48 feet westerly of Clinton street and wharf property lying about 88 feet easterly of Clinton street, including Pier (old) 49, as requested by the Commissioner of Docks on November 13, 1913, be and the same is hereby rescinded.

A true copy of resolution adopted by the Commissioners of the Sinking Fund January 21, 1914.

JOHN KORB, Jr., Secretary.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment December 18, 1913, which reads as follows:

"Resolved, That the Board of Estimate and Apportionment hereby authorizes and assents to the institution of condemnation proceedings for the acquisition of the following described property located between Jefferson and Montgomery streets, East River, Borough of Manhattan, being more particularly noted as the wharf properties lying about 48 feet westerly of Clinton street, and the wharf properties lying about 88 feet east of Clinton street, and including Pier (old) No. 49, which property is bounded and described as follows:

"Technical Description of Wharf Properties to be Acquired by The City of New York Between Jefferson and Montgomery Streets, East River, Borough of Manhattan, Being More Particularly Noted as the Wharf Properties Lying About Forty-eight Feet Westerly of Clinton Street and the Wharf Properties Lying About Eighty-eight Feet East of Clinton Street, and Including Pier (Old) Number Forty-nine.

"All the wharfage right, terms, easements, emoluments and privileges not now owned by The City of New York, and appurtenant to the following described piers and bulkheads, situated on the East River, Borough of Manhattan, City of New York, viz:

Parcel "A."

"The bulkhead, dock or wharf property situated westerly of Clinton street, and lying between the easterly line of wharf property acquired by The City of New York from Mary Bell and the westerly line of wharf property acquired by The City of New York from James Keese, described as follows:

"Beginning at a point in the present bulkhead in the vicinity of the southerly line of South street at its intersection with the easterly line of the wharf property acquired by The City of New York from Mary Bell by deed dated September 15, 1900, said point being where a line drawn in a southerly direction and parallel with the westerly line of Clinton street and distant westerly therefrom along the southerly line of South street about one hundred and twenty feet (120 feet) would intersect said bulkhead and running thence easterly and along said bulkhead a distance of about seventy-two and eighteen one-hundredths feet (72.18 feet) to a point where said bulkhead would be intersected by the westerly line of the wharf property acquired by The City of New York from James Keese by deed dated March 27, 1901, said point being where a line drawn in a southerly direction and parallel with the westerly line of Clinton street and distant westerly therefrom along the southerly line of South street forty-eight feet (48 feet) would intersect said bulkhead.

Parcel "B."

"The bulkhead, dock or wharf property situated easterly of Clinton street, and lying between the easterly line of wharf property acquired by The City of New York under condemnation proceedings confirmed May 6, 1901, and the westerly side of Pier (old) No. 49, described as follows:

"Beginning at a point in the present bulkhead in the vicinity of the southerly line of South street at its intersection with the easterly line of the wharf property acquired by The City of New York under condemnation proceedings confirmed May 6, 1901, said point being at the intersection of the said bulkhead with a line drawn in a southerly direction and parallel with the westerly line of Montgomery street at a point in the southerly line of South street distant about eighty-eight feet (88 feet) easterly along said southerly line of South street from its intersection with the southerly prolongation of the easterly line of Clinton street, and running thence easterly and along said bulkhead a distance of about twenty-nine and three tenths feet (29.3 feet) to its intersection with the westerly side of Pier (old) No. 49, as said pier existed before widening.

Parcel "C."

"The bulkhead, dock or wharf property situated easterly of Clinton street and lying between the easterly side of Pier (old) No. 49, and the westerly line of wharf property acquired by The City of New York from the New York, New Haven & Hartford Railroad Company, by deed dated August 8, 1903, described as follows:

"Beginning at a point in the present bulkhead in the vicinity of the southerly line of South street at its intersection with the easterly side of Pier (old) No. 49, as said pier existed before widening, and running thence easterly and along

said bulkhead a distance of about thirty-one and forty-eight one-hundredths feet (31.48 feet) to its intersection with the westerly line of the wharf property acquired by The City of New York from the New York, New Haven & Hartford Railroad Company by deed dated August 8, 1903, said last mentioned point being where a line drawn in a southerly direction and parallel with the westerly line of Montgomery street and distant westerly therefrom along the southerly line of South street about two hundred and seventy-six and five-tenths feet (276.5 feet) would intersect said bulkhead.

Parcel "D."

"Pier (old) No. 49, East River, as it existed before widening, situated between Clinton and Montgomery streets, and bounded and described as follows:

"Beginning at a point in the present bulkhead in the vicinity of the southerly line of South street at its intersection with the westerly side of Pier (old) No. 49, East River, as said pier existed before widening, said point being distant about twenty-nine and three-tenths feet (29.3 feet) easterly along said bulkhead from its intersection with the easterly line of the wharf property acquired by The City of New York under condemnation proceedings commenced May 6, 1901, and running thence easterly and along the northerly or inner end of said pier and along said bulkhead in the rear of same a distance of thirty-five and one-tenth feet (35.1 feet) to a point in said bulkhead where the easterly side of said pier as it existed before widening would intersect the same; thence southerly, outshore and along the easterly side of said pier as it existed before widening, a distance of three hundred and twenty-six and thirty-four one-hundredths feet (326.34 feet) to its intersection with the southerly or outer end of said pier as it existed before extension; thence westerly and along the southerly or outer end of said pier as it existed before extension, a distance of thirty-five and two-tenths feet (35.2) to its intersection with the westerly side of said pier as it existed before widening, and thence northerly, inshore and along the westerly side of said pier as it existed before widening, a distance of three hundred and twenty-three and ninety-seven one-hundredths feet (323.97 feet) to the point or place of beginning.

"Together with all right, title and interest in and to said pier or any portion thereof not now owned by The City of New York.

"—which property is assessed for the year 1914, as shown by the Books of Record on file in the office of the Department of Taxes and Assessments, at \$117,000."

—be and the same is hereby rescinded.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Board of Estimate and Apportionment, Efficiency and Budget Advisory Staff—Modification of Schedule (Cal. No. 13).

The Secretary presented the following:

City of New York, Board of Estimate and Apportionment, Office of the Secretary, 277 Broadway, January 6, 1914.

To the Board of Estimate and Apportionment, City of New York:

Gentlemen—We hereby request modification of the 1914 schedule for your Board entitled, "Salaries Regular Employees, No. 29, Efficiency."

The only changes proposed are the substitution of an Assistant Foreman, at \$1,200 per annum, and a Sewer Cleaner, at \$1,200, for the two positions of Efficiency Examiner, at the rate of \$1,500 per annum. A similar modification was approved for the 1913 schedule by your Board on December 11, 1913. The request, therefore, is to make the schedule conform to existing conditions.

The decrease of \$600 is to be scheduled as "Unassigned."

The adoption of the attached resolution will approve the modification.

Respectfully,

WM. A. PRENDERGAST, Comptroller, as Chairman, Budget Committee.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Board of Estimate and Apportionment for the year 1914, as follows:

BOARD OF ESTIMATE AND APPORTIONMENT.

Personal Service, Salaries, Regular Employees.

29 Efficiency—			
Efficiency Engineer	\$6,000 00		
Efficiency Engineer	5,000 00		
Efficiency Engineer	4,000 00		
Efficiency Accountant	2,100 00		
Associate Efficiency Engineer, 2 at \$2,700	5,400 00		
Chief Efficiency Examiner	3,500 00		
Efficiency Examiner, 2 at \$1,800	3,600 00		
Sewer Cleaner (A. S. I., \$200)	1,200 00		
Assistant Foreman (A. S. I., \$200)	1,200 00		
Draftsman	1,500 00		
Clerk	1,200 00		
Clerk	900 00		
Clerk	300 00		
Stenographer and Typewriter	1,500 00		
Stenographer and Typewriter	1,200 00		
Balance unassigned (A. S. I.)	600 00		
			\$39,200 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Docks and Ferries—Acquisition of Property Between 57th and 61st Streets, Brooklyn (Cal. No. 14).

The Secretary presented:

Communication from the Commissioner of Docks recommending the discontinuance of the condemnation proceedings authorized February 8, 1907, for the acquisition of property known as Parcels Nos. 1, 2, 3 and 4, between 57th and 61st streets, Brooklyn, until such time as the marginal railway is in operation and the water-front conditions in that vicinity have been readjusted.

The Commissioner states that Parcel No. 2 was purchased by the City in 1907, at private sale, for \$848,520.43; as nothing has been done with it since its acquisition, and, in view of the enormous cost of acquiring the remainder of the property, the above recommendation is made.

Report of the Comptroller, recommending that the request of the Commissioner of Docks, for the discontinuance of the proceedings, be granted.

(On November 20, 1913, the above matter was referred to the Comptroller for a report.)

(On November 26, 1913, the matter was laid over two weeks, on December 11, 1913, for one week, and on December 18, 1913, to January 16, 1914.)

(On January 16, 1914 (Cal. No. 13), the matter was again laid over for this meeting.)

Which were laid over one week (February 6, 1914).

Department of Health—Hospital for Contagious Diseases, Borough of Queens (Cal. No. 15).

The Secretary presented:

Petition of taxpayers and residents of Jamaica, Borough of Queens, protesting the proposed establishment of a hospital for contagious diseases at Jamaica, and requesting that the appropriation authorized by the Board for said purpose be rescinded.

(On July 17, 1911, the Board authorized the issue of \$125,000 corporate stock for the construction of a hospital for contagious diseases in the Borough of Queens.)

(On March 27, 1913, on the recommendation of the Corporate Stock Budget Committee, the Board adopted a resolution rescinding its resolution of June 17, 1910, which directed the Department of Health to abandon the property purchased in the Borough of Queens as a site for a hospital for contagious diseases, known as the "Haacke Farm," located on Flushing road, near Lots lane, Jamaica, Borough of Queens.)

(On May 29 and on October 6, 1913, respectively, the Board approved of the preliminary and final contracts with the architect for the preparation of plans and specifications and supervising the construction of the building for said hospital, and on December 18, 1913, the contract for general construction work, etc.)

(On January 9, 1914, the above matter was laid over and the Secretary requested to notify the Department of Health to consider the objections.)

(On January 16, 1914, a communication from Commissioner of Health stating that the objections presented would be considered, was presented and the matter was referred to a committee, consisting of the Commissioner of Health, the President of the Borough of Queens and the Appraiser of Real Estate of the Department of Finance, for report at this meeting.)

Communication from the Business Men's Association of Flushing, New York, protesting the proposed location of the hospital for contagious diseases, near Jamaica.

Communication from the Jamaica Citizens' Association of the Borough of Queens containing an offer from Mrs. Beecher, of Morris Avenue, Jamaica, to allow the City the use of a 15-room house in Jamaica, as a hospital for contagious diseases until the City has built one in that section.

Dr. Wilson, of the Department of Health, appeared in favor of the present site.

Darwin R. James, Christopher Clark, R. W. Highbie and Herbert O'Brien, appeared in opposition.

The matter was laid over for one week (February 6, 1914).

Organization of Central Purchasing Department for Supplies Required by The City of New York—Approval of Principles Outlined in Plan Therefor and Approval of Legislation Thereon (Cal. No. 16).

(On January 16 and again on January 23, 1914, the above report was laid over for one week.)

The Secretary presented the following:

At a meeting of the Board, held March 27 of last year, the following resolution was unanimously adopted:

"That the Board of Estimate and Apportionment hereby approves the general principles outlined in the plan presented by the Comptroller for a central purchasing department for supplies required by The City of New York, and also approves legislation introduced in the Legislature, at the Comptroller's request, to make the plan effective."

The details of this plan for centralizing the purchase, distribution and control of all supplies required by the City are too well known to require an elaboration at this time. They have been favorably passed upon by a special committee of experts appointed by the Merchants' Association and the general principles approved by the Chamber of Commerce, the Allied Real Estate Interests, the Citizens' Union and other public bodies and the newspapers of the City generally. Described in a few words, the plan proposes to apply to the whole question of purchasing, distributing and controlling all supplies required by every City Department the same economic principles which are in use by the largest and best managed commercial corporations throughout the country. It will give this Board direct and effective control over all supplies purchased and prices paid, and will, if properly installed and managed, effect a large annual saving.

A bill, amending the City Charter, to make the plan effective, was introduced, at my request, during the last regular session of the Legislature. In spite of the unanimous approval of this Board and the strong case in its favor made by representatives of important public bodies at the hearing before the Cities Committee of the Senate, the bill was not reported for passage to either branch of the Legislature.

Since that time a detailed plan of the organization of the new department of purchase has been carefully developed for submission to this Board as soon as the plan becomes effective.

It is my intention to have the bill reintroduced in the Legislature at the present session, but, before doing so, I desire to ask the Board to readopt the resolution unanimously adopted last year, approving the general principles of the plan and the proposed legislation to make that plan effective.

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the resolution adopted by the Board of Estimate and Apportionment March 27, 1913, as follows:

"Resolved, That the Board of Estimate and Apportionment hereby approves of the general principles outlined in the plan presented by the Comptroller for a Central Purchasing Department for supplies required by The City of New York, and also approves legislation introduced in the Legislature, at the Comptroller's request, to make the plan effective."

—be and the same is hereby readopted.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Public Service Commission for the First District—Approval of Contract Between the Rapid Transit Subway Construction Company, the Interborough Rapid Transit Company and The City of New York, for the Construction of Section No. 6, Routes 4 and 38, 7th Avenue-Lexington Avenue Rapid Transit Railroad, and the Issue of Corporate Stock Therefor (Cal. No. 17).

(On January 9, 1914, the contract and requisition for the above work were referred to the Comptroller.)

(On January 23, 1914, the above matter was laid over for one week and referred to the Transit Committee.)

The Secretary presented the following:

State of New York, Public Service Commission for the First District, Tribune Building, 154 Nassau Street, New York, January 5, 1914.

To the Board of Estimate and Apportionment of The City of New York:

The Public Service Commission for the First District herewith transmits to you for your consent, as required by law, a proposed contract between The City of New York, Interborough Rapid Transit Company and Rapid Transit Subway Construction Company for the construction of Section No. 6 of Routes Nos. 4 and 38, being that portion of the proposed 7th Avenue-Lexington Avenue rapid transit railroad which begins at a point under 7th Avenue, in the Borough of Manhattan, about seventy-five (75) feet north of the northerly building line of West 30th street, and extending thence northerly under 7th Avenue to a point about one hundred feet south of the southerly building line of West 43d street.

The Public Service Commission for the First District requests your honorable Board to consent to said contract herewith transmitted and to prescribe a limit to the amount of bonds available to meet the requirements of the City's obligation under said contract, to wit, the sum of one hundred and fourteen thousand six hundred and forty-seven and eighteen one-hundredths dollars (\$114,647.18), and also to direct the Comptroller of The City of New York to issue the bonds of said City at such a rate of interest as the Commissioners of the Sinking Fund of said City may prescribe for the purpose of providing the necessary means to meet the City's share of executing said contract, to wit, the sum of one hundred and fourteen thousand six hundred and forty-seven and eighteen one-hundredths dollars (\$114,647.18).

The Public Service Commission for the First District does hereby pursuant to Section 45 of the Greater New York Charter make request for the authorization of such corporate stock for the full amount sufficient to pay the entire estimated expense to the City of executing such contract, to wit, the sum of one hundred and fourteen thousand six hundred and forty-seven and eighteen one-hundredths dollars (\$114,647.18).

This requisition is a sub-requisition on account of, and not in addition to, the requisition made by the Public Service Commission for the First District, under date of March 18, 1913, upon your honorable Board for twenty-eight million two hundred thousand dollars (\$28,200,000) for the purpose of carrying out the contract dated March 19, 1913, known as Contract No. 3, between The City of New York, acting by the Public Service Commission for the First District, and Interborough Rapid Transit Company, for additional rapid transit railroads, and the appropriation made thereunder by your honorable Board on March 18, 1913.

In witness whereof, the Public Service Commission for the First District has caused its official seal to be hereto affixed and attested by its Secretary, and these presents to be signed by its Chairman this 5th day of January, 1914.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT, by EDWARD

E. McCALL, Chairman.

(Seal)

Attest: TBAVIS H. WHITNEY, Secretary.

INVITATION TO CONTRACTORS.

PART OF THE SEVENTH AVENUE-LEXINGTON AVENUE RAPID TRANSIT RAILROAD.
The Public Service Commission for the First District (hereinafter called "the Commission") invites proposals to construct Section No. 6 of Routes 4 and 38, a part of the Seventh Avenue-Lexington Avenue Rapid Transit Railroad.

The points within the City of New York between which the said part is to run and the route or routes to be followed are briefly as follows:

SECTION No. 6. Beginning at a point under Seventh Avenue in the Borough of Manhattan about seventy-five (75) feet north of the northerly building line of West Thirtieth Street, and extending thence northerly under Seventh Avenue to a point about one hundred (100) feet south of the southerly building line of West Forty-third Street.

The general plan of construction calls for a subsurface railroad having four and five tracks. The details of the construction of the Railroad and appurtenances are more particularly indicated on the Contract Drawings.

Bidders will not be required to provide or lay tracks, ties or ballast, nor to do station finish work.

The work of construction under the contract will include the construction of all necessary sewers and connections, along or off the route of the Railroad; also the necessary support, maintenance, readjustment and reconstruction of vaults adjacent to buildings, pipes, tubes, conduits, subways or other subsurface structures; the support and care, including underpinning or the maintaining, protecting and securing where necessary, of all buildings, monuments, surface and subsurface railroads and other surface, subsurface and overhead structures of any kind, etc., affected by or interfered with during the construction of the work; also the restoration of the sidewalks and roadways.

The method of construction will be by trench excavation under cover, unless otherwise permitted by the Commission, as set forth in the form of contract.

Bidders must examine the form of contract and the specifications, maps and plans; must visit the location of the work and inform themselves of the present conditions along the line thereof and make their own estimates of the facilities and difficulties attending the execution of the proposed work.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated, in the printed form of contract and in the Contract Drawings therein referred to. Printed copies of the form of contract, bond and contractor's proposal may be had on application at the office of the Commission, No. 154 Nassau Street, Borough of Manhattan, City of New York. The Contract Drawings may be inspected at the same office, and copies thereof may be purchased by prospective bidders on payment of five dollars (\$5.00). The printed form of contract and the Contract Drawings are to be deemed a part of this invitation.

The City and the Interborough Rapid Transit Company will both be parties to the contract; the Interborough Rapid Transit Company being a party for the purpose of disbursing part of its contribution toward the cost of construction as provided in the contract dated March 19, 1913, between The City of New York, acting by the Commission, and the Interborough Rapid Transit Company for the equipment, maintenance and operation of additional rapid transit railroads. The liability of Interborough Rapid Transit Company under the contract for which bids are now invited will be limited to an amount equal to ninety-five per centum (95%) of the aggregate sum arrived at by multiplying the estimated approximate quantities by the Unit Prices as contained in the Schedule of Unit Prices in the Contractor's proposal. The Contractor is to accept the obligation of the Interborough Rapid Transit Company to make payments to the amount and in the manner provided in the contract and is to agree not to look to the City except to the extent that the amounts earned under the contract may exceed the amount for which the Interborough Rapid Transit Company is liable.

The Commission is informed by the Department of Docks & Ferries that docks and bulkheads along the East River or along the North River may be available for dumping purposes. Information in regard thereto may be obtained by any intending bidder upon inquiry at the office of the Department of Docks and Ferries, with whom all arrangements must be made with respect to utilizing such docks and bulkheads as may be available.

Partial payments to the Contractor will be made monthly as the work proceeds, as provided in the form of contract.

The Contractor will be required to complete the work as soon as practicable and within a period of thirty-six (36) months from the date of the delivery of the contract.

Sealed bids or proposals will be received at the office of the Commission at No. 154 Nassau Street, Borough of Manhattan, City of New York, until the 29th day of December, 1913, at twelve fifteen (12:15) o'clock p.m., at which time, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

A statement based upon estimate of the Engineer, of the quantities of the various classes of the work, and of the nature and extent as near as practicable of the work required is to be found in the schedule forming a part of the form of Contractor's Proposal. The quantities given in such schedule are approximate only, being given as a basis for the uniform comparison of bids, and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same, except as provided in the specifications and form of contract.

All proposals must, when submitted, be enclosed in a sealed envelope endorsed "Proposal for Constructing Part of Rapid Transit Railroad Routes Nos. 4 & 38, Section No. 6," and must be delivered to the Commission or its Secretary; and in the presence of the person submitting the proposal, it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a separate certified check drawn upon a national or state bank or trust company having its principal office in the City of New York, satisfactory to the Commission and payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand (\$15,000) dollars. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

No proposal, after it shall have been deposited with the Commission, will be allowed to be withdrawn for any reason whatever.

The award of the contract will be made by the Commission as soon as practicable after the opening of the proposals.

Bidders whose proposals are otherwise satisfactory, in case the sureties or securities named by them are not approved by the Commission, may substitute in their proposals the names of other sureties or securities approved by the Commission, but such substitution must be made within five (5) days after notice of disapproval, unless such period is extended by the Commission.

A bidder whose proposal shall be accepted shall, in person or by duly authorized representative, attend at the said office of the Commission within ten (10) days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the Contractor will be required to furnish security to the City by giving a bond for two hundred thousand dollars (\$200,000). At the option of the successful bidder cash or approved securities may be deposited instead of giving a bond. If securities are deposited in place of a bond under this contract, they must be of the character of securities in which Savings Banks may invest their funds and must be approved by the Commission.

The Contractor's bond must be in the form annexed to the form of contract.

In addition and as further security fifteen (15) per centum of the amounts certified from time to time to be due to the Contractor will be deducted until the amounts so deducted and retained shall equal ten (10) per centum of the sum of the amounts resulting from the product of the estimated approximate quantities and the Unit Prices as contained in the Schedule of Unit Prices in the Contractor's proposal. Thereafter there shall be so deducted and retained for such purpose ten (10) per centum of the amounts certified from time to time to be due to the Contractor. The Contractor may from time to time withdraw portions of the amounts so retained upon depositing in lieu thereof corporate stock of The City of New York equal in market value to the amount so withdrawn.

In case of failure or neglect to execute and deliver the contract or to execute and deliver the required bond or to make the required deposit, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have

abandoned the contract. In the latter case, the Commission will give notice thereof to such defaulting bidder, and the Commission may thereupon proceed to make another contract with such, if any, of the original bidders as, in the opinion of the Commission, it will be to the best interests of the City to contract with, or may by new advertisement invite further proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other Contractor over the amount of the bid of such defaulting bidder.

If the Commission shall give notice to any bidder that his or its proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and if the bidder shall fail within ten (10) days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver the bond with sureties, or to make the required deposit, then the Invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damage by it sustained by reason of such failure, and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five (5) days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions in respect of the bond or deposit are complied with.

The right to reject any and all bids is reserved.

New York December 5, 1913.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

By EDWARD E. McCALL, Chairman.

TRAVIS H. WHITNEY, Secretary.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT.

CONTRACT FOR THE CONSTRUCTION OF A PART OF A RAPID TRANSIT RAILROAD, ROUTES NOS. 4 AND 38, SECTION NO. 6.

Approved as to form this day of 1913.

Acting Corporation Counsel.

RAPID TRANSIT RAILROAD.

CONTRACT.

Routes Nos. 4 and 38, Section No. 6.

Agreement made this day of 1913, between The City of New York, herein after called the City, acting by the Public Service Commission for the First District, herein after called the Commission, party of the first part, Interborough Rapid Transit Company, a corporation organized and existing under the laws of the State of New York, herein after called the Interborough Company, party of the second part, and Rapid Transit Subway Construction Company, a corporation organized and existing under the laws of the State of New York, herein after called the Contractor, party of the third part.

Whereas, on or about the 19th day of March, 1913, the City, acting by the Commission, entered into a contract with the Interborough Company for the equipment, maintenance and operation of certain additional rapid transit railroads or extensions of the rapid transit railroads now operated by the Interborough Company under lease from the City therein specifically described, including the Railroad to be constructed hereunder, and as one of the terms and conditions of such contract the Interborough Company agreed to contribute toward the cost of construction of such railroads and to disburse part of its said contribution through the medium of construction contracts to which it should be a party for the purpose of making such disbursement; and

Whereas, the Commission, by due advertisement, pursuant to law, has invited contractors to submit to the Commission proposals for making this contract; and

Whereas, the Contractor has thereupon duly submitted to the Commission a proposal, which has been accepted; and

Whereas, the Board of Estimate and Apportionment of The City of New York has consented to this contract;

Now, therefore, in consideration of the mutual covenants and agreements herein after contained, and under the authority of chapter 4 of the laws of 1891, entitled "An Act to provide for Rapid Transit Railways in Cities of over One Million Inhabitants," and of the various acts amending the same, the parties do hereby, the City for itself and its successors, the Interborough Company for itself, its successors and assigns and the Contractor for itself, its successors and assigns.

Agree with each other as follows:

Chapter I.

GENERAL PROVISIONS AND DEFINITIONS.

Outline of Contract.

Article I. The Contractor agrees to construct the part herein after described of a Rapid Transit Railroad, with its appurtenances. The City and the Interborough Company agree to pay the Contractor the sums of money herein after mentioned at the times and in the manner and upon the terms and conditions herein after set forth.

Brief Description of Works.

Article II. The Railroad to be constructed under this contract is formed of a part of a certain route adopted by the Board of Rapid Transit Railroad Commissioners for the City of New York on May 12, 1905, which is known as the Seventh Avenue and Eighth Avenue Route or Route No. 4. The Railroad to be constructed under this contract consists of

Section No. 6.

Beginning at a point under Seventh Avenue in the Borough of Manhattan about seventy-five (75) feet north of the northerly building line of West Thirtieth Street, and extending thence northerly under Seventh Avenue to a point about one hundred (100) feet south of the southerly building line of West Forty-third Street.

The precise location of the tracks and the dimensions and other characteristics of the Railroad are more fully stated in the specifications forming a part of this contract, and in the detailed drawings and plans herein after mentioned.

Statutes Incorporated Herein.

Article III. This contract is made pursuant to the Rapid Transit Act, which is to be deemed a part hereof as if it were incorporated herein.

Marginal Notes, etc.

Article IV. Titles, headings, running headlines and marginal notes are printed hereon merely for convenience and shall not be deemed to be any part of this contract for any purpose whatever.

Definitions of Words.

Article V. The following words and expressions used in this contract shall, except where by the context it is clear that another meaning is intended, be construed as follows:

"City."

(1) The word "City" to mean The City of New York, and any other corporation or division of government to which the ownership, rights, powers and privileges of The City of New York under the Rapid Transit Act shall hereafter come, belong or appertain.

"Commission."

(2) The word "Commission" to mean the Public Service Commission for the First District, and any other board, body, commission, official or officials, to which or to whom the powers now belonging to the said Commission in respect of the location, construction, equipment, maintenance and operation of Rapid Transit Railroads under the provisions of the Rapid Transit Act shall, by virtue of any act or acts, hereafter pass or be held to appertain.

"Interborough Company."

(3) The words "Interborough Company" to mean Interborough Rapid Transit Company, party of the second part to this contract, and its successors and assigns.

"Contractor."

(4) The word "Contractor" to mean the party of the third part to this contract, and its successors and assigns and any and every person or corporation who or which shall at any time be liable in the place or for the party of the third part to perform any obligations under this contract assumed by the said party of the third part. For convenience the Contractor is herein after referred to as if the Contractor were an individual. The word "he" shall, as the sense may require, include "it," "she" and "they"; the word "him" shall include "her," "it" and "them"; and the word "his" shall include "its," "her" and "their."

"Comptroller."

(5) The word "Comptroller" to mean the Comptroller of The City of New York, and the officer or board to whom or to which his powers now existing under the Rapid Transit Act shall come to appertain.

"Engineer."

(6) The word "Engineer" to mean the Chief Engineer of the Commission or his duly authorized representative and any successor or successors duly appointed or any deputy or substitute for him who shall be appointed by the Commission or by its authority.

"Rapid Transit Act."

(7) The words "Rapid Transit Act" to mean chapter 4 of the laws of 1891 as amended by chapters 102 and 556 of the laws of 1892, chapters 528 and 752 of the laws of 1894, chapter 519 of the laws of 1895, chapter 729 of the laws of 1896, chapter 616 of the laws of 1900, chapter 587 of the laws of 1901, chapters 533, 542, 544 and 584 of the laws of 1902, chapters 562 and 564 of the laws of 1904, chapters 599 and 631 of the laws of 1905, chapters 472, 606 and 607 of the laws of 1906, chapter 429 of the laws of 1907, chapter 498 of the laws of 1909, chapters 205, 504, 505 and 506 of the laws of 1910, chapter 888 of the laws of 1911, chapter 226 of the laws of 1912, and chapters 100, 510, 524 and 540 of the laws of 1913, or as heretofore otherwise amended.

"Railroad."

(8) The word "Railroad" to mean the part which the Contractor agrees by this contract to build, together with all appurtenances thereto which are to be constructed or provided by the Contractor.

"The Works."

(9) The words "the Works" to mean all of the matters and things herein agreed to be furnished or done by or on the part of the Contractor.

"New York."

(10) The words "New York" to mean the City of New York according to its boundaries at the date of this contract.

"Daily Newspaper."

(11) The words "daily newspaper" to mean any paper regularly published in New York on every day or every day except Sundays and holidays.

"Notice"—"Direction."

(12) The word "notice" to mean a written notice. The word "direction" to mean a written direction.

Wherever in the specifications or upon the drawings the words "directed," "required," "permitted," "ordered," "designated," "prescribed" or words of like import are used, it shall be understood that the direction, requirement, permission, order, designation or prescription of the Engineer is intended, and similarly the words "approved," "acceptable," "satisfactory," or words of like import shall mean approved by or acceptable or satisfactory to the Engineer.

Legal Address of Contractor—Address May Be Changed.

Article VI. The address given in the bid or proposal, upon which this contract is founded, is hereby designated as the place where all notices, directions and other communications to the Contractor shall be certified, mailed or delivered. The delivering at the above-named place or depositing in a post-paid wrapper directed to the above place, in any post-office box regularly maintained by the Post-office Department, of any notice, letter or other communication to the Contractor, shall be deemed sufficient service thereof upon the Contractor. Such address may be changed at any time by an instrument in writing executed and acknowledged by the Contractor and delivered to the Commission. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, direction or other communication upon the Contractor personally.

Contractor Responsible for Acts of Sub-contractor's Employees.

Article VII. If the Contractor shall cause any part of this contract to be performed by a sub-contractor, the provisions of this contract shall apply to such sub-contractor and his officers, agents and employees in all respects, as if he and they were employees of the Contractor; and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts and negligence of the sub-contractor, his officers, agents and employees as if they were employees of the Contractor. The employees of the sub-contractor shall be subject to the same provisions hereof as employees of the Contractor; and the work or materials furnished by the sub-contractor shall be subject to the provisions hereof, as if furnished directly by the Contractor.

Commission May Disapprove Sub-contractors.

Article VIII. The Contractor, before making any sub-contract of the work, shall state in writing to the Commission the name of the proposed sub-contractor, the portion of the work which such sub-contractor is to do or the materials which such sub-contractor is to furnish, the place of business of such sub-contractor and such other information as the Commission may require. The Commission shall have the right to require the Contractor not to award any sub-contract to a person, firm or corporation disapproved of by the Commission.

Chapter II.**WORK TO BE DONE, PRICES, ETC.**

Article IX. The Contractor shall do all the work and furnish all the materials, plant, tools and appliances necessary or proper for performing and completing the work of constructing the Railroad in the manner and within the time hereinafter specified. He shall complete the Railroad and do all work and furnish all labor and materials in and about the construction of the Railroad to the satisfaction of the Commission and in accordance with this contract and the specifications and drawings herein mentioned at the prices herein agreed upon and fixed therefor; provided, however, that said contract drawings may from time to time be altered or modified as hereinafter provided.

Article X. In order to construct the Railroad it will be necessary to take up and relay the sidewalk and roadway pavement or other surface material, and to protect, support and maintain all buildings and other structures, including their foundations, and all surface and subsurface railroads, water mains, gas pipes, electric subways, poles and wires, pneumatic tubes, vaults, including vaults of abutting property, and other surface, subsurface and overhead structures, together with their necessary connections, as the same may be met with along the route; to build sewers both along the route and other streets; to make or remake the necessary manholes, catch basins and other sewer connections therewith; to move, alter, readjust or rebuild water mains, gas pipes, electric subways, pneumatic tubes, vaults, including vaults of abutting property, and other surface, subsurface and overhead structures, together with their necessary connections; and to do all such additional and incidental work as may be necessary for the completion of the Railroad and the reconstruction and restoration of the street pavements or other surfaces and of all surface, subsurface and overhead structures which may have been directly or indirectly affected by, disturbed or injured by the Contractor in the progress of the work of construction, to as useful, safe, durable and good a condition as existed before construction shall have been begun. All such work of every description, including underpinning, or the maintaining, protecting and securing, wherever necessary, of all buildings or structures of whatsoever nature, monuments, and surface and subsurface railroads affected by or interfered with during the construction of the Railroad, is part of the work which is included in this contract and which the Contractor agrees to perform for the prices herein agreed upon.

Article XI. The City and the Interborough Company will pay in the respective proportions and amounts and in the manner hereinafter provided and the Contractor shall receive in full compensation for furnishing the necessary plant and all the materials and labor, and for performing and completing all the work which is necessary or proper to be furnished or performed in order to complete the Railroad (including all incidental work) and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements, or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all risks of any description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, the prices contained in the Schedule of Unit Prices following. It is specifically understood and agreed, however, that the Interborough Company is a party to this contract solely for the purpose of making its contribution toward the cost of construction of the Railroad, as provided in the said contract dated March 19, 1913, and its sole obligation under this contract is to make the payments in the manner and to the amount hereinafter provided.

Schedule of Unit Prices.

Item 1. For earth excavation above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., the sum of three dollars (\$3) per cubic yard.

Item 2-A. For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., the sum of three dollars (\$3) per cubic yard.

Item 3. For rock excavation (except excavation for sewers and pipes), including

the disposal of it, etc., the sum of four dollars and eighty cents (\$4.80) per cubic yard.

Item 3-A. For rock excavation for sewers and pipes, including the disposal of it, etc., the sum of five dollars (\$5) per cubic yard.

Item 4. For underpinning buildings, including all incidental work, labor and material, as follows:

(a) For buildings less than seven (7) stories in height the sum of seventy-five dollars (\$75) per lineal front foot of building underpinned.

(b) For buildings from seven (7) to twelve (12) stories inclusive in height the sum of one hundred dollars (\$100) per lineal front foot of building underpinned.

Item 4-E. For maintaining, protecting and securing buildings, including all incidental work, labor and material, the sum of twenty dollars (\$20) per lineal front foot of building maintained, protected and secured.

Item 6. For concrete masonry, in place, the sum of eight dollars (\$8) per cubic yard.

Item 7. For protective concrete masonry, in place, outside of waterproofing, the sum of eight dollars (\$8) per cubic yard.

Item 8. For rubble stone masonry, in place, the sum of six dollars (\$6) per cubic yard.

Item 8-A. For dry rubble masonry, in place, the sum of five dollars (\$5) per cubic yard.

Item 9. For brick masonry, in place, the sum of fifteen dollars (\$15) per cubic yard.

Item 9-D. For the removal and disposal of old masonry of whatever kind as required by Section No. 427 of the Specifications, the sum of ten dollars (\$10) per cubic yard.

Item 10. For hollow terra cotta brick or tile masonry of any thickness, in place, the sum of fifteen dollars (\$15) per cubic yard.

Item 11. For grout of Portland cement, the sum of two dollars and fifty cents (\$2.50) per barrel of Portland cement used.

Item 12. For timber piles, in place and prepared, the sum of sixty cents (\$0.60) per lineal foot.

Item 13. For timber foundations, placed and fastened, the sum of seventy-five dollars (\$75) per thousand feet, board measure.

Item 14. For broken stone or gravel, in place, other than that used in concrete, the sum of two dollars and fifty cents (\$2.50) per cubic yard.

Item 15. For waterproofing, treated woven fabric (except dry ply), laid with pitch or asphaltum, in place, as follows:

(a) For one-ply, the sum of fifty cents (\$0.50) per square yard.

(b) For two-ply, the sum of seventy-five cents (\$0.75) per square yard.

(c) For three-ply, the sum of ninety cents (\$0.90) per square yard.

(d) For four-ply, the sum of one dollar and ten cents (\$1.10) per square yard.

(e) For five-ply, the sum of one dollar and thirty-five cents (\$1.35) per square yard.

(f) For six-ply, the sum of one dollar and fifty-five cents (\$1.55) per square yard.

(i) For dry-ply, the sum of forty cents (\$0.40) per square yard.

Item 16. For waterproofing, brick laid in asphalt mastic, in place, the sum of thirty-five dollars (\$35) per cubic yard.

Item 17. For vitrified or cast-iron drain pipe, in place, as follows:

(a) For twelve (12) inch vitrified pipe, the sum of seventy-five cents (\$0.75) per lineal foot.

(b) For ten (10) inch vitrified pipe, the sum of sixty cents (\$0.60) per lineal foot.

(c) For eight (8) inch vitrified pipe, the sum of fifty cents (\$0.50) per lineal foot.

(d) For six (6) inch vitrified pipe, the sum of forty cents (\$0.40) per lineal foot.

(e) For four (4) inch vitrified pipe, the sum of thirty-five cents (\$0.35) per lineal foot.

(g) For six (6) inch cast-iron pipe, the sum of one dollar (\$1) per lineal foot.

(h) For four (4) inch cast-iron pipe, the sum of seventy-five cents (\$0.75) per lineal foot.

Item 17-A. For cast-iron pipe and fittings, including specials, "extra heavy," in place, as follows:

(a) For three (3) inch, the sum of one dollar (\$1) per lineal foot.

(b) For four (4) inch, the sum of one dollar and twenty-five cents (\$1.25) per lineal foot.

(c) For six (6) inch, the sum of one dollar and seventy-five cents (\$1.75) per lineal foot.

(d) For eight (8) inch, the sum of two dollars (\$2) per lineal foot.

Item 18. For tunnel ducts in place as required by Section No. 407 of the Specifications, the sum of ten cents (\$0.10) per duct foot.

Item 19. For riveted steel, painted and erected, the sum of sixty-four dollars (\$64) per ton of two thousand pounds.

Item 20. For steel beams and shapes with connections, painted and erected, the sum of fifty-seven dollars (\$57) per ton of two thousand pounds.

Item 21. For steel rods and bars built in concrete, the sum of fifty-five dollars (\$55) per ton of two thousand pounds.

Item 25. For miscellaneous iron castings (other than tunnel lining) such as manhole heads and covers, gratings, etc., but not including castings for sewer work or pipes, in place, the sum of sixty-five dollars (\$65) per ton of two thousand pounds.

Item 25-C. For miscellaneous iron furnishings for sewer manholes and basins, both cast and wrought, such as manhole and basin heads, covers, inlet gratings or bars, manhole steps, etc., but not including pipe, in place, the sum of seventy dollars (\$70) per ton of two thousand pounds.

Item 26. For special wire forms, in place, the sum of ten cents (\$0.10) per pound.

Item 27. For one and one-half (1½) inch galvanized iron pipe hand-rail, in place, including expansion bolts, etc., the sum of forty cents (\$0.40) per lineal foot.

Item 28. For steel gratings for ventilation, in place, including frames, etc., the sum of one dollar and fifty cents (\$1.50) per square foot.

Item 29. For vault lights, in place, the sum of one dollar and fifty cents (\$1.50) per square foot.

Item 30. For street surface restored, as follows:

(a) Within curb lines, including curbs and all structures and growths thereon or thereon, the sum of two dollars and fifty cents (\$2.50) per square yard.

(e) For repaving of roadways between curb lines with Asphalt pavement, the sum of two dollars and sixty cents (\$2.60) per square yard.

(i) For new bluestone curb, in place, including all incidental work, labor and material, the sum of one dollar and forty cents (\$1.40) per lineal foot.

(j) For repaving of roadways between curb lines with Wooden Block pavement, the sum of three dollars and sixty cents (\$3.60) per square yard.

Item 32. For wrought-iron electric conduits, in place, in stations, as follows:

(a) For three-fourths (¾) inch wrought-iron conduits, the sum of twenty-five cents (\$0.25) per lineal foot.

(b) For one and one-half (1½) inch wrought-iron conduits, the sum of forty cents (\$0.40) per lineal foot.

(c) For two (2) inch wrought-iron conduits, the sum of fifty cents (\$0.50) per lineal foot.

(d) For one (1) inch wrought-iron conduits, the sum of thirty cents (\$0.30) per lineal foot.

Item 33. For cast-iron outlet boxes, in place, in stations, the sum of one dollar (\$1) each.

Item 33-A. For cast-iron pull boxes, in place, in stations, the sum of two dollars (\$2) each.

Item 34. For cast-iron pipe and fittings, including specials "extra heavy" in place, in stations, as follows:

(a) For six (6) inch the sum of one dollar and fifty cents (\$1.50) per lineal foot.

(b) For three (3) inch the sum of one dollar (\$1) per lineal foot.

SEWERS.**Vitrified and Cast-Iron Pipe.**

Item 37. For twelve (12) inch vitrified pipe sewer, the sum of three dollars and sixty cents (\$3.60) per lineal foot.

Item 38. For fifteen (15) inch vitrified pipe sewer, the sum of four dollars and twenty cents (\$4.20) per lineal foot.

Item 39. For eighteen (18) inch vitrified pipe sewer, the sum of five dollars (\$5) per lineal foot.

Item 40. For twenty (20) inch vitrified pipe sewer, the sum of five dollars and fifty cents (\$5.50) per lineal foot.

Item 40-A. For twenty-two (22) inch vitrified pipe sewer, the sum of six dollars (\$6) per lineal foot.

Item 41. For twenty-four (24) inch vitrified pipe sewer, the sum of six dollars and fifty cents (\$6.50) per lineal foot.

Item 42. For cast-iron sewer pipe (straight pipe) in place, in the work, the sum of forty-five dollars (\$45) per ton of two thousand pounds.

Item 43. For cast-iron sewer pipe (special castings) in place, in the work, the sum of seventy-five dollars (\$75) per ton of two thousand pounds.

Egg-shaped Brick or Concrete Sewers.

Item 45. For 3 feet 6 inches by 2 feet 4 inches, the sum of seven dollars (\$7) per lineal foot.

Circular Sewers—Brick or Concrete or Reinforced Concrete.

Item 53. For 4 feet the sum of eight dollars and seventy-five cents (\$8.75) per lineal foot.

Item 54-A. For 4 feet 6 inches the sum of nine dollars and seventy-five cents (\$9.75) per lineal foot.

Item 56-A. For 5 feet 3 inches the sum of twelve dollars (\$12) per lineal foot.

PIPE SURFACE AND SUBSURFACE STRUCTURES.

Item 75. For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:

(a) For electric (underground trolley) railroads, the sum of ten dollars (\$10) per lineal foot of single track.

PIPES IN STREETS.

For Work and Materials as Called for by the Specifications.

Water and Gas Pipes.

Water Pipes.

For water pipes in place, as follows:

Item 79. For 6-inch water pipe, the sum of one dollar (\$1) per lineal foot.

Item 82. For 12-inch water pipe, the sum of one dollar and fifty cents (\$1.50) per lineal foot.

Item 84. For 20-inch water pipe, the sum of two dollars and fifty cents (\$2.50) per lineal foot.

Item 88. For 48-inch water pipe, the sum of ten dollars (\$10) per lineal foot.

Gas Pipes.

For cast-iron gas pipes in place, as follows:

Item 90. For 4-inch gas pipe, the sum of ninety cents (\$0.90) per lineal foot.

Item 91. For 6-inch gas pipe, the sum of one dollar (\$1) per lineal foot.

Item 92. For 8-inch gas pipe, the sum of one dollar and fifteen cents (\$1.15) per lineal foot.

Item 93. For 10-inch gas pipe, the sum of one dollar and twenty-five cents (\$1.25) per lineal foot.

Item 94. For 12-inch gas pipe, the sum of one dollar and fifty cents (\$1.50) per lineal foot.

Item 95. For 16-inch gas pipe, the sum of one dollar and seventy-five cents (\$1.75) per lineal foot.

Item 96. For 20-inch gas pipe, the sum of two dollars and fifty cents (\$2.50) per lineal foot.

Item 99-A. For wrought-iron by-passing pipes upon or below the street surface, in place, as follows:

(a) For 6-inch by-passing pipe, the sum of three dollars (\$3) per lineal foot.

(b) For 8-inch by-passing pipe, the sum of four dollars (\$4) per lineal foot.

(d) For 12-inch by-passing pipe, the sum of four dollars and fifty cents (\$4.50) per lineal foot.

(e) For 16-inch by-passing pipe, the sum of six dollars (\$6) per lineal foot.

(f) For 20-inch by-passing pipe, the sum of ten dollars (\$10) per lineal foot.

Item 99-B. For wrought-iron by-passing pipes above the street surface, on trestle, in place, as follows:

(b) For 16-inch by-passing pipe, the sum of twelve dollars (\$12) per lineal foot.

(c) For 20-inch by-passing pipe, the sum of sixteen dollars (\$16) per lineal foot.

(h) For trestle to support by-passing pipes, in place in the work, the sum of four dollars (\$4) per lineal foot.

Item 99-C. For wrought-iron gas pipes, in place, as follows:

(b) For 6-inch gas pipe, the sum of one dollar and twenty-five cents (\$1.25) per lineal foot.

(c) For 8-inch gas pipe, the sum of one dollar and fifty cents (\$1.50) per lineal foot.

(d) For 10-inch gas pipe, the sum of two dollars (\$2) per lineal foot.

New Water and Gas Pipe.

Item 100. For new cast-iron hub and spigot straight pipe actually used, as measured in place in the work, the sum of forty dollars (\$40) per ton of two thousand pounds.

Item 100-A. For new standard weight gas pipes, true wrought-iron, threads and couplings included, actually used as measured in place in the work, as follows:

(b) For 6-inch gas pipe, the sum of one dollar and fifty cents (\$1.50) per lineal foot.

(c) For 8-inch gas pipe, the sum of two dollars (\$2) per lineal foot.

(d) For 10-inch gas pipe, the sum of two dollars and fifty cents (\$2.50) per lineal foot.

Item 101. For new cast-iron hub and spigot pipe, special castings, actually used, as measured in place in the work, the sum of seventy dollars (\$70) per ton of two thousand pounds.

Item 101-A. For new malleable iron fittings for new wrought-iron gas pipe actually used, as measured in place in the work, the sum of ten cents (\$0.10) per pound.

High Pressure Fire System Pipes, Standard Spigot and Grooves.

For high pressure fire system pipe in place, as follows:

Item 102. For 8-inch high pressure fire system water pipe, the sum of two dollars (\$2) per lineal foot.

Item 103. For 12-inch high pressure fire system water pipe, the sum of three dollars (\$3) per lineal foot.

Item 106. For 24-inch high pressure fire system water pipe, the sum of six dollars (\$6) per lineal foot.

New Cast-Iron Spigot and Groove Pipe for High Pressure Fire System.

Item 107. For new cast-iron spigot and groove straight pipe actually used, as measured in place in the work, the sum of forty dollars (\$40) per ton of two thousand pounds.

Item 108. For new cast-iron spigot and groove pipe, special castings, actually used, as measured in place in the work, the sum of seventy-five dollars (\$75) per ton of two thousand pounds.

Air Pipes.

For air pipe in place, as follows:

Item 122-A. For 12-inch air pipe, the sum of three dollars (\$3) per lineal foot.

New Air Pipe.

Item 124-A. For new 12-inch air pipe actually used, as measured in place in the work, the sum of three dollars (\$3) per lineal foot.

Mail Tubes.

Item 125. For 8-inch mail tube in place, the sum of three dollars (\$3) per lineal foot.

Item 126. For new 8-inch mail tube actually used, as measured in place in the work, the sum of one hundred dollars (\$100) per ton of two thousand pounds.

DUCTS IN STREETS.

Electric Ducts and Conduits in Streets.

[Other Than Tunnel Ducts and Street Railroad Ducts which are Provided for in

Items 18 and 75-(a).]

Item 127. For electric ducts and conduits in place, as provided in Section No. 62 of the Specifications, the sum of fifty cents (\$0.50) per duct foot.

Item 127-A. For wrought-iron pipe used as electric ducts and conduits in place, as provided in Section No. 62 of the Specifications, as follows:

(b) For 3-inch wrought-iron pipe, the sum of sixty cents (\$0.60) per lineal foot.

(d) For 4-inch wrought-iron pipe, the sum of seventy cents (\$0.70) per lineal foot.

(f) For 2-inch Edison Conduit, the sum of fifty cents (0.50) per lineal foot.

(g) For 2½-inch Edison Conduit, the sum of sixty cents (\$0.60) per lineal foot.

Quantities.

Prices for Work Not Susceptible of Classification.

Article XII. In case any work or materials shall be required to be done or furnished in or about the Works—whether specified herein or indicated on the plans or not—which in the opinion of the Engineer are not susceptible of classification under the Schedule of Unit Prices, the Contractor shall and will, if ordered by the Engineer, do and perform such work and furnish such materials at and for the actual and necessary net cost in money to the Contractor for labor and for material, where new material is used, and in addition thereto ten (10%) per centum of such net cost for the use of tools and plant, superintendence and all other expenses incidental to the performance of such work and the furnishing of such material, and the Contractor shall have no further claim in excess of the above; but this method of payment shall not apply to the performance of any work or the furnishing of any material which in part or in whole is in the opinion of the Engineer susceptible of classification under such schedule, which work or material shall be paid for in part or in whole, as the case may be, at the unit price given in such schedule, except as herein otherwise expressly provided.

Daily Report in Detail Required.

In case any work or material shall be required to be done or furnished under the provisions of this Article, for cost plus ten (10%) per centum, the Contractor shall at the end of each day during the progress thereof furnish to the Engineer daily time slips showing the name and number of each workman employed thereon, the number of hours employed thereon, the character of work he is doing and the wages paid or to be paid to him, and also a daily memorandum of the material delivered on the work showing the amount and character of such material, from whom purchased and the amount paid or to be paid therefor. If required, the Contractor shall produce any books, vouchers, records or memoranda showing the work and materials actually paid for and the actual prices therefor. Such daily time slips and memoranda shall not, however, be binding upon the City and if any question or dispute shall arise as to the correct cost of such work or material, the determination of the Engineer upon such question or dispute shall be final and conclusive.

In lieu of the provision hereinbefore in this article contained for paying for work and materials which in the opinion of the Engineer are not susceptible of classification under the Schedule of Unit Prices (including the use of tools and plant, superintendence and all other expenses incidental to the performance of such work and the furnishing of such material), the Engineer may in his discretion, but only with the approval of the Commission, fix and determine unit prices for such labor and materials (including the use of tools and plant, superintendence and all other expenses incidental to the performance of such work and the furnishing of such material), or a lump sum price therefor. Such additional unit prices or such lump sum price shall be embodied in a Supplemental Schedule and shall be filed by the Engineer in his office. If the Contractor shall notify the Engineer in writing that he will not accept the price or prices fixed and determined as aforesaid he shall be paid in accordance with the provisions of the first two paragraphs of this article.

Quantities Approximate Only.

Article XIII. It is expressly understood and agreed that the quantities of the various classes of work to be done and materials to be furnished under this contract specified in the Contractor's Proposal, are approximate and only for the purpose of comparing, on a uniform basis, the bids offered for the Works under this contract; and neither the City, nor the Commission, nor any member of the Commission, nor the Interborough Company, is to be held responsible that any of the said estimated quantities shall, by reason of inaccuracies, or changes in the Works, be found even approximately correct in the construction of the Works; and the Contractor shall make no claim for damages or anticipated profit, or for loss of profit, because of a difference between the quantities of the various classes of work actually done or materials actually delivered, and the estimated quantities stated in the Contractor's Proposal, or because of the entire omission of any of the quantities of items stated in the Contractor's Proposal.

Right of Commission to Amplify Plans.

Article XIV. The Commission shall have the right, during the progress of the work, to amplify the plans, to add explanatory specifications and to furnish additional specifications and drawings.

Plans May be Modified.

Article XV. The Commission further reserves the right to change the location and to alter, in any way it may deem necessary for the public interests, the drawings aforesaid, in part or altogether, at any time during the progress of the work, without constituting grounds for any claim by the Contractor for payment or allowance for damages or extra service other than is provided for items of the different classes of construction shown in the schedule, or where in the opinion of the Engineer not susceptible of classification, then as otherwise provided herein.

Contractor Bound to Complete in Best Manner.

Article XVI. The Contractor shall complete the entire work in accordance with the specifications and contract drawings and according to the provisions of this contract and within the times specified in this contract, in the most workmanlike manner and with the highest regard to the safety of life and property and according to the lines, levels and directions given by the Engineer, for the prices herein agreed upon.

Best Materials, Machinery, Tools, Etc., to be Used.

Article XVII. The Contractor shall furnish of the best description all materials, machinery, implements, tools and labor necessary to construct and put in complete working order all work covered by the specifications, contract drawings and provisions of this contract, including all additional specifications, drawings and details issued or required as herein provided for the prices hereinbefore agreed upon.

Contractor Has Examined Location, Plans, Etc.

Article XVIII. The Contractor hereby represents that prior to the execution of this contract he has examined in detail on the ground the location mentioned herein and indicated on the plans, and that he has fully examined the plans and has read each and every clause and section of this contract and the specifications and has had full opportunity to consider the same and make necessary investigations relating thereto; and he agrees that he will not make any claim for, or have any right to, damages or an extension of time for completion of the Works, or any other concession, because of any misinterpretation or misunderstanding of this contract or the specifications or of the plans, or because of any lack of information.

No Acceptance to Obviate the Necessity for Sound Work, Etc.

Article XIX. No acceptance of any part of the Works or of materials therefor shall relieve the Contractor of his obligation to furnish sound material and perform sound work, whether with respect to such part or to any part of the Works.

Inspection.

Article XX. The Commission contemplates, and the Contractor hereby approves, the most thorough and minute inspection by the Commission and its Engineer, and by their representatives or subordinates, of all work and materials and of the manufacture or preparation of such materials from the beginning of Construction to the final completion of the Works. It is the intention of the Commission that its Engineer shall draw the attention of the Contractor to all errors or variations from the requirements of this contract or other defects in workmanship or materials. But it is expressly agreed that no omission on the part of the Commission or its Engineer or any officer, member or subordinate of the Commission to point out such errors, variations or defects shall give the Contractor any right or claim against the City or the Interborough Company or shall in any way relieve the Contractor from his obligations according to the terms of this contract.

Contractor to Afford Facilities for Inspection.

Article XXI. The Contractor shall at all times give to the Commission and its members, to the Engineer and his assistants and subordinates, and any person designated by the Commission or its Chairman, all facilities, whether necessary or convenient, for inspecting the materials to be furnished and the work to be done under this contract. The members of the Commission, the Engineer and all employees of the Commission bearing his authorization or the authorization of the Commission

or its Chairman, shall be admitted at any time summarily and without delay to any part of the Works or to inspection of materials at any place or stage of their manufacture, preparation, shipment or delivery.

Engineer to Be Furnished Facilities.

Article XXII. The Engineer shall be furnished with every reasonable facility for ascertaining whether the work is in accordance with the requirements and intention of this contract, even to the extent of uncovering or taking down portions of finished work. Should the work thus exposed or examined prove satisfactory, the uncovering or taking down and the replacing of the covering or the making good of the parts removed shall be paid for at the contract prices for the class of work done; but should the work exposed or examined prove unsatisfactory, such uncovering, taking down, replacing and making good shall be at the expense of the Contractor.

Inspection Not to Relieve Contractor of Obligations.

Article XXIII. The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill this contract as herein prescribed, and defective work shall be made good and unsuitable materials will be rejected, notwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. If the work or any part thereof shall be found defective before the final acceptance of the whole work, the Contractor shall forthwith make good such defect, in a manner satisfactory to the Engineer, and if any material brought upon the ground for use in the work, or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials as may be directed by the Engineer.

Engineer's Determination—To Be Final and Conclusive upon Contractor.

Article XXIV. To prevent disputes and litigations, the Engineers shall in all cases determine the classification, amount, quality, acceptability and fitness of the several kinds of work and materials which are to be paid for under this contract; shall determine all questions in relation to the Works and the construction thereof, and shall in all cases determine every question which may arise relative to the fulfillment of this contract on the part of the Contractor. His determination and estimate shall be final and conclusive upon the Contractor, and in case any question shall arise between the parties hereto, touching this contract, such determination and estimate shall be a condition precedent to the right of the Contractor to receive any money under this contract.

Engineer to Explain Specifications.

Article XXV. The Engineer shall make all necessary explanations as to the meaning and intention of the specifications, shall give all orders and directions contemplated therein or thereby and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by this contract.

Other Contractors.

During the progress of the work it will be necessary for other contractors and persons to do work in or about the construction or equipment of the Railroad. The Contractor shall afford to such other contractors or persons such facilities as the Engineer may require.

Differences Between Contractor and Other Contractors.

Any difference or conflicts which may arise between the Contractor and other contractors of the Commission in connection with the construction of the Railroad or otherwise or between the Contractor and the Interborough Company or the contractors of the Interborough Company in connection with the equipment of the Railroad in regard to the progress of, or the facilities afforded with respect to, their work shall be adjusted and determined by the Engineer.

Substitute for Chief Engineer.

Article XXVI. Any engineer substituted by the Commission in place of the Chief Engineer during his absence, illness or inability or when the Commission shall so determine, shall, during his official connection, have all the power and authority of the Chief Engineer, and in all respects be recognized as such Chief Engineer.

Chapter III.

SPECIFICATIONS.

Specifications and Drawings to Be Interpreted as Requiring Railroad of Highest Class

—Where Text of Contract Doubtful, Best Materials and Workmanship Required.

Section No. 1. The specifications and contract drawings hereinafter mentioned and taken in connection with the other provisions of this contract, are intended by the Commission to be full and comprehensive, and to show all the work required to be done. But in a work of this magnitude it is impossible either in advance to show all details, or precisely to forecast all exigencies. The specifications and contract drawings are to be taken, therefore, as indicating the amount of work, its nature and the method of construction so far as the same are now distinctly apprehended. The Railroad is intended to be constructed for actual use and operation as an interurban railroad of the highest class, adapted to the necessities of the people of New York, in the best manner, according to the best rules and usages of railroad construction, and in the event of any doubt as to the meaning of any portion or portions of the specifications or contract drawings, or of the text of the contract, the same shall be interpreted as calling for the best construction, both as to materials and workmanship, capable of being supplied or applied under the then existing local conditions. All the clauses of the specifications, and all the parts of the contract drawings, are, therefore, to be understood, construed and interpreted as intending to produce the results hereinbefore stated.

To Construct in Accordance With Specifications.

Section No. 2. The Contractor shall construct and complete the Railroad strictly in accordance with the requirements of these specifications; if, in the specifications or contract, any detail or other matter or thing requisite be not mentioned, nevertheless the same is deemed to be included and the Contractor hereby undertakes to do the same as part of the work hereunder, at the unit prices for each class of work where applicable or as provided in Article XII. of the contract.

Maps and Drawings.

Section No. 3. The contract plans referred to in the contract and specifications are each countersigned by the Engineer, stamped with the seal of the Commission and, except typical plans hereinbelow designated, bear the general title:

ROUTES NOS. 4 AND 38, SECTION NO. 6.

Contract Drawing No.

and are designated or numbered as follows:

A-9, B-274 and B-275, C-1 to C-29 inclusive, C-401, and C-601, and are dated September 9, 1913, and the following typical plans, all of which are countersigned by the Engineer, stamped with the seal of the Commission and bear the general title

Contract Drawing No.

and are designated or numbered as follows:

B-231, B-232, B-249 and C-1001, all dated April 16, 1913, and C-701, dated June 11, 1913.

Typical Sections and Dimensions.

Section No. 4. The sections and dimensions shown on the contract drawings are typical sections and dimensions which should be applicable to the greater part of the work. Working drawings to amplify the contract will be furnished by the Commission to the Contractor. The first of these drawings will be given to the Contractor within 30 days after the contract is delivered and the remainder from time to time as may be reasonably required by the Contractor. Where, however, changes are deemed necessary they may be ordered under Article XV of the contract and the Engineer shall issue such plans and specifications as may be necessary.

Supplementary Drawings.

Section No. 5. In addition to the contract drawings already mentioned, the Commission has had prepared a set of maps and plans, bearing the same seal and general title as the contract-drawings, but designated as Supplementary Drawings. These supplementary drawings exhibit certain information which the Commission has received from its Engineer of the general nature of the soil underlying portions of the route, the nature and position of surface railways, water mains, gas and other pipes, sewers, electric subways, manholes, hydrants, catch basins and other surface, subsurface and overhead structures.

Supplementary Drawings May Be Examined.

Section No. 6. These supplementary drawings can be seen at the office of the Engineer, also samples of material taken in connection with test borings. They are exhibited to the Contractor without any guarantee on the part of the Commission as to their completeness or correctness. The Contractor may have copies (blue-prints) of these drawings for such aid, if any, as may be derived from them, on the payment of the cost of blue-printing.

In Case of Difficulties Not Indicated on Supplementary Drawings.

Section No. 7. If, in the prosecution of the work, difficulties of any nature be encountered which are not indicated or suggested by the supplementary drawings,

or by the samples of the test borings, or if additional surface, subsurface or overhead structures or obstructions be discovered or found of different size or in different positions or of different nature from those shown on the supplementary drawings, or if in any way such supplementary drawings be found erroneous, the Contractor shall take every necessary or proper precaution to overcome the unforeseen difficulty, and is to support, maintain, protect, remove, relay, adjust or readjust, as the case may be, the additional or different surface, subsurface or overhead structures according to the direction of the Engineer, and as provided in this contract and these specifications.

Specifications Do Not Include All Requirements.

Section No. 8. It is expressly understood that the specifications do not include all requirements, but are requirements in addition to those heretofore or elsewhere given or provided in this contract. The specifications and other provisions of this contract, and the contract drawings, are intended to be explanatory of each other. Should, however, any discrepancy appear or any misunderstanding arise as to the import of anything contained in either, the explanation of the Engineer shall be final and conclusive.

Subdivisions of Specifications.

Section No. 9. These specifications are grouped in subdivisions as follows:

1. Brief description of the work.
2. General clauses.
3. General manner of prosecution and maintenance of traffic.
4. Street railroad tracks, mains and other surface, subsurface and overhead structures.
5. Excavation.
6. Backfilling.
7. Piling and timbering.
8. Cement.
9. Mortar.
10. Masonry.
11. Concrete.
12. Brick masonry.
13. Stone masonry.
14. Waterproofing.
15. Steel and iron.
16. Painting.
17. Drains and pumps.
18. Sewers.
19. Requirements for pipes.
20. Ducts.
21. Conduits.
22. Surfaces restored.
23. Gratings, hand-rails, etc.
24. Special matters.

1.

Brief Description of the Work.

General Nature.

Section No. 10. The Rapid Transit Railroad which is hereinbefore described is to be an underground railroad or subway. The general details of construction and the location of the various tracks, junctions, grades, etc., are indicated more particularly on the contract drawings.

The Contractor will not be required to provide or lay tracks, ties or ballast under this contract.

Stations to Be Constructed.

Stations are to be constructed at such places as are indicated on the plans, but station finish work is not included in the work to be done under this contract. Station construction must, however, be kept so advanced that station finish contractors can complete their work coincidently with the completion of the Railroad.

Incidental Work.

Section No. 11. In addition to the construction of the Railroad, it will be necessary to do various incidental work which is generally referred to in Article X hereof.

Ventilating Chambers and Gratings.

Section No. 12. In order to provide for a frequent renewal of air in the Railroad, chambers for the installation of necessary ventilating devices shall be built at the sides of the Railroad and in connection therewith. These chambers shall be generally of the form and dimensions as shown on the plans, varying somewhat with the requirements of local conditions. They will be so arranged that the air will discharge through gratings placed generally in the sidewalks in the roofs of the chambers. If, owing to local conditions, it becomes necessary to lead the air to gratings or other outlets away from the chambers, suitable air-ways, ducts or flues shall be constructed.

The chambers will be built at the places and as indicated on the plans.

Payment for Chamber Doors.

The chambers will be provided with suitable steel doors and with steel ladders reaching to the street for use as exits in case of emergency. Such doors and ladders will be paid for as riveted steel, Schedule Item 19.

Partition Walls.

Also in connection with the ventilation of the Railroad partition walls shall be constructed between the tracks, and in general shall be arranged as follows:

In four-track subways, between the two center tracks.

Refuge Niches.

Openings, or refuge niches, shall be provided in all partition walls at suitable intervals.

At stations the walls between the tracks will be omitted.

Other openings with gratings will be built at or over the stations, for the purpose of admitting air to the Railroad.

2.

General Clauses.

Prevention of Water Percolation.

Section No. 13. It is the very essence of these specifications to secure a railroad structure underground which shall be free from the percolation of ground or outside water. The mixing and placing of the concrete and the placing and protection of the waterproofing shall be with this end in view.

Best Quality of Work.

Section No. 14. All materials and workmanship must be of the best class in every respect, and the Engineer is to be the sole judge of their quality and efficiency.

Rapidity and Safety.

Section No. 15. All the work shall be prosecuted in the manner, according to local conditions, best calculated to promote rapidity in construction, to secure safety to life and property and to reduce to the minimum any interference with abutting property and the public travel. Decking of the streets, paving, or other surface work affecting, or affected by, street traffic shall be prosecuted during such hours as will reduce such interference to a minimum. Night work shall be conducted, in accordance with the directions of the Engineer, so that annoyance to occupants of abutting property shall be reduced to a minimum, and the Engineer may, if in his judgment conditions so require, direct that night work be omitted.

Contract Section Part of System.

Section No. 16. The contract section embraced in this contract is one of a number of contract sections forming part of an extensive rapid transit railroad system, which the interests of the City imperatively require should be completed and put in operation without delay. If the Contractor shall not prosecute his work in such manner as to make it reasonably probable in the judgment of the Engineer that the work will be completed within the time limited, the Contractor, if directed by the Commission, shall increase the number of shifts and the number of men in each shift as may be necessary to insure the completion of the work within the time required by this contract, or within the shortest possible time thereafter.

Emergencies.

Section No. 17. In case of emergencies involving danger to life or property, continuous work with an increased force may be ordered by the Engineer for such time as may be necessary.

Permits.

Section No. 18. No work shall be begun until the Commission shall issue to the Contractor a permit authorizing him to proceed. No permits for excavation will be issued until the Contractor has given satisfactory assurance to the Engineer that the structural iron and steel and other material needed for construction will be available. The Contractor must conduct his work so as to avoid advancing the excavation at any place ahead of the delivery on the work or on property owned or leased by

the City of the structural iron and steel required for such place, unless otherwise permitted by the Engineer. The permits are to be in such form and shall cover such portions of the work as the Commission shall prescribe.

When to Be Filed With Borough President.

Section No. 19. Before any opening is made in the surface of a street, a copy of the permit issued by the Commission shall have been filed with the Borough President not less than five (5) days, unless the Engineer shall expressly direct work to begin within a less period.

Notice Regarding Commencement of Work.

Section No. 20. Before commencing work on any part of the route, whether on the Railroad or on the sewers lying off the line of the Railroad, the Contractor shall give notice in writing to the Engineer at least one (1) week in advance of his intention to commence such operations; and before commencing manufacture, or resuming manufacture, if the same has been suspended, of any article called for by these specifications, notice shall be given to the Engineer in writing at least one (1) week in advance, with the name and address of the maker and the amount and description of the material to be manufactured.

Shafts and Dumping Platforms—Plans Required.

Section No. 21. Detailed plans showing the proposed location and proposed methods of construction of shafts, dumping platforms and all other appurtenances in connection with the shaft working plants shall be submitted to the Engineer and receive his approval before permits will be granted for such plants and appurtenances to be constructed and put in operation.

City Ordinances and Regulations to Be Observed.

Section No. 22. In all operations connected with the Works, all ordinances of the City, and of the Board of Health, so far as they may be valid and operative with respect thereto, and all laws of this State which are now applicable to and control or limit in any way the actions of those engaged in the work or affecting the materials belonging to them, shall be respected and strictly complied with, and the Contractor shall further strictly comply with all applicable Federal, State and Municipal regulations regarding the transportation in and around the City and Harbor of materials used in, or in connection with, the work.

Requirements of Borough President, etc., to Be Observed.

Section No. 23. Whenever the construction of the Works under the provisions of this contract shall interfere with, disturb or endanger any sewer, water pipe, gas pipe, or other duly authorized subsurface structure, the work of construction at such points shall be conducted in accordance with the reasonable requirements of the Borough President or of the Commissioner of Water Supply, Gas and Electricity or other officer or local authority having the care of and the jurisdiction or control over such subsurface structures so interfered with, disturbed or endangered.

Building and Water Permits; Shut-Offs for Water Pipes, etc.

Section No. 24. The Contractor shall procure all permits necessary or requisite for the underpinning of buildings and the reconstruction thereof; he shall, at his own cost, provide for the water supply necessary for his work and he shall bear the cost of any inspection charge in connection therewith. He shall bear the expense absolutely necessary in the bagging of gas pipes where it is necessary to cut off the supply of same, except where it is necessary to resort to by-passing as provided in Section No. 52, and of the shutting off and restoration of the flow in water mains where such work applies to the maintenance and support thereof as provided in Section No. 59 of the specifications.

Storage on Cross Streets.

Section No. 25. On cross streets adjacent to the work, only such material may be stored as may be necessary, in case of an emergency, to sheet or to support the excavation; or a reasonable amount of such structural and other material as may be absolutely necessary to avoid delay in construction may be stored; such material must not be allowed to accumulate, but must be replenished from day to day. The amount to be so allowed shall be determined by the Engineer.

No material of any nature shall be stored along the streets occupied by the Railroad.

Material Stored.

Section No. 26. Excavated sand, gravel or stone that in the judgment of the Engineer is suitable for use in mortar, concrete, or masonry, also structural and other material to be used in the work, may be stored in such locations and for such periods as are approved by the Engineer.

Approval of Engineer Revocable.

Section No. 27. In any case material may be so stored only with the approval of the Engineer, revocable at any time; and if so ordered, such material shall be removed immediately on receipt of the order, or within a period of time to be therein stated.

Access to Fire Hydrants.

Section No. 28. Wherever the work is being carried on, free access must be given to every fire hydrant and fire alarm box, and when required, hydrants shall be extended by suitable tube or piping to an accessible point as approved by the Engineer, and to the satisfaction of the Chief of the Fire Department. Materials must not be piled at any time or place within ten (10) feet of any fire hydrant or fire alarm box; and where materials are unavoidably piled or placed in the vicinity of a fire hydrant or fire alarm box, and to such height as to obscure a sight of the same, the position of such hydrant or fire alarm box shall be indicated by suitable signals, both day and night.

Fire Alarm Telegraph System to Be Safeguarded.

The Contractor shall guard, maintain and protect the existing wires, cables, ducts, manholes, posts and poles of the Fire Department. He shall not cause the interruption of the existing Fire Department Fire Alarm Telegraph service. No Fire Department wire, cable, duct, manhole, post or pole shall be disturbed except in the presence of a representative of the Bureau of Fire Alarm Telegraph. In case of the disturbance of any of the former, the same shall be restored to its existing condition by the Contractor at his own expense.

Work to Be Cleared.

Section No. 29. At his own expense and as directed from time to time by the Engineer, the Contractor is to clear the work, streets and all public places occupied by him of all refuse and rubbish that may accumulate from any source whatever and leave them in a neat condition; but this is in no way to be construed as placing upon the Contractor the usual duties of the Street Cleaning Department.

Assistance to Be Rendered to Owners of Buildings.

Section No. 30. Where access to any adjacent property is temporarily cut off, owing to the occupancy of the street by the Contractor, he must, at his own cost, render every assistance to the owner or occupant in handling such materials of any description, including all material to be removed by the Department of Street Cleaning, that has to be taken to or removed from such property; such material shall be taken to or from the nearest accessible point that in the opinion of the Engineer is convenient for handling.

Waste Material.

Section No. 31. Waste material of any character will under no conditions be permitted to remain on the streets, but must immediately on its becoming unfit for use in the work be carted away and disposed of by the Contractor as hereinbefore provided; nor shall such materials be allowed to accumulate in the trenches.

Conveniences for Men.

Section No. 32. Necessary conveniences, properly secluded from public observation, shall be constructed and maintained by the Contractor at his own expense wherever needed for the use of the Contractor's employees, to the satisfaction of the Engineer and the sanitary authorities.

Fences.

Section No. 33. Wherever necessary the Contractor shall erect and maintain at his own expense fences for the protection of adjoining property and of the adjoining public places.

Advertisements Forbidden.

Section No. 34. The using of fences and buildings during construction for advertising purposes, other than the name and address of the Contractor, is forbidden; all temporary buildings and fences erected by the Contractor shall be neat in appearance and shall be painted as directed by the Engineer.

Barricades.

Section No. 35. Barricades and bridges shall be erected by the Contractor at his own cost, for the protection of the work or use of the public; they shall be substantial in character and neat in appearance.

Construction Drawings.

Section No. 36. The Engineer will prepare and furnish to the Contractor, from time to time as required, drawings and plans amplifying such details of the con-

tract drawings as may be necessary, and drawings and plans necessary to show the adjustment and reconstruction of all surface and subsurface structures wherever the reconstruction of the same is necessitated by the construction of the Railroad. These plans must be strictly followed, unless local conditions should develop during construction, suggesting changes, when, with the approval of the Engineer, such changes may be permitted.

Working and Shop Drawings.

Section No. 37. The Contractor shall make all working or shop drawings which may be required in addition to the contract drawings, or in addition to such other drawings as the Commission may issue in amplification of such contract drawings, as explained above. All working or shop drawings shall be submitted in duplicate to the Engineer for his approval, which approval shall be indicated by his countersigning one set of such working or shop drawings and returning the same to the Contractor. Should the working or shop drawings be not approved by the Engineer, then the Engineer shall return one set of such working or shop drawings, with the necessary corrections and changes indicated thereon; and the Contractor must make such corrections and changes, and again submit plans in duplicate for the approval of the Engineer; and no work called for by said working or shop drawings shall be done until the approval of the Engineer is obtained, which must be given or refused within twenty (20) working days after delivery to him at his office of such plans in duplicate. Immediately upon final approval of such working or shop drawings by the Engineer, the Contractor shall furnish the Commission four additional copies of such approved drawings.

Lines and Grades.

Section No. 38. During the progress of the work the Commission will give, through the Engineer, to the Contractor, suitable points, marks or benches, indicating the line and grade of the Railroad and of the sewers; such points or bench marks to be established at such intervals as the Engineer deems necessary for the Contractor to be able to perform his work. The principal lines and grades are to be given by the Engineer, who may change them from time to time as may be authorized and directed by the Commission. The stakes and marks given by the Engineer shall be carefully preserved by the Contractor, who shall give to the Engineer all necessary assistance and facilities for establishing benches and plugs and for making measurements.

Notice, How Given.

Section No. 39. When the Contractor is absent from any part of the work where it may be necessary to give instructions, orders will be given by the Engineer to, and shall be received and promptly obeyed by the superintendent or overseer of the Contractor, who may have charge of the particular work in relation to which the orders are given, and a confirmation in writing of such orders will be given to the Contractor by the Engineer if so requested.

Imperfect Work.

Section No. 40. Any imperfect construction which may be discovered before the final acceptance of the work shall be corrected immediately on the requirement of the Engineer and at the Contractor's expense, notwithstanding that it may have been overlooked by the proper inspector.

Damaged Work to Be Replaced.

Section No. 41. All work of whatever kind which during its progress and before its final acceptance shall become damaged from any cause shall be broken up or removed and be replaced by good and sound work at the Contractor's expense.

Condemned Materials to Be Removed.

Section No. 42. If any material brought on the ground for use in the work or selected for the same shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials as may be directed by the Engineer.

Competent Men.

Section No. 43. The Contractor shall employ only competent, skillful and faithful men to do the work. Whenever the Engineer shall notify the Contractor in writing that in his opinion any man on the work is incompetent, unfaithful or disorderly, such man shall be discharged from the work and shall not again be employed on it.

3.

General Manner of Prosecution and Maintenance of Traffic.

Access to Buildings, Etc.

Section No. 44. No building shall, without the consent of the occupant, and after notice to the Engineer, be deprived of means of access thereto and, where streets are open suitable bridges shall be built and maintained, at the Contractor's expense, to permit owners and occupants to reach their premises. Where necessary, proper and easy means for passengers to reach or leave street cars shall be maintained.

Contiguous Contract Sections.

Section No. 45. On the division line of contiguous contract sections, the Engineer will decide any matters in the details of construction within a limit of twenty feet on either side of the line where the work of contractors may be in conflict, and direct which of the contractors shall complete the details of construction within such limits.

Conduct of Work.

Section No. 46. Generally the Contractor will be permitted to conduct his work in the most expeditious manner possible, having due regard for the safety of persons and property and facilities for traffic and under such instructions as the Engineer may give from time to time.

Facilities for Travel.

Section No. 47. All necessary facilities are to be furnished by the Contractor for the benefit of street travel, both on longitudinal and cross streets.

Decking of Streets and Sidewalks.

Section No. 48. In order to provide the minimum interference with traffic and the minimum inconvenience to abutting property owners, during the construction of the Railroad, on all parts of the work the streets and sidewalks shall, except as hereinafter specifically provided, be substantially decked or covered over; and every precaution must be taken to keep traffic free from interruption.

Street Intersections.

Section No. 49. The street intersections, except in cases where open trench excavation without cover is permitted, shall be kept at all times open for traffic for their full width. The street intersections in cases where open trench excavation without cover is permitted must be kept at all times open to traffic for at least one-half the width of the cross-roadway, except that cross-roadways in which surface railroads are located shall be kept at all times open to traffic for their full width.

Where portions of a street intersection are opened the same shall be substantially and neatly bridged for foot traffic. In all cases the Contractor shall at all times keep all the street crossings on the lines of the sidewalks in a clean and neat condition, bridging gutters and low places where water might collect.

Close Observation of Above Requirements.

Section No. 50. The Commission will insist upon the close observance of the above requirements, and no departure therefrom will be allowed, excepting upon the written permission of the Commission.

Openings for Ventilation.

Section No. 51. Wherever the excavations are decked, or where gases are liable to accumulate, suitable openings shall be provided for proper ventilation.

By-passing Gas Mains.

Section No. 52. Wherever the excavations are decked, all gas pipes the services of which cannot temporarily be dispensed with shall be by-passed, if directed by the Engineer; temporary pipes to take their place being laid upon, above or below the street or sidewalk surfaces. These temporary by-passing pipes, if laid upon or below the street surface, will be paid for at the prices stipulated in Schedule Item 99-A. If laid above the street or sidewalk surface, they will be paid for at the prices stipulated in Schedule Item 99-B. These prices are to include the cost of all excavation, backfilling, temporary paving (including maintenance of same), and the restoration of the permanent paving both upon the completion of the by-passing installation and upon the restoration of the original system, and all other works, labor and material of whatever character necessary to provide a temporary and independent system of gas supply to take the place of the system originally in the street; to connect such temporary system with the mains in the intersecting streets where necessary; to transfer all house and lamp services to such temporary system where necessary; to remove and dispose of the material of such temporary system and to restore the original system; and no other allowance will be made therefor under any other Schedule Item or otherwise. No allowance will be made for the maintenance of such temporary system. All maintenance will be considered as of the original system, and will be as provided for in Section No. 59. All pipe included in Schedule Item 99-A shall be wrought-iron of a quality and manu-

facture to be approved by the Engineer. If laid on a trestle (Item 99-B) the pipes shall be flanged, or of other approved connection, and sizes 20 inches in diameter or less shall be rolled wrought-iron pipe; for sizes above 20 inches in diameter, they shall be riveted and calked steel pipe, made from plates $\frac{1}{4}$ -inch in thickness.

Temporary Pipes, Etc.

Section No. 53. Temporary pipes, if laid upon or above the street or sidewalk surfaces, shall be neatly and substantially placed in a manner to cause the minimum of inconvenience to the abutting property owners and to the public. Where by-passing pipes are to cross a street overhead, the trestles must be of such a height as to give a minimum clear head room underneath the pipe and its supports of 14 feet.

The trestles to support by-passing pipes shall be of a design approved by the Engineer and shall be painted an approved color.

In General Work to Proceed Under Cover.

Section No. 54. In general, work will as provided herein be carried on under covered roadways. In exceptional cases, however, where rock is within a few feet of the street or sidewalk surface, it may be impracticable to operate drills while the street is covered, until a sufficient depth of excavation has been obtained. In such cases such latitude will be allowed the Contractor as may prove absolutely necessary for the execution of his contract, and as the Engineer with the approval of the Commission may deem advisable, after a thorough understanding of the exact conditions and necessities has been determined.

4.

Street Railroad Tracks, Mains and Other Surface, Subsurface and Overhead Structures.

Notice to be Given to Interested Parties.

Section No. 55. Notice is to be given by the Contractor to all individuals, companies and the proper City officials, owning or having charge of surface, subsurface or overhead structures along any part of the work, of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper parties, officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans for Rearrangement Procedure.

Section No. 56. In the rearrangement of surface, subsurface or overhead structures requiring removal and relaying or reconstruction due to interference with the railroad structure a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plans, such changes will then be made, if in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer will be final.

Reconstruction or Relaying, etc.

Section No. 57. Whenever it becomes necessary to cut, move, change or reconstruct any surface, subsurface or overhead structures, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such structures.

Reasonable Dispatch.

Section No. 58. All work of reconstruction or alteration shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures.

Maintenance, Support, Etc.—Protection from Injury.

Section No. 59. The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for the usual service and to the reasonable satisfaction of the owners, all surface, subsurface and overhead structures and all their appurtenances encountered or affected during the prosecution of his work; if the maintenance of such usual service makes it necessary, the Contractor shall temporarily remove and relay or reconstruct any such surface, subsurface and overhead structure and shall restore the same prior to the completion of this contract. Also, in order that access may be had in emergencies to gates or valves on water or gas mains and to electric manholes, where such gates or valves and manholes are decked over, trap doors of a suitable size shall be provided in the decking. All surface, subsurface and overhead structures and their appurtenances, and all surfaces of whatever character along the line of the work shall be protected from injury, and the Contractor shall fully restore such surface, subsurface or overhead structures and their appurtenances or surfaces to, and shall leave them in, as useful, safe, durable and good a condition as existed before construction was begun. All the above, including also all changes of surface, subsurface or overhead structures and their appurtenances made by the Contractor for his own convenience in executing his work shall be done at the Contractor's own expense and included in the prices stipulated in the Schedule for excavation except as otherwise herein specifically provided.

Necessary Permanent Changes of Pipes.

Section No. 60. Changes of water, gas or other scheduled pipes, all their service connections and all other appurtenances of whatever character made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction of such scheduled pipes, all their service connections and all other appurtenances of whatever character in other than the original position, will be paid for at the prices stipulated in Schedule Items 79, 82, 84, 88, 90, 91, 92, 93, 94, 95, 96 and 99-C; and Items 102, 103 and 106; and Item 122-A; and Item 125. In addition to the above scheduled pipes, Supplementary Drawing No. E-51 exhibits certain high pressure water mains and appurtenances to be laid and which the Department of Water Supply, Gas and Electricity has under contract from and including 34th Street, south; also a proposed system from 34th Street, north, which may be installed within the contract period. The maintenance of such high pressure mains, if and when laid is to be as provided for in Section No. 59; any changes made necessary because of physical interference with the Railroad structure and requiring the removal, relaying or reconstruction of such high pressure mains and their appurtenances in other than their original positions will be paid for as provided in this section. These prices are per lineal foot of such scheduled pipes laid including the removal, relaying or reconstruction of all their service connections, all other appurtenances of whatever character and all other work, labor and material incidental thereto; and no other allowance will be made therefor under any other Schedule Item or otherwise; excepting that:

Payment for New Pipes.

(1) If new pipes have to be provided to take the place of such scheduled pipes, and are ordered by the Engineer, such new pipes will be paid for in addition to the price paid for laying, etc., at the prices stipulated in Schedule Items 100, 100-A, 101, 101-A, 107, 108, 124-A and 126, which prices are to cover the cost of the delivery of the new pipes actually used as measured in place in the work, and the removal and disposal of the old pipes. This does not relieve the Contractor, however, of his obligation to preserve all pipe that is in good condition and can be reclaimed and used, in order to avoid the necessity whenever possible of providing new pipe.

Payment for Excavation Outside of Lines.

(2) If such scheduled pipes in their new locations are outside of the ordered net lines for excavation for the railroad structure, necessitating additional excavation and restoration of street surface, such excavation will be paid for at the prices stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section No. 92) and such restoration of street surface will be paid for at the prices stipulated in Items 30 (a), (e) and (j). Any additional excavation and restoration of street surface, outside of the ordered net lines for excavation, necessitated for service connections and for other appurtenances will not be measured and paid for separately, but compensation therefor will be deemed to be included in the above prices covering similar work for scheduled pipes.

Measurements in Pipe Excavation.

Section No. 61. In the estimate and payment for earth excavation for pipe laying, allowance will be made for a width of trench two (2) feet wider than the interior diameter of the pipe and a depth six (6) inches deeper than the invert of the pipe, measured from the surface of the street on the line of the trench. Where, in the opinion of the Engineer, the trench for laying pipes 30 inches or more in diameter requires to be close sheeted, allowance will be made in the estimate for payment for earth excavation for a width of trench three (3) feet wider than the interior diameter of the pipe, when the trench is so sheeted.

For the building of valve chambers and other structures and for the setting of valves, valve boxes and hydrants, the total excavation to be allowed will be that within vertical planes one foot outside of the outside lines of such structures, valves, valve boxes or hydrants, the depth being taken as the distance from the street surface to the lowest part of the structure or appurtenance.

At the intersection of two trenches or at the intersection of a pipe or other trench with an excavation made by the Contractor under orders from the Engineer, for any purpose whatsoever, the cubical contents of the intersection will be allowed only once. Under no circumstances will a double allowance be made for any excavation.

In the measurement for rock excavation for pipe laying, allowance will be made for a width of trench two (2) feet wider than the interior diameter of the pipe; allowance for the depth of trench will be eight (8) inches deeper than the outside of the barrel of 20-inch or smaller pipe and twelve (12) inches deeper than the outside of the barrel of pipe of larger diameter, measured from the surface of the rock on the line of the trench. No additional allowance will be made for the removal of rock under the bells to give the required clearance.

For building of valve chambers and other structures and for the setting of valves, valve boxes and hydrants, the total amount of rock excavation to be allowed will be the same as specified for earth excavation, except that the depth will be taken as the distance from the surface of the rock to the lowest part of the structure or appurtenance.

Necessary Permanent Changes of Electric Conduits and Ducts.

Section No. 62. Changes of electric conduits or ducts and their appurtenances found in the streets (other than street railway ducts, payment for which is provided for in Schedule Item 75) made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction in other than the original position, will be paid for at the prices stipulated in Schedule Items 127 and 127-A. The price per duct foot as provided in Schedule Item 127 is to include the cost of all ducts in place (except wrought iron pipe used as ducts); of all manholes, vaults, service boxes and their appurtenances; of drawing cables and providing new cables where necessary; of the proper restoration of all services that may be affected by the changes in the duct lines; of such excavation and restoration of street surface as may be necessitated by the changes in the duct lines, and all other work, labor and material incidental to and necessary for the completed duct lines, and no other allowance will be made therefor under any other Schedule Item or otherwise. Wrought iron pipe used as ducts (including Edison tube mains) will be paid for at the prices stipulated in Schedule Item 127-A, which prices are to include all work specified under Item 127.

Maintenance of Railroads—Surface Railroads.

Section No. 63. The Contractor shall maintain and support, in a manner that will cause the minimum interference with traffic, all surface and subsurface railroads along the line of or crossing the line of the work.

The Contractor shall maintain and support, both temporarily and permanently, in a safe condition all street surface railroads, including ducts, cables and all other appurtenances of such railroads; he shall rebuild either in their original or in new locations all parts of such surface railroads, including ducts, cables and all other appurtenances of such railroads, whose reconstruction or rebuilding may be necessitated by the construction of the work. Payment therefor (including the cost of such work in the cases of on and off line sewer trenches) will be at the rates specified in Schedule Item 75, which prices will include the cost of all work, labor and material incidental thereto, and no other allowance will be made therefor under any other Schedule Item or otherwise. Where permanent masonry supports are required and added, and where additional vaults in excess of the number existing are required and constructed to give equivalent facilities, they will be paid for at the prices given in the Schedule for the several classes of work or material applicable thereto.

Subsurface Railroad.

The Contractor shall support and maintain both temporarily and permanently in a safe condition, all subsurface railroads and their appurtenances. Payment therefor shall be deemed included in the price of excavation, Schedule Items 1 and 3.

Facilities to Be Given Owners to Make Extensions.

Section No. 64. In the event of the owners or the City desiring to make any addition, alteration or extension to their structures, or do any work to or in connection with surface, subsurface or overhead structures owned by them, or it, or to lay any new structure in or across a street occupied by the Works at the time the work under this contract is in progress, the Contractor, by written permission, shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission. The written permission from the Contractor, with three prints of plans or sketches, or a description indicating the proposed work in detail, shall be submitted to and approved by the Engineer before any work shall be proceeded with under such written permission.

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Excavation.

Width of Excavation.

Section No. 65. Special care must be taken to avoid damage wherever excavation under cover is being done or where open excavation is permitted. The width of such excavation shall not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work. All excavations shall be of such width, in addition to that of the Railroad, as shall be necessary, in the opinion of the Engineer, for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the Railroad.

Depth of Trenches.

Section No. 66. Trenches shall be excavated to such depth, both in soft ground and in rock, as may be necessary to permit the laying of such concrete bed, special foundation or drain pipes as may be deemed necessary by the Engineer.

Sides to Be Secured.

Section No. 67. The sides of the excavations shall be secured against slips by suitable sheet piling or sheeting, held in place by braces, shores or walling timbers, special precautions being taken where there is additional pressure, due to the presence of buildings or other structures. Where a movement of the ground might cause the settlement of an adjacent building, the sheeting must be started, if near the building, before the elevation of the bottom of the foundation of the building is reached; if away from the building, at such depth of the excavation as the Engineer may permit; and the excavation must not be made in advance of or below the bottom of the sheeting.

Filling Back of Sheetings.

Section No. 68. Sheetings shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Buildings Underpinned Within Certain Limits.

Section No. 69.

(1) Except for special reasons which the Engineer shall approve, the Contractor, in accordance with Section No. 67, shall secure buildings adjacent to the excavation which are supported on firm soils when a slope represented by 1 foot vertical to 2 feet horizontal, inclined downward from the bottom outer edge of the building foundation, intersects or passes beneath the bottom outer edge of the completed subway structure; or

Underpinning Defined.

(2) When necessary to secure adjacent buildings or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall safely and permanently underpin adjacent buildings the foundations of which are above the bottom of the adjacent subway excavation. By underpinning is meant such method of construction as will transmit the foundation loads directly through the underpinning structure to such lower level as is necessary to secure the buildings and relieve the adjacent ground from unusual lateral pressures which might endanger the safety of the subway structure when completed. The underpinning shall be designed to furnish a safe and permanent support for each independent building. To accomplish this result, the Contractor shall use such methods of underpinning, pneumatic or otherwise, as special conditions may require and the Engineer shall approve; or

Securing Other Than Underpinning.

(3) In firm soils, the Contractor may in lieu of underpinning construct such form of permanent construction, subject to the approval of the Engineer, as may be necessary to maintain, protect and secure the adjacent buildings against displacement, provided the safety of the completed structure will not be endangered by unusual pressures from such adjacent buildings.

Before the work is proceeded with, the Contractor shall submit to the Engineer drawings in duplicate indicating the proposed typical and special methods of underpinning; or of maintaining, protecting and securing the adjacent buildings.

facture to be approved by the Engineer. If laid on a trestle (Item 99-B) the pipes shall be flanged, or of other approved connection, and sizes 20 inches in diameter or less shall be rolled wrought-iron pipe; for sizes above 20 inches in diameter, they shall be riveted and calked steel pipe, made from plates $\frac{1}{4}$ -inch in thickness.

Temporary Pipes, Etc.

Section No. 53. Temporary pipes, if laid upon or above the street or sidewalk surfaces, shall be neatly and substantially placed in a manner to cause the minimum of inconvenience to the abutting property owners and to the public. Where by-passing pipes are to cross a street overhead, the trestles must be of such a height as to give a minimum clear head room underneath the pipe and its supports of 14 feet.

The trestles to support by-passing pipes shall be of a design approved by the Engineer and shall be painted an approved color.

In General Work to Proceed Under Cover.

Section No. 54. In general, work will as provided herein be carried on under covered roadways. In exceptional cases, however, where rock is within a few feet of the street or sidewalk surface, it may be impracticable to operate drills while the street is covered, until a sufficient depth of excavation has been obtained. In such cases such latitude will be allowed the Contractor as may prove absolutely necessary for the execution of his contract, and as the Engineer with the approval of the Commission may deem advisable, after a thorough understanding of the exact conditions and necessities has been determined.

4.

Street Railroad Tracks, Mains and Other Surface, Subsurface and Overhead Structures.

Notice to be Given to Interested Parties.

Section No. 55. Notice is to be given by the Contractor to all individuals, companies and the proper City officials, owning or having charge of surface, subsurface or overhead structures along any part of the work, of his intention to commence operations along such part of the route, at least one (1) week in advance, and the Contractor shall file with the Engineer at the same time a copy of said notice; and he shall co-operate with the proper parties, officers or officials in charge of such structures and shall furnish them with all reasonable facilities to inspect the methods of caring for their property.

Plans for Rearrangement Procedure.

Section No. 56. In the rearrangement of surface, subsurface or overhead structures requiring removal and relaying or reconstruction due to interference with the railroad structure a tentative plan will be made by the Engineer, which will be submitted to the parties interested; if any reasonable changes are then requested by any of the said parties within ten days after the submission of the tentative plans, such changes will then be made, if in the judgment of the Engineer they will best conserve the interest of all parties concerned; a further plan will then be made which, on the approval of the Engineer will be final.

Reconstruction or Relaying, etc.

Section No. 57. Whenever it becomes necessary to cut, move, change or reconstruct any surface, subsurface or overhead structures, or connections therewith, such work shall be done according to the reasonable satisfaction of the owners of such structures.

Reasonable Dispatch.

Section No. 58. All work of reconstruction or alteration shall be done with reasonable dispatch, and facilities are to be provided so that said work will interfere as little as possible with the practical working and use of such structures.

Maintenance, Support, Etc.—Protection from Injury.

Section No. 59. The Contractor shall at all times, by suitable bridging or other supports, maintain and support in an entirely safe condition for the usual service and to the reasonable satisfaction of the owners, all surface, subsurface and overhead structures and all their appurtenances encountered or affected during the prosecution of his work; if the maintenance of such usual service makes it necessary, the Contractor shall temporarily remove and relay or reconstruct any such surface, subsurface and overhead structure and shall restore the same prior to the completion of this contract. Also, in order that access may be had in emergencies to gates or valves on water or gas mains and to electric manholes, where such gates or valves and manholes are decked over, trap doors of a suitable size shall be provided in the decking. All surface, subsurface and overhead structures and their appurtenances, and all surfaces of whatever character along the line of the work shall be protected from injury, and the Contractor shall fully restore such surface, subsurface or overhead structures and their appurtenances or surfaces to, and shall leave them in, as useful, safe, durable and good a condition as existed before construction was begun. All the above, including also all changes of surface, subsurface or overhead structures and their appurtenances made by the Contractor for his own convenience in executing his work shall be done at the Contractor's own expense and included in the prices stipulated in the Schedule for excavation except as otherwise herein specifically provided.

Necessary Permanent Changes of Pipes.

Section No. 60. Changes of water, gas or other scheduled pipes, all their service connections and all other appurtenances of whatever character made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction of such scheduled pipes, all their service connections and all other appurtenances of whatever character in other than the original position, will be paid for at the prices stipulated in Schedule Items 79, 82, 84, 88, 90, 91, 92, 93, 94, 95, 96 and 99-C; and Items 102, 103 and 106; and Item 122-A; and Item 125. In addition to the above scheduled pipes, Supplementary Drawing No. E-51 exhibits certain high pressure water mains and appurtenances to be laid and which the Department of Water Supply, Gas and Electricity has under contract from and including 34th Street, south; also a proposed system from 34th Street, north, which may be installed within the contract period. The maintenance of such high pressure mains, if and when laid is to be as provided for in Section No. 59; any changes made necessary because of physical interference with the Railroad structure and requiring the removal, relaying or reconstruction of such high pressure mains and their appurtenances in other than their original positions will be paid for as provided in this section. These prices are per lineal foot of such scheduled pipes laid including the removal, relaying or reconstruction of all their service connections, all other appurtenances of whatever character and all other work, labor and material incidental thereto; and no other allowance will be made therefor under any other Schedule Item or otherwise; excepting that:

Payment for New Pipes.

(1) If new pipes have to be provided to take the place of such scheduled pipes, and are ordered by the Engineer, such new pipes will be paid for in addition to the price paid for laying, etc., at the prices stipulated in Schedule Items 100, 100-A, 101, 101-A, 107, 108, 124-A and 126, which prices are to cover the cost of the delivery of the new pipes actually used as measured in place in the work, and the removal and disposal of the old pipes. This does not relieve the Contractor, however, of his obligation to preserve all pipe that is in good condition and can be reclaimed and used, in order to avoid the necessity whenever possible of providing new pipe.

Payment for Excavation Outside of Lines.

(2) If such scheduled pipes in their new locations are outside of the ordered net lines for excavation for the railroad structure, necessitating additional excavation and restoration of street surface, such excavation will be paid for at the prices stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section No. 92) and such restoration of street surface will be paid for at the prices stipulated in Items 30 (a), (e) and (j). Any additional excavation and restoration of street surface, outside of the ordered net lines for excavation, necessitated for service connections and for other appurtenances will not be measured and paid for separately, but compensation therefor will be deemed to be included in the above prices covering similar work for scheduled pipes.

Measurements in Pipe Excavation.

Section No. 61. In the estimate and payment for earth excavation for pipe laying, allowance will be made for a width of trench two (2) feet wider than the interior diameter of the pipe and a depth six (6) inches deeper than the invert of the pipe, measured from the surface of the street on the line of the trench. Where, in the opinion of the Engineer, the trench for laying pipes 30 inches or more in diameter requires to be close sheeted, allowance will be made in the estimate for payment for earth excavation for a width of trench three (3) feet wider than the interior diameter of the pipe, when the trench is so sheeted.

For the building of valve chambers and other structures and for the setting of valves, valve boxes and hydrants, the total excavation to be allowed will be that within vertical planes one foot outside of the outside lines of such structures, valves, valve boxes or hydrants, the depth being taken as the distance from the street surface to the lowest part of the structure or appurtenance.

At the intersection of two trenches or at the intersection of a pipe or other trench with an excavation made by the Contractor under orders from the Engineer, for any purpose whatsoever, the cubical contents of the intersection will be allowed only once. Under no circumstances will a double allowance be made for any excavation.

In the measurement for rock excavation for pipe laying, allowance will be made for a width of trench two (2) feet wider than the interior diameter of the pipe; allowance for the depth of trench will be eight (8) inches deeper than the outside of the barrel of 20-inch or smaller pipe and twelve (12) inches deeper than the outside of the barrel of pipe of larger diameter, measured from the surface of the rock on the line of the trench. No additional allowance will be made for the removal of rock under the bells to give the required clearance.

For building of valve chambers and other structures and for the setting of valves, valve boxes and hydrants, the total amount of rock excavation to be allowed will be the same as specified for earth excavation, except that the depth will be taken as the distance from the surface of the rock to the lowest part of the structure or appurtenance.

Necessary Permanent Changes of Electric Conduits and Ducts.

Section No. 62. Changes of electric conduits or ducts and their appurtenances found in the streets (other than street railway ducts, payment for which is provided for in Schedule Item 75) made necessary because of physical interference with the railroad structure, and requiring the removal, relaying or reconstruction in other than the original position, will be paid for at the prices stipulated in Schedule Items 127 and 127-A. The price per duct foot as provided in Schedule Item 127 is to include the cost of all ducts in place (except wrought iron pipe used as ducts); of all manholes, vaults, service boxes and their appurtenances; of drawing cables and providing new cables where necessary; of the proper restoration of all services that may be affected by the changes in the duct lines; of such excavation and restoration of street surface as may be necessitated by the changes in the duct lines, and all other work, labor and material incidental to and necessary for the completed duct lines, and no other allowance will be made therefor under any other Schedule Item or otherwise. Wrought iron pipe used as ducts (including Edison tube mains) will be paid for at the prices stipulated in Schedule Item 127-A, which prices are to include all work specified under Item 127.

Maintenance of Railroads—Surface Railroads.

Section No. 63. The Contractor shall maintain and support, in a manner that will cause the minimum interference with traffic, all surface and subsurface railroads along the line of or crossing the line of the work.

The Contractor shall maintain and support, both temporarily and permanently, in a safe condition all street surface railroads, including ducts, cables and all other appurtenances of such railroads; he shall rebuild either in their original or in new locations all parts of such surface railroads, including ducts, cables and all other appurtenances of such railroads, whose reconstruction or rebuilding may be necessitated by the construction of the work. Payment therefor (including the cost of such work in the cases of on and off line sewer trenches) will be at the rates specified in Schedule Item 75, which prices will include the cost of all work, labor and material incidental thereto, and no other allowance will be made therefor under any other Schedule Item or otherwise. Where permanent masonry supports are required and added, and where additional vaults in excess of the number existing are required and constructed to give equivalent facilities, they will be paid for at the prices given in the Schedule for the several classes of work or material applicable thereto.

Subsurface Railroad.

The Contractor shall support and maintain both temporarily and permanently in a safe condition, all subsurface railroads and their appurtenances. Payment therefor shall be deemed included in the price of excavation, Schedule Items 1 and 3.

Facilities to Be Given Owners to Make Extensions.

Section No. 64. In the event of the owners or the City desiring to make any addition, alteration or extension to their structures, or do any work to or in connection with surface, subsurface or overhead structures owned by them, or it, or to lay any new structure in or across a street occupied by the Works at the time the work under this contract is in progress, the Contractor, by written permission, shall give said owners or the City all reasonable opportunity to perform such work; provided such work or alteration for the benefit of the owners of subsurface structures does not cause the Contractor any serious loss or delay, as shall be determined by the Commission. The written permission from the Contractor, with three prints of plans or sketches, or a description indicating the proposed work in detail, shall be submitted to and approved by the Engineer before any work shall be proceeded with under such written permission.

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Excavation.

Width of Excavation.

Section No. 65. Special care must be taken to avoid damage wherever excavation under cover is being done or where open excavation is permitted. The width of such excavation shall not exceed the width actually necessary, in the opinion of the Engineer, for the proper prosecution of the work. All excavations shall be of such width, in addition to that of the Railroad, as shall be necessary, in the opinion of the Engineer, for the proper and expeditious progress of the work, and to permit the laying and readjusting of all sewers, mains, subways and other subsurface structures encountered along the route and contiguous to the Railroad.

Depth of Trenches.

Section No. 66. Trenches shall be excavated to such depth, both in soft ground and in rock, as may be necessary to permit the laying of such concrete bed, special foundation or drain pipes as may be deemed necessary by the Engineer.

Sides to Be Secured.

Section No. 67. The sides of the excavations shall be secured against slips by suitable sheet piling or sheeting, held in place by braces, shores or walling timbers, special precautions being taken where there is additional pressure, due to the presence of buildings or other structures. Where a movement of the ground might cause the settlement of an adjacent building, the sheeting must be started, if near the building, before the elevation of the bottom of the foundation of the building is reached; if away from the building, at such depth of the excavation as the Engineer may permit; and the excavation must not be made in advance of or below the bottom of the sheeting.

Filling Back of Sheetings.

Section No. 68. Sheetings shall be driven wherever possible, but when it is placed against the sides of the excavation, the spaces or voids back of the sheeting must be immediately and carefully filled with suitable material to prevent as far as possible the natural ground back of the sheeting from moving.

Buildings Underpinned Within Certain Limits.

Section No. 69. (1) Except for special reasons which the Engineer shall approve, the Contractor, in accordance with Section No. 67, shall secure buildings adjacent to the excavation which are supported on firm soils when a slope represented by 1 foot vertical to 2 feet horizontal, inclined downward from the bottom outer edge of the building foundation, intersects or passes beneath the bottom outer edge of the completed subway structure; or

Underpinning Defined.

(2) When necessary to secure adjacent buildings or to prevent bringing an unusual pressure on the structure when completed, the Contractor shall safely and permanently underpin adjacent buildings the foundations of which are above the bottom of the adjacent subway excavation. By underpinning is meant such method of construction as will transmit the foundation loads directly through the underpinning structure to such lower level as is necessary to secure the buildings and relieve the adjacent ground from unusual lateral pressures which might endanger the safety of the subway structure when completed. The underpinning shall be designed to furnish a safe and permanent support for each independent building. To accomplish this result, the Contractor shall use such methods of underpinning, pneumatic or otherwise, as special conditions may require and the Engineer shall approve; or

Securing Other Than Underpinning.

(3) In firm soils, the Contractor may in lieu of underpinning construct such form of permanent construction, subject to the approval of the Engineer, as may be necessary to maintain, protect and secure the adjacent buildings against displacement, provided the safety of the completed structure will not be endangered by unusual pressures from such adjacent buildings.

Before the work is proceeded with, the Contractor shall submit to the Engineer drawings in duplicate indicating the proposed typical and special methods of underpinning; or of maintaining, protecting and securing the adjacent buildings.

Payment for.

Section No. 70. When underpinning of a building is necessary and the work is done as provided in (2) of Section No. 69, payment will be made to the Contractor as, and at the prices, provided in Schedule Item 4; when a building is maintained, protected and secured as provided in (3) of Section No. 69, payment will be made to the Contractor as, and at the price, provided in Schedule Item 4-E; and when a building is secured as provided in (1) of Section No. 69, payment for the work shall be deemed to be included in the prices, stipulated in the Schedule for excavation, as provided in Section No. 92. These prices, Items 4 and 4-E, are per lineal front foot of building underpinned or maintained, protected and secured. The lineal front foot measurement does not mean the perimeter measurement of a building front, along the lines of stoops, bay windows, etc., but the straight front measured along the line parallel to the street building line. Where the subway excavation projects into a transverse street, as at stations, and it is necessary to underpin or to maintain, protect and secure a building, the lineal front foot measurement will be increased by the measurement in such transverse street within the limits of the subway. The prices are to include the payment for all work, labor and material of whatever nature required in connection with underpinning or with maintaining, protecting and securing the building proper, such as side walls, both interior and along transverse (except as noted above) streets; partition walls, both parallel and perpendicular to the building front; interior columns and any other work which may be required, and no other allowance will be made therefor under any other Schedule Item or otherwise. But the prices are not to include the payment for underpinning or for maintaining, protecting and securing vaults, areaways, retaining walls, stoops or porches; the payment for such work, when required, shall be deemed included in the prices for excavation, Schedule Items 1 and 3. In cases where a building has not been underpinned or maintained, protected and secured but it is necessary to underpin or maintain, protect and secure vaults, areaways, retaining walls, stoops or porches, in front of such buildings, the payment for such work shall be deemed included in the prices for excavation, Schedule Items 1 and 3. If ordered by the Engineer, the Contractor shall dig test pits alongside the building foundations to determine the necessity for underpinning or for maintaining, protecting and securing a building. Payment for such test pits will be made to the Contractor as and at the price provided in Schedule Item 2-A.

Payment for Sheetings.

Section No. 71. No payment shall be made to the Contractor for sheeting left in the ground or in the work, unless the Engineer shall in writing require it to be left in, in which case payment shall be made to the Contractor for the sheeting so left in as measured by the Engineer, and at one-half the current market price for new material of the same grade, character and dimensions, and without any allowance or payment for placing the same or the expense thereof. This section applies only to the sheeting in trench work.

Timber for Temporary Purposes.

Section No. 72. All timber used for sheeting, shoring, bracing, decking or other temporary purposes shall be sound and free from any defects that may impair its strength. It shall be provided, placed and removed at the Contractor's own cost and expense. The top or wearing surface of all decking used for carriageways shall be of hard yellow pine (unless otherwise permitted), sound, straight, and free from all shakes and large loose knots. All sheeting and timber used temporarily shall be put in place by skilled mechanics, keyed tight by wedges where necessary, and so arranged as to be withdrawn readily without endangering the adjoining soil.

Vaults of Abutting Property.

Section No. 73. The cost of the removal, where necessary, of all walls or other parts of vaults of abutting property along the line of the Railroad that are within the ordered net lines of excavation is to be included in earth excavation as provided in Section No. 87 (except as provided in Section No. 427), but the restoration of all such walls or other parts of vaults originally within the ordered net lines of excavation, when susceptible of classification, will be paid for at the unit prices specified in the Schedule applicable, in the opinion of the Engineer, to the several classes of work and material involved in such restoration; or when, in the opinion of the Engineer, not susceptible of classification such work will be paid for under Article XII.

The above is not to be construed, however, as applicable to any work beyond the ordered net lines of excavation, which shall be done at the Contractor's own cost and expense.

Vaults Disturbed.

Section No. 74. Wherever vaults of abutting property are broken through or otherwise disturbed, the Contractor shall at his own cost and expense erect a six-inch hollow tile wall laid in Portland cement mortar as a temporary partition on or about the building line, or as directed, that will afford proper protection to the owner or occupant of the adjoining premises.

Rock.

Section No. 75. Ledge rock in place, and boulders within the ordered net lines of excavation whose volume is half a cubic yard or more each, will be considered as rock excavation.

Preparations for Rock Measurement.

Section No. 76. Whenever rock is encountered in the trench, it shall be stripped of earth in sections of not less than twenty feet in length; and the Engineer in charge shall be duly notified, in order that he may measure or cross-section the same.

Blasting.

Section No. 77. Whenever rock or material requiring blasting is encountered in any trench or tunnel, all necessary precautions must be exercised by the Contractor, as required by the ordinances of the City relative to blasting. Explosives shall be used only of such character and strength as may be permitted by the Commission, and the right is reserved for the Engineer to direct that in special cases ordinary blasting powder only, in small charges, shall be used. Blasting shall not be done between the hours of 11 p. m. and 7 a. m., without the express permission of the Engineer, and under such restrictions as he may impose.

Storage of Explosives.

Section No. 78. No larger quantity of explosives shall be kept on the line of the work than will be actually required for the twelve (12) hours of work next ensuing, and it shall be kept under lock the key to which is to be only in the hands of the foreman or other equally trustworthy person. The amount of explosives kept in any one place shall not exceed the limit permitted by any ordinance of the City, or as may be determined by the Commission. Caps and exploders shall not be kept in the same place with dynamite and other explosives. During freezing weather, special precautions shall be taken as to the care and manipulation of dynamite.

Near Pipes and Mains.

Section No. 79. Whenever any pipe or main or wall of the existing subway is encountered in or alongside of the trench, right is reserved to direct that all rock within five (5) feet of the same shall be removed by means other than blasting.

Beyond Net Lines.

Section No. 80. In rock excavation in the trenches for the Railroad the work must be regulated so as to avoid, as far as possible, shattering the rock beyond the ordered net lines of excavation. But, on account of the impracticability of excavating rock to an exact line, an allowance will be made to the Contractor for excess excavation in rock on the sides of the trench, as provided in Section No. 88.

Concrete Packing.

Section No. 81. In rock excavation in trench, when the rock is shattered beyond the ordered net lines of excavation, the concrete on the sides of the structure shall be rammed to the rock. Such concrete will be measured at an allowed thickness of six (6) inches outside of the ordered net lines of excavation, and will be paid for at such thickness at the price stipulated in Schedule Item 6 where the side walls of the subway are not waterproofed and at the price stipulated in Schedule Item 7 where the side walls of the subway are waterproofed. Any concrete outside of such six (6) inch allowed thickness shall be provided and placed at the Contractor's own expense.

Any excess excavation in the bottom of the trench below the net line of excavation will be replaced by a compacted backfill placed at the Contractor's expense (see Section 93).

Close Drilling.

Section No. 82. Generally the central portion of the excavation must, when directed by the Engineer, be kept some distance in advance of the excavation near the sides, and if the rock, owing to its general character and structure, has a tendency to break large, or the strike and dip of the stratification indicate a liability to slip or slide into the excavation, the Contractor must place the drill holes at close intervals on the established lines for excavation, in order to avoid excessive excavation and to preserve the established lines thereof.

Pumping.

Section No. 83. Whenever water is encountered in trenches, the same shall be removed by bailing or pumping, great care being taken when pumping that the surrounding particles of soil be not disturbed or removed. If necessary to prevent such disturbance, the pumping must be done by a series of driven wells whose points are protected by fine wire cloths, the rate of flow at each well being made so slow as not to remove the particles of soil; or the pumping must be done by other means approved by the Engineer. The discharge from all pumps shall be conducted into the adjacent sewers, and the discharge pipes shall be so arranged as to be readily inspected at all times to ascertain if the water is free from particles of soil.

Carts to be Tight.

Section No. 84. All carts, buckets or other vehicles used by the Contractor for the removal of material, shall be tight and so arranged and so loaded as not to spill over. Whenever a cart, bucket or other vehicle so used is leaky or unsuitable, it shall be immediately withdrawn from the work on notification by the Engineer, or his duly qualified assistant, in charge of that portion of the work.

Removed Expedited.

Section No. 85. Excavated material shall be removed expeditiously and disposed of, in any place selected by the Contractor, subject to the ordinances and regulations of the City authorities governing the disposal of such material, and the regulations of the United States Government as to the disposal or dumping of material in and about or near the Harbor of New York.

When Excavated Material May be Taken by City.

Section No. 86. If at any time during the course of construction the City shall desire for City purposes any part of the material excavated, and the cost of such disposal shall not exceed the cost to the Contractor of the method in which he is then disposing of it, the Commission may order such material dumped or turned over to the City at a point designated without cost to the City.

Earth Excavation, Definition of.

Section No. 87. Earth excavation includes the excavation of all materials of whatever nature encountered in the trenches, excepting ledge rock in place and boulders whose volume is half a cubic yard or more each.

Excavation in Trenches, How Measured.

Section No. 88. The net outside width of the railroad structure, as ordered and indicated on the plans, and the depth of the railroad structure, also as ordered and as indicated on the plans, are the ordered net lines of excavation and will govern as to width and depth in the measurements for payment for excavation; except that when rock is encountered, because of the impracticability of excavating to an exact line, an excess excavation on the sides of the trench will be measured at an allowed width of six (6) inches outside of the ordered net lines of excavation and below the top surface of the rock. No excess rock excavation will be allowed below the ordered net line of excavation at the bottom of the trench; except that rock cores, such as island platforms, required to be left within the limits of the excavation will be measured with side slopes of one-half ($\frac{1}{2}$) horizontal to one (1) vertical. No deduction from the volume of excavation determined by the ordered net lines of excavation, will be made on account of vault space or spaces occupied by pipes and other subsurface structures.

No Allowance Outside of Ordered Net Lines.

Section No. 89. There will be no measurement or allowance made nor money paid for excavation outside (below or wider) than the net measurement lines or excess rock excavation lines as above indicated, and no allowance shall be made for any excess excavation caused by slips or slides. It is understood and agreed that for all such matters the Contractor has estimated and allowed in the unit prices of the Schedule.

Change of Street Grade.

Section No. 90. When ordered by the Engineer or when the contract drawings indicate that the grade of any street, park or parkway is to be raised the Contractor shall fill in such places to the changed grade as required, and such work shall be measured and paid for at the price stipulated for earth excavation, Schedule Item 1.

Payment for Excavation.

Section No. 91. Excavation shall be paid for at the price or prices given in Schedule Item 1 for excavation in earth and Item 3 for excavation in rock.

Prices for Excavation to Include.

Section No. 92. The prices herein stipulated for excavation, Schedule Items 1 and 3, are to include the cost of the disposal of the materials excavated, of backfilling, of all decking and bridging, of all sheeting and bracing, and of maintaining and supporting of trenches during and after excavation, of all pumping or bailing, and of the maintenance and support, with all incidental work, labor and material of any kind, of all surface, subsurface and overhead structures and surfaces of whatever nature, and their appurtenances, payment for the maintenance and support of which is not herein elsewhere specifically provided for under other schedule items or otherwise.

6.

Backfilling.

Section No. 93. The trenches at the sides of and over the top of the subway and wherever backfilling is necessary, including any void spaces of vaults or other structures below the ordered net lines of excavation which it may be necessary to fill or grade in order to provide the sub-grade for the Railroad, shall be backfilled with sand, gravel or other good clean earth, free from perishable material and from stones exceeding six (6) inches in diameter, and not containing in any place a proportion of stone of or below that size exceeding one (1) part of stone to five (5) parts of earth. The filling shall be compacted by flooding with water or, in cases where flooding with water is not practicable it shall be compacted by ramming in layers, not exceeding six (6) inches in depth. In rock excavation in trench, where the rock is shattered beyond the established line of excavation, concrete packing or compacted backfill shall be provided in accordance with Section No. 81.

Subsurface Structures—Frozen Material Not Permitted.

Section No. 94. Whenever pipes, sewers, or other subsurface structures are met with, the filling must be carefully packed, rammed and tamped under and about such subsurface structures, using special tools for the purpose. No filling of trenches with frozen earth will in any case be permitted, nor will any filling be permitted over frozen material.

Sheeting Removed.

Section No. 95. As fast as the work of filling permits, sheeting and other timber supporting the sides of the excavation shall be carefully withdrawn, and the spaces left by the removal of such material carefully backfilled, but if directed by the Engineer, the sheeting shall be left in place. (See Section 71.)

How Paid For.

Section No. 96. The cost of backfilling is to be deemed to be included in the prices paid for earth and rock excavation, Schedule Items 1, 2-A, 3 and 3-A.

7.

Piling and Timbering.

Character of Piles.

Section No. 97. If in the judgment of the Engineer the ground is of such character as to require piling, the Contractor shall drive such piles as the Engineer directs. The piles shall be of good, sound pine or spruce, or other acceptable timber, straight and free from shakes; they shall be not less than twelve (12) inches in diameter at the butt end, or less than six (6) inches in diameter at the point, and shall be driven to the satisfaction of the Engineer and by means of a steam hammer driver if so required by him. If necessary the points of the piles shall be protected by proper shoes, and the butts by rings or caps. Piles shall not be spliced unless permitted by the Engineer, and then in such manner as he directs. Piles shall be carefully cut off to the grade given by the Engineer.

Piles Driven in Required Location.

Section No. 98. Piles shall be driven in the position and manner and to the depth ordered; if driven in a wrong position or injured in any way by driving they must be withdrawn and replaced by others. After being driven they shall be cut off to a true plane for proper adjustment with capping timber or masonry.

Payment for Timber Piles.

Section No. 99. The price herein stipulated to be paid, per lineal foot of timber piles, Schedule Item 12, is to cover the cost of furnishing, driving and preparing the piles ready for the capping timbers or masonry, and the portion cut off and removed will not be included in the length measured for payment. No test piles, guide piles, or piles other than those that are a part of the finished foundation and are included within the net width of the finished foundation will be paid for.

Concrete Piles.

Section No. 100. If in the judgment of the Engineer special conditions so require, piles of reinforced concrete of an approved form of construction shall be used.

Payment for Piles Other Than Timber Piles.

Section No. 101. Payment for piles other than timber piles will be as provided in Article XII of the contract.

Grillage.

Section No. 102. Timber grillage foundations shall be built if so directed by the Engineer.

Foundation Timber.

Section No. 103. All foundation timber shall be of pine or spruce, or other timber permitted by the Engineer, sound and free from shakes. It shall be of such dimensions, and laid in such manner, as the special plans to be issued shall require, and held in place by bolts, spikes or good seasoned oak or locust treenails.

Foundation Timber, Measurement and Payment.

Section No. 104. No wastage is to be allowed for, and the estimate of the quantities of foundation timber used will be based on the amount ordered by the Engineer and placed according to his directions. Payment for foundation timber will be as provided in Schedule Item 13.

8.

Cement.

Portland Cement.

Section No. 105. All cement used in the work shall be true Portland cement, by which is meant the finely pulverized product, resulting from the calcination to incipient fusion of a properly proportioned intimate mixture of argillaceous and calcareous earths or rocks to which no addition greater than three (3) per cent, has been made subsequent to calcination.

Brand to be Approved.

Section No. 106. Before any cement is furnished, the brand shall receive the approval of the Engineer. Cement, to be acceptable, shall be of a well-known brand which has been in successful use for large engineering works in America for at least five (5) years, and which has an established reputation for uniform character. Preference will be given to cements which, by their records, show a tendency to maintain high strength of mortar with increased age.

Inspection.

Section No. 107. Cement shall be subject to inspection at the place of manufacture or on the work, and to such tests as may be ordered by the Engineer. The Engineer or his representatives shall have access at all times and places to inspect the methods of manufacture, storage and protection, and shall have liberty to inspect the daily laboratory records of tests and analyses at the cement works.

Tests.

Section No. 108. In general, tests will conform to the methods recommended by the Committee on Uniform Tests of Cement of the American Society of Civil Engineers. Unless otherwise directed, samples will be taken at the place of manufacture by a representative of the Engineer, and sent to the Commission's laboratory, where the tests will be made. If required, tests will be made on the individual samples, without intermixing.

Specific Gravity and Color.

Section No. 109. The cement shall have a specific gravity of not less than 3.10 nor more than 3.25 after being thoroughly dried at a temperature of 212 degrees Fahr. The color shall be uniform, bluish gray, free from yellow or brown particles.

Chemical Analysis.

Section No. 110. Chemical analyses of cement made from time to time shall show a reasonably uniform composition. Cement shall not contain more than 1.75 per cent. of sulphuric anhydride (SO_3) nor more than 4 per cent. of magnesia (MgO).

Fineness.

Section No. 111. The fineness of the cement shall be such that it shall leave by weight a residue of not more than eight (8) per cent. on a No. 100, and not more than twenty-five (25) per cent. on a No. 200 sieve; the wires of the sieves being respectively 0.0045 and 0.0024 inch in diameter.

Time of Setting.

Section No. 112. It shall not develop initial set in less than thirty (30) minutes unless a more quickly-setting cement is specifically required, and shall develop hard set in not less than one (1) hour nor more than ten (10) hours.

Soundness.

Section No. 113. Pats of neat cement, after remaining one (1) day in moist air, shall be kept in air or water of normal temperature for at least twenty-eight (28) days, or shall be exposed to an atmosphere of steam, above boiling water, in a loosely closed vessel for at least five (5) hours; and the separate parts under any of these conditions, shall remain hard without any indications of checking, cracking, distortion, disintegration or blotching.

Tensile Strength.

Section No. 114. Neat cement briquettes shall have at the end of one (1) day in moist air a breaking strength, per square inch of sectional area, of not less than one hundred and fifty (150) pounds; at the end of seven (7) days—one (1) day in air, six (6) days in water—a breaking strength, per square inch of sectional area, of not less than five hundred (500) pounds; at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than three hundred (300) pounds. The strength at twenty-eight (28) days shall show an increase of not less than fifty (50) pounds over the strength at seven (7) days.

Mortar Briquettes.

Mortar briquettes, composed of one (1) part of cement and three (3) parts of standard Ottawa sand, by weight, shall have at the end of seven (7) days—one (1) day in air, six (6) days in water—a breaking strength, per square inch of sectional area, of not less than two hundred (200) pounds; and at the end of twenty-eight (28) days—one (1) day in air, twenty-seven (27) days in water—of not less than three hundred (300) pounds. The strength at twenty-eight (28) days shall show an increase of not less than fifty (50) pounds over the strength at seven (7) days.

Long-time Tests.

Section No. 115. Tests will be made from time to time extending over longer periods than twenty-eight (28) days. If such tests show a tendency to unsoundness or unusual reduction in strength with increased age, the Engineer shall have the right to prohibit the further use of that brand and to require that another brand be substituted.

Storage During Tests.

Section No. 116. All cement shall be held in storage to allow ample time for tests to be made before the cement is required for use in the work.

How Contained.

Section No. 117. Cement shall be packed and delivered in canvas sacks or other strong, well-made packages, plainly marked with the manufacturer's brand, and sealed in an approved manner. The weights of such packages shall be uniform.

Methods of Storing.

Section No. 118. The Contractor shall at all times keep in store on the work, or at some point convenient thereto, an abundant supply of cement, so as to guard against possible shortage. It shall be stored in a weather-tight building, with a tight floor a proper distance above the ground, and with sufficient floor space to admit of storing each lot of cement, of not more than two hundred (200) barrels, or its equivalent, separately, so as to facilitate identification of each individual lot in case of necessity for further tests or rejection. Cement that has become partially set or otherwise damaged shall not be used.

9.

Mortar.

Cement and Sand—Mixing.

Section No. 119. All mortar shall be prepared from accepted cement and clean, sharp sand, approved by the Engineer. These ingredients shall be thoroughly mixed dry in the proportions as specified below; water shall then be added, so as to produce a stiff paste. Water used in mortar, grout or concrete must be clean, fresh water, no salt water being permitted. The mortar shall be freshly mixed for the work on hand, in proper boxes made for that purpose, and no mortar shall be used that has stood beyond such limit of time as may be determined by the Engineer.

How Measured.

Section No. 120. For purposes of mixture, three hundred and seventy-five (375) pounds of Portland cement shall be estimated at three and one-half ($3\frac{1}{2}$) cubic feet of volume. The proportional parts of sand and stone or gravel shall be by volume as cast into the measuring box. The proportions for brick and stone masonry shall be one (1) part cement to two (2) parts sand; for pointing, one (1) part cement and

one (1) part sand; for concrete masonry, as specified under the head of concrete; and for other classes of work, as directed by the Engineer.

Grout.

Section No. 121. If required by the Engineer, a grout, consisting of one (1) part fine, clean and sharp sand and one (1) part of Portland cement, shall be pumped in under pressure, so as to completely fill all the voids in or behind the masonry.

Payment for Grout.

Section No. 122. Where grout is ordered and used, it shall be paid for at the price herein provided, Schedule Item 11.

10.

Masonry.

Laid in Portland Cement.

Section No. 123. All masonry, except as otherwise specified, shall be laid in Portland cement mortar, and shall be built of the forms and dimensions shown on the plans, or as directed by the Engineer from time to time; and the system of joining or bonding ordered by the Engineer shall be strictly followed.

Water Not to Interfere With.

Section No. 124. Care must be taken that no water shall interfere with the proper laying of masonry in any of its parts.

Freezing Weather.

Section No. 125. During freezing weather no masonry shall be built unless properly protected against frost, and masonry shall not be built in exposed places where in the opinion of the Engineer it is impracticable to give such protection. During freezing weather or when there is frost in the materials to be used in the masonry, the materials shall be heated. The Contractor shall provide such appliances, subject to the approval of the Engineer, as are necessary for the heating of the sand, stone and other materials.

Protected in Freezing Weather.

Section No. 126. During freezing weather all masonry shall be protected by a suitable covering of salt hay, canvas, tarpaulin or by such material or in such ways as may be necessary to insure it against freezing.

Hot Weather.

Section No. 127. During hot weather all masonry, especially concrete, shall be kept wet by sprinkling and properly covered until it has become thoroughly set and hardened.

Pointing.

Section No. 128. Unless otherwise permitted, every joint that is to be pointed shall be raked out, within two (2) days after being laid, to a depth of at least two (2) inches.

Mortar, for Pointing.

Section No. 129. Pointing of the face joints of masonry shall be thoroughly made with cement mortar mixed in the proportion of one (1) part of cement to one (1) part of sand, except where otherwise specially provided.

Season, for Pointing.

Section No. 130. No pointing shall be done in freezing weather, and masonry laid between December 1st and April 1st shall not be pointed until permitted by the Engineer.

Defective Masonry.

Section No. 131. Any masonry which is found to be defective from any cause whatsoever, before the final completion and acceptance of the work, must be removed and properly rebuilt, or if damaged during such time must be properly repaired.

Stone Cleaned.

Section No. 132. All stone before being laid shall be thoroughly cleaned, and washed if so directed by the Engineer.

11.

Concrete.

How Composed.

Section No. 133. The concrete shall be composed of gravel or broken stone, or a mixture of both, free from all dust and dirt, and mixed together with the proportion of mortar specified below. The water used in mixing concrete must be clean fresh water, no salt water being permitted.

Sand.

Section No. 134. Sand for concrete shall be of the kind herein specified for mortar.

Stone.

Section No. 135. Stone for concrete shall be sound, clean gravel, or sound, hard, broken limestone, or trap rock, or a mixture of such gravel and broken stone may be used.

Sizes of Stone.

Section No. 136. Broken stone or gravel for concrete shall be graded from fine to coarse, and that which is all of one size, or practically so, shall not be used. It shall be screened or washed so as to remove all dust, and it shall contain no pieces that will pass through a hole three-eighths ($\frac{3}{8}$) inch in diameter, and no pieces that will not pass through a hole one and one-half ($1\frac{1}{2}$) inches in diameter. Broken stone or gravel for concrete, graded as above, but between three-eighths ($\frac{3}{8}$) and three-fourths ($\frac{3}{4}$) inch in diameter, may be required and used in special parts of the work.

Rubble Concrete.

Section No. 137. In concrete where the thickness is thirty (30) inches or more, if permitted by the Engineer, the Contractor may imbed in the same, pieces of clean, sound stone whose greatest diameter does not exceed twelve (12) inches and whose least diameter or thickness is not less than three-quarters ($\frac{3}{4}$) of the greatest diameter. These stones shall be set by hand in the concrete as the layers are being rammed, and so placed that each stone is completely and perfectly imbedded. No two (2) stones shall be within six (6) inches of each other and no stones within four (4) inches of an exposed face, nor shall any such stone be placed nearer than six (6) inches to any metal built in the concrete for reinforcing the same.

Rubble Concrete.

Section No. 138. The proportions of cement, sand and stone (or gravel) used in making concrete shall be as follows:

Section No. 139. Concrete in floor, sidewalls and roof one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Section No. 140. Protective concrete outside of waterproofing lines on sides and roof, one (1) part of cement, two (2) parts of sand and four (4) parts of stone.

Mixing by Machine.

Section No. 141. Whenever practicable, concrete shall be machine mixed. A rotary machine of a pattern approved by the Engineer, and mixing only one batch at a time, shall be used. Concrete shall not be mixed on the street surface on the line of the work, unless specifically permitted.

Mixing by Hand.

Section No. 142. When concrete is mixed by hand the stone or gravel shall be spread on a platform in a bed about six (6) inches thick, and shall be thoroughly wet. Sand shall be spread on a platform and the requisite portion of cement spread on the sand. After thoroughly mixing the latter, the dry mixture thus formed shall be spread evenly over the bed of stone wet as above, and the whole turned over until thoroughly mixed, but not less than two (2) turnings on the mixing board shall be allowed in any case, water being added as necessary. Care shall be taken to keep the bed of concrete wet and avoid piling.

How Laid.

Section No. 143. Concrete shall be placed immediately after mixing in layers of such thickness as may be directed by the Engineer, and shall be thoroughly compacted throughout the mass by ramming or spading, special tamping bars or tools being used as approved by the Engineer. The amount of water used in making the concrete shall be as approved by the Engineer. If a small amount of water has been used in mixing, ramming shall be continued until the water flushes to the surface; as a rule, however, concrete shall be placed wet.

Made Smooth to Receive Waterproofing.

Section No. 144. Concrete to which waterproofing is to be applied shall be made smooth at the time of laying and shall be carefully protected from injury by barricades or otherwise, if necessary, until thoroughly set.

Time for Hardening.

Section No. 145. Concrete shall be allowed to set for twelve (12) hours, or more, if so directed, before any work shall be laid upon it; and no walking over or working upon it shall be allowed while it is setting. Concrete shall not be flooded with water before being thoroughly set.

Rock Surface be Cleaned.

Section No. 146. Before laying concrete on rock surfaces the latter shall be swept clean of all debris and dirt, and when laid on earth the earth shall be rammed as directed before placing the concrete.

Surface Rough for Bonding.

Section No. 147. Wherever a section of concrete is necessarily left unfinished, leaving a surface which will be hard set before additional concrete can be laid, care shall be taken to flush the cement to such surface, and such dovetails or grooves shall be formed as may be necessary to insure a good bond with the new work; and if deemed necessary by the Engineer, the joints shall be reinforced with steel bars or dowels, to be furnished by the Contractor.

Joints Cleaned.

Section No. 148. In all cases of joints of old with new work the old surfaces shall be thoroughly cleaned and wet, and a coating of mortar or cement shall be applied, if required, before placing the concrete.

Forms.

Section No. 149. Suitable forms shall be provided by the Contractor to support the concrete while being placed in the walls or roofs. These forms shall be immediately replaced by new ones as soon as they commence to lose their proper shape. Before being used they shall be carefully cleaned of cement and dirt in order to provide a perfectly smooth face to the exposed surface of the concrete. The forms shall be made of wood, kept carefully planed; or made of metal sufficiently thick to retain their shape without the use of wood.

Certain Forms not Permissible.

Section No. 150. No forms made of wood, and covered with iron will be permitted.

Forms, How Made.

Section No. 151. The forms if made of wood, shall be made of boards with tight joints, tongued and grooved, if required by the Engineer.

Precautions in Placing.

Section No. 152. Every precaution shall be taken in placing or assembling the forms to do so in such manner that when removed, after the concrete has been placed, the faces of the concrete that are to remain exposed shall present a smooth and even surface; except that at stations on the track ceilings and walls within the limits of the station finish work and the ceilings over the platforms, the concrete shall be left with a rough surface to insure a proper bond between the concrete and the station finish plaster to be applied under another contract. To obtain this rough concrete surface, the Contractor must provide such special forms as approved by the Engineer.

Forms, How Set—Forms Removed—Surface Irregularities Corrected—Defective Work Replaced.

Section No. 153. The forms shall be set true to line, firmly secured, and be so tight as not to allow water in the mortar to escape; they shall be thoroughly wet before placing the concrete and shall be removed as soon after the concrete has been placed as in the judgment of the Engineer may be done with safety to the work. Immediately on the removal thereof the faces that will remain exposed shall be carefully examined and any irregularities of the surface corrected; projections shall be removed and voids filled with mortar. If, however, the voids are such as to indicate an excessive loss of mortar, portions of the concrete shall be cut out to the fullness of such defects and the space refilled with a rich concrete or mortar in such proportions and in such manner as the Engineer may direct.

Reinforcement Steel.

Section No. 154. Where reinforcement steel or wire mesh is used, efficient means shall be provided to maintain it in the exact position it is to occupy in the completed work, and to prevent it from becoming dislodged, or moved in any manner, when concrete is placed.

Surfaces Not to be Painted.

Section No. 155. The exposed faces of the concrete shall be left with the natural cement finish; therefore, immediately following the removal of the forms, followed by the removal of the projections and the filling of voids as provided above, these entire surfaces shall be rubbed down in such a manner, approved by the Engineer, as will leave a smooth and even surface, the object in view being to obtain a generally smooth finished surface with uniformity in color.

Within Station Limits.

The preceding paragraph of this Section does not apply within station limits.

Impervious to Water.

Section No. 156. It is intended to obtain concrete impervious to water; the concrete shall be mixed and deposited with this end in view, and on the roof of the Railroad, if waterproofing is not used, the top surface of the concrete shall be carefully troweled as may be directed in order to add to its imperviousness.

Drip Pans.

The surfaces of drip-pans under ventilating openings and other surfaces which require special provision for drainage shall be troweled.

Concrete, How Measured and Paid For.

Section No. 157. Concrete masonry shall be measured in place in the work to the prescribed net lines ordered by the Engineer and shall be paid for at the prices stipulated in Schedule Items 6 and 7; which prices are to include the cost of all scaffolding, centers, forms, etc., and removing the same, all troweling where required, and all other work, labor and material incidental thereto.

Backing or Filling Concrete Paid For.

Section No. 158. Concrete backing or filling outside of the ordered net lines of excavation will be paid for as provided in Section No. 81.

12.

Brick Masonry.

Quality.

Section No. 159. Bricks for masonry shall be of the best quality common bricks, burned hard entirely through, regular and uniform in shape and size and of compact texture.

Hollow Terra Cotta Blocks.

Section No. 160. Hollow terra cotta blocks or bricks may be required on the outside of walls of the structure or at such other places as the Engineer may direct. They shall be of the best porous terra cotta as approved by the Engineer, and shall be of such thickness and shall be laid in such manner as hereinafter specified or as the Engineer may direct.

In Station.

Similar terra cotta blocks or bricks may be required in station work.

How Laid.

Section No. 161. All brick masonry shall be laid in mortar of the quality above described, except that in exposed locations coloring matter may be added, if required by the Engineer. The bricks shall be laid to line with joints in the face work not exceeding one-quarter ($\frac{1}{4}$) of an inch in the beds, and three-eighths ($\frac{3}{8}$) of an inch on ends; the bricks to be thoroughly wet before laying and to be completely embedded in mortar under the bottom and on the sides and ends at one operation, care being taken to have every joint full of mortar.

All exterior surfaces shall be smooth and regular.

Cleaned.

Section No. 162. The inside faces of all arches and other exposed parts shall have all the mortar scraped off and washed clean immediately after the centers have been struck, and shall be pointed and left in neat condition.

No "Bats" or Culls.

Section No. 163. All bricks of whatever nature shall be carefully culled and if necessary gauged before laying, at the expense of the Contractor. No "bats" shall be used except in large masses of brickwork, where a moderate proportion, to be determined by the Engineer, may be used, but nothing smaller than half bricks.

Racked or Toothing.

Section No. 164. All unfinished work shall be racked back or toothed, as directed by the Engineer, and before new work is joined to it the faces of the brick in the old work must be scraped entirely clean, scrubbed with a stiff brush and be well moistened.

Special Bricks.

Section No. 165. Where necessary to make a neat joint in connection with steel framework, or at corners, curves, or other similar places, special bricks of proper shape shall be furnished and used. All centers and forms shall be made to fit the curves of the work; they shall be put up and removed in a manner satisfactory to the Engineer.

Measurements and Payments.

Section No. 166. Brick masonry shall be measured to the lines indicated and shown on the plans or as ordered by the Engineer and shall be paid for as herein stipulated in Schedule Item 9, for common brick masonry, and Item 10 for hollow terra cotta brick or tile masonry of any thickness ordered; these prices are to include the cost of all scaffolding, forms, centers, etc., and the removal of the same, of all plastering and pointing, and of all other work incidental thereto.

13

Stone Masonry.

Rubble Stone Masonry, Where Used.

Section No. 167. Rubble stone masonry will be used if required by the Engineer for supporting the street railroads over the roof of the Railroad where permanent supports are required, and at such other places as the Engineer may require.

How Laid.

Section No. 168. Rubble stone masonry shall be made of sound, clean stone of suitable size, quality and shape for the work in hand and shall be laid in mortar mixed in the proportion of one (1) part of cement to three (3) parts of sand. All beds and joints shall be well filled with mortar and the work must be thoroughly bonded.

Dry Rubble Masonry.

Section No. 169. In connection with the construction of sewers, or wherever else directed by the Engineer, dry rubble masonry shall be used. It shall consist of sound, clean stone not less than three (3) inches thick and one (1) cubic foot contents, laid on natural beds and bonded to give the greatest degree of strength, with such spalls as are required for leveling.

Measurements and Payments.

Section No. 170. Rubble stone masonry shall be measured in place in the work and to the lines ordered by the Engineer, and it shall be paid for as herein stipulated under Schedule Item 8 if with mortar, and under Item 8-A if dry.

Other Masonry.

Section No. 171. In case, during the progress of the work, stone masonry of a different class than that specified above shall become necessary and shall be required by the Engineer, the same shall be constructed according to specifications applicable to the best work of such class, and it shall be paid for as provided in Article XII. of the contract.

14

Waterproofing.

General Limits of Waterproofing.

Section No. 172. In general, waterproofing of the structure will be limited to the roof between stations and to those surfaces near ground water or mean high water if ground water level is found for any reason to be below mean high water. At other places free drainage shall be provided by pipe drains, hollow tile or broken stone.

At Stations.

At stations the roof and sidewalls also shall be waterproofed.

Protecting Masonry.

Section No. 173. The protecting masonry shall be concrete, common bricks or hollow terra cotta blocks, as directed, laid and paid for as herein elsewhere provided, and shall not be less than four inches in thickness.

Laid Against Sheeting.

Section No. 174. In places where permanent sheeting is placed at the waterproofing line, the waterproofing, if permitted by the Engineer, may be applied against the sheeting.

Surfaces to be Made Smooth.

Section No. 175. All surfaces to which waterproofing is to be applied shall be made as smooth as possible; on these surfaces there shall be spread either hot melted pitch or asphaltum in a thick layer of uniform thickness; on this layer of pitch or asphaltum shall be laid a treated woven fabric of such material as may be approved by the Engineer; this process shall be repeated until such number of layers as may be required by the Engineer have been placed and a final coat of pitch or asphaltum shall then be applied.

Definition of Term "Ply."

Section No. 176. The term "ply" as used in these specifications shall mean a layer of treated woven fabric (except the dry ply), both sides of which shall be coated with pitch or asphaltum at the time of laying.

Number of Ply.

Section No. 177. The number of plies of waterproofing over the roof between stations shall in no case be less than three (3), except as hereinafter provided where brick laid in asphalt mastic is used.

At Stations.

On the sidewalls at stations the same conditions as in the preceding paragraph shall apply.

Brick in Asphalt Mastic.

Section No. 178. On the sides and bottom of the structure below a line of two (2) feet above ground water, or, if ground water is below mean high water level, then two (2) feet above mean high water, one (1) ply of waterproofing, as described above, shall be used with one or more layers of brick laid in asphalt mastic; the number of layers of bricks to be determined by the Engineer.

In any case where brick laid in asphalt mastic is not used, the number of plies shall be as local conditions require and as directed by the Engineer.

At Stations.

The requirements in the preceding paragraphs of this section likewise shall apply to the roof of the structure within station limits and over the tracks passing through the stations within said limits.

Quality of Brick.

Section No. 179. The quality of brick shall be the same as provided in the specifications under the head of Brick Masonry. The brick shall be properly dried and shall be heated before laying.

Measurements and Payments.

Section No. 180. Brick in asphalt mastic will be measured in place to the lines ordered by the Engineer, and will be paid for at the price herein stipulated, Schedule Item 16.

Ply Substitute for Brick in Asphalt.

Section No. 181. Six (6) plies of waterproofing may be substituted for brick in asphalt mastic, if approved by the Engineer, and will be paid for as provided for fabric waterproofing.

Asphalt Mastic.

Section No. 182. Asphalt mastic shall contain one-third ($\frac{1}{3}$) waterproofing asphalt, the other ingredients to be sand and limestone dust or sand and Portland cement, in proportions governed by local requirements and weather conditions. In melting and mixing the mastic on the work its temperature shall not exceed 350° Fahr. All packages containing asphalt shipped to the work must be distinctly labeled with the manufacturer's name and the brand or number of the mixture.

Leaks Stopped.

Section No. 183. Any masonry that is found to leak at any time prior to the completion of the work and final acceptance thereof by the Commission shall be cut out and the leak stopped, at the sole expense of the Contractor.

Pitch.

Section No. 184. Pitch shall consist of either coal-tar or asphalt as the Engineer elect; it must be delivered on the work in packages that are plainly marked with the manufacturer's brand, and indicating the grade and quality of the material.

Quality of Coal-Tar Pitch.

Section No. 185. The coal-tar pitch shall be straight-run pitch containing not less than twenty-five (25%) per centum and not more than thirty-two (32%) per centum of free carbon, which will soften at approximately 70° F., and melt at 120° F., being a grade in which distillate oils distilled therefrom shall have a specific gravity of 1.05.

Quality of Waterproofing Asphalt.

Section No. 186. The asphalt used shall consist of fluxed natural asphalt, or asphalt prepared by the careful distillation of asphaltic petroleum, subject to the approval of the Engineer, but however prepared, it shall comply with the following requirements:

The asphalt shall contain in its refined state not less than 95 per cent. of bitumen soluble in cold carbon disulphide, and at least 98½ per cent. of the bitumen soluble in cold carbon disulphide shall be soluble in cold carbon tetrachloride. The remaining ingredients shall be such as not to exert an injurious effect on the work.

The asphalt shall not flash below 350 degrees Fahr. when tested in the New York State Closed Oil Tester. When 20 grams of the material are heated for five hours at a temperature of 325 degrees Fahr. in a tin box $2\frac{1}{2}$ inches in diameter it shall not lose over 5% by weight, nor shall the penetration at 77 degrees Fahr. after such heating be less than $\frac{1}{2}$ of the original penetration.

The melting point of the material shall be between 100 degrees and 175 degrees Fahr. as determined by the Kraemer and Sarnow method.

The consistency shall be determined by the penetration which must be between 75 and 100 at 77 degrees Fahr.

A briquette of the solid bitumen of cross section of one square centimeter shall have a ductility of not less than 20 centimeters at 77 degrees Fahr., the material being elongated at the rate of five (5) centimeters per minute. (Dow moulds.)

All tests herein specified must be conducted according to methods approved by the Engineer.

Penetrations indicated herein refer to the depth of penetration in hundredth centimeters of a No. 2 cambric needle weighted to 100 grams at 77 degrees Fahr. acting for 5 seconds.

Woven Fabric for Waterproofing.

Section No. 187. The fabric to be used shall be a woven fabric which shall have been treated with pitch or asphaltum before being brought on the work. The fabric and the material used in its treatment shall be approved by the Engineer.

Concrete to Be Dry.

Section No. 188. All concrete shall be dry before waterproofing is attached. If, in the judgment of the Engineer, it is impracticable to have the concrete dry, then there shall be first laid a layer of treated felt of approved quality, on the upper surface of which is to be spread the first layer of pitch or asphaltum; the said layer of felt shall then be paid for as a dry-ply, Item 15 (i).

Each layer of pitch or asphaltum must completely and entirely cover the surface on which it is spread without cracks or blow holes.

Fabric for Waterproofing to Be Carefully Laid.

Section No. 189. The fabric must be rolled out into the pitch or asphaltum while the latter is still hot, and pressed against it so as to insure its being completely stuck over its entire surface, great care being taken that all joints are well broken by overlapping, and that, unless otherwise permitted, the ends of the rolls of the bottom layers are carried up on the inside of the layers on the sides, and those of the roof down on the outside of the layers on the sides so as to secure a full lap of at least one (1) foot. Especial care must be taken with this detail.

Precautions After Laying.

Section No. 190. When the finishing layer of concrete is laid over or next to the waterproofing material, care must be taken not to break, tear or injure in any way the outer surface of the pitch or asphaltum.

Skilled Labor to Be Employed.

Section No. 191. None but competent men, especially skilled in work of this kind, shall be employed to lay the waterproofing.

Measurements and Payments.

Section No. 192. Measurements will be made on the basis of actual area covered by the number of plies ordered, no account being taken of laps, and the waterproofing will be paid for as herein stipulated, Schedule Item 15.

15.

Steel and Iron.

Open Hearth Process.

Section No. 193. Steel shall be made by the open hearth process.

Chemical and Physical Properties.

Section No. 194. The chemical and physical properties of finished material shall conform to the following limits:

Properties.	Structural Steel.	Rivet Steel.	Steel Castings.
Phos. (Max.)	.04%	.04%	.05%
Sulph.	.05%	.04%	.05%
Mn.	.60%	.60%	.80%
Si.	.10%	.10%	.35%
Ult. Str.	60000 ± 4000	50000 ± 4000	65000 (Min.)
Yield Point (Min.)	55% Ult.	55% Ult.	35000
Elongation, Min. % in 8 inches	1500000	1500000	
	Ult. Ten. Str.	Ult. Ten. Str.	
Elongation, Min. % in 2 inches	.....	.....	20%
			Silky, or
Fracture	Silky.	Silky.	Fine granular
Cold Bends Without Fracture	180° flat.	180° flat.	120° (d=3t.)

Yield Point.

Section No. 195. The yield point shall be that strain, beyond which the elongation ceases to be proportional to the weight imposed, and may be indicated by drop of beam. The speed of testing shall be governed by the Inspector.

Soundness and Finish.

Section No. 196. Sufficient discard shall be made to insure sound material free from piping or excessive segregation. The material shall be finished straight and smooth, and shall be free from all seams, flaws, cracks, defective edges or other defects. Any imperfection which may develop during the progress of the work will be sufficient cause for rejection.

Steel Castings.

Section No. 197. Steel castings shall be true to pattern and free from injurious imperfections.

Standard Test Pieces.

Section No. 198. Sample pieces for tensile and bending tests of plates, shapes and bars shall be cut from such portions of the finished product of each melt as the Inspector may designate, and shall be stamped by him; they shall have both faces rolled and both edges milled to the usual form of a standard test specimen—one and one-half (1 $\frac{1}{2}$) inches wide on a gauged length of nine (9) inches, or with both edges parallel. The area of the minimum section shall be not less than one-half ($\frac{1}{2}$) square inch.

Tests for Angles.

Section No. 199. Angles three-quarters ($\frac{3}{4}$) of an inch and less in thickness shall open flat, and angles one-half ($\frac{1}{2}$) of an inch and less in thickness shall bend shut, cold, under blows of a hammer, without sign of fracture. This test shall be made only when required by the Inspector.

Rivet Rods.

Section No. 200. Rivet rods shall be tested as rolled.

Test Pieces for Steel Castings.

Section No. 201. For steel castings the test piece shall be turned to a uniform minimum section of one-half ($\frac{1}{2}$) inch diameter, for a length of at least two and one-half (2 $\frac{1}{2}$) inches. Specimens for bending shall be one (1) inch by one-half ($\frac{1}{2}$) inch in section.

Tests for Rivet Steel.

Section No. 202. Rivet steel, when nicked and bent around a bar of the same diameter as the rivet rod, shall give a gradual break and a fine, silky, uniform fracture.

Section No. 203. Treatment for Test Specimens.

Section No. 204. For steel castings the number of tests will depend on the character and importance of the castings. Specimens shall be cut cold from coupons molded and cast on some portion of one or more castings from each melt. The coupons shall be annealed with the castings before being cut off.

Number of Tests.

Section No. 205. At least one tensile and one bending test shall be made from each melt of steel as rolled. In case steel differing three-eighths ($\frac{3}{8}$) inch or more in thickness is rolled from one melt, a test shall be made from the thickest and from the thinnest material rolled. Rolled steel shall be tested in the condition in which it comes from the rolls.

Rejection at Shop.

Material which, subsequent to tests at the mills and its acceptance there, develops weak spots, brittleness, cracks or other imperfections or is found to have injurious defects, will be rejected at the shop and shall be replaced by the manufacturer at his own cost.

Retests.

If the above tests do not fulfill the requirements of these specifications, duplicate

tests may be made at the discretion of the Inspector, he selecting and stamping the duplicate test pieces. If these retests meet all the requirements, the melt shall be accepted.

Variation in Weight.

Section No. 206. A variation in weight or cross section of any piece of steel of more than two and one-half (2 $\frac{1}{2}$) per centum from that specified, shall be sufficient cause for rejection, except in case of sheared plates exceeding one hundred (100) inches in width, where the variation may be five (5) per centum.

Material Marked.

Section No. 207. Every finished piece of steel shall have the melt number and the name of the manufacturer stamped or rolled upon it. Bars for reinforcing concrete, rivet and lattice steel, and other small parts, may be bundled, with above marks on an attached metal tag.

Test Pieces and Facilities for Testing.

Section No. 208. The Contractor shall furnish, without extra charge, such standard test pieces as may be necessary to determine the uniform quality of the material and also the use of a reliable testing machine, with the necessary labor for testing.

Chemical Analysis.

Section No. 209. Chemical determinations of the percentages of carbon, phosphorus, sulphur and manganese shall be made by the manufacturer from a test ingot, so taken, during the casting of each melt of steel as to fairly represent the melt. Two copies of such analyses shall be furnished to the Engineer or his Inspector.

Mill Orders.

Section No. 210. The Engineer shall be furnished copies in triplicate of all mill orders, and no material shall be rolled or work done before the Engineer has been notified so that he may arrange for the inspection.

The Engineer shall be furnished complete copies of shipping invoices, in triplicate, with each shipment. Each invoice shall show the scale weight of each individual piece.

Wrought Iron.

Double Rolled.

Section No. 211. All wrought iron shall be double rolled, tough, fibrous and uniform in character. It shall be thoroughly welded in rolling and be free from surface defects.

Method of Testing.

Section No. 212. The methods specified for testing rolled steel shall apply generally to wrought iron. Standard test specimens shall show an ultimate strength of at least fifty thousand (50,000) pounds per square inch, and an elongation of at least eighteen (18) per centum in eight (8) inches, with fracture wholly fibrous. Specimens shall bend cold with the fibre, through one hundred and thirty-five (135) degrees, without sign of fracture, with inner radius not to exceed the thickness of the piece tested. When nicked and bent the fracture shall show at least ninety (90) per centum fibrous.

Cast Iron.

Chemical Requirements.

Section No. 213. Cast iron shall be tough gray iron made by the Cupola process, and shall contain not more than six-tenths (0.6) per cent. of phosphorus and not more than twelve one-hundredths (0.12) per cent. of sulphur. No mill cinder iron, white or burnt iron or scrap of any kind will be permitted in the composition.

Test Bar.

Section No. 214. The quality of the iron entering into castings shall be determined by means of the "Arbitration Bar." This is a bar one and one-quarter (1 $\frac{1}{4}$) inches in diameter and fifteen (15) inches long, cast under the same circumstances as those which attended the casting of the full-sized piece. This bar shall sustain at the centre, when resting upon two (2) dull knife edges twelve (12) inches apart, a load of three thousand (3,000) pounds with a deflection of at least one-tenth (1/10) of an inch before rupture.

Number of Test Bars.

Two (2) sets of two (2) bars shall be cast from each heat; one set from the first and the other set from the last iron entering into the castings. Each set of two bars is to be made in a single mold.

True to Pattern.

Section No. 215. Castings must be sound, true to pattern, free from cracks, flaws, excessive shrinkage, and have smooth clean surfaces. They must be neatly chiseled and wirebrushed before leaving the foundry. Castings which do not accurately conform to dimensions on the plans will be rejected. Each casting shall have its distinguishing letter or number cast on at the place indicated on the plans.

Workmanship.

Quality.

Section No. 216. The workmanship shall be equal to the best practice in modern bridge works.

Shearing and chipping shall be neatly and accurately done and all portions of the work exposed to view neatly finished. All nuts exposed to view on the final structure shall be hexagonal. Lattice bars shall have neatly rounded ends, concentric with rivet holes.

Rods and Bars Deformed Sections.

Section No. 217. Rods and bars to be used for reinforcing concrete shall be deformed as approved by the Engineer; plain bars will not be used.

Bent Rods.

Section No. 218. Bent rods shall be bent uniformly to template in a machine or press approved by the Engineer. They may be bent either at the shop or on the work. In special cases bending hot and annealing may be required.

Material Straightened in Shop.

Section No. 219. All materials shall be straightened in the shop before being worked in any way and again straightened after punching and before assembling, if required by the Engineer or Inspector.

Size of Rivets.

Section No. 220. The size of rivets called for on plans shall be understood to mean the actual size of the cold rivet before heating.

Rivet Holes.

Section No. 221. All holes shall be accurately spaced and punched. The diameter of the punch shall be not more than one-sixteenth (1/16) inch greater than the diameter of the rivet. The diameter of the die shall be as small as may be required to punch a clean hole.

Punching.

Section No. 222. Punching shall be accurately done. Drifting to enlarge unfair holes will not be allowed. If the holes must be enlarged to admit the rivet they shall be reamed. Poor matching of holes will be cause for rejection.

Sub-punching and Reaming.

Section No. 223. Where sub-punching and reaming are required, the punch used shall have a diameter not less than three-sixteenths (3/16) inch smaller than the rivet. Holes shall then be reamed to a diameter not more than one-sixteenth (1/16) inch larger than the nominal diameter of the rivet. All reaming shall be done with twist drills after the material is assembled and firmly bolted together. The use of lubricants in reaming is not allowed.

Drilling.

Section No. 224. All material over seven-eighths ($\frac{7}{8}$) of an inch thick shall be drilled from the solid. Material over five-eighths ($\frac{5}{8}$) of an inch and not exceeding seven-eighths ($\frac{7}{8}$) of an inch in thickness shall be sub-punched and reamed.

Sheared Edges.

Section No. 225. Sheared edges of plates, exceeding five-eighths ($\frac{5}{8}$) of an inch in thickness in main members, shall be planed at least one-eighth ($\frac{1}{8}$) of an inch.

Burs Removed.

Section No. 226. All burs on rivet holes shall be removed.

Assembling.

Section No. 227. Riveted members shall have all parts well pinned up and firmly drawn together with bolts, before riveting is commenced. Contact surfaces shall be painted.

defective rivets, great care shall be taken not to injure the adjacent material. If necessary they shall be drilled out.

Distances from center of rivet to edge of sheared plate shall not be less than $1\frac{1}{4}$ " for $\frac{3}{4}$ " rivets and $1\frac{3}{8}$ " for $\frac{7}{8}$ " rivets; distances from center of rivets to a rolled edge shall be not less than $1\frac{1}{4}$ " for $\frac{3}{4}$ " rivets and $1\frac{1}{4}$ " for $\frac{7}{8}$ " rivets. The minimum pitch for $\frac{3}{4}$ " rivets shall be $2\frac{1}{2}$ " and for $\frac{7}{8}$ " rivets $2\frac{1}{8}$ ". When material is sub-punched and reamed the pitch for $\frac{3}{4}$ " rivets may be made $2\frac{1}{4}$ " and for $\frac{7}{8}$ " rivets $2\frac{1}{8}$ ".

Use of Bolts.

Section No. 229. Generally the use of bolts instead of rivets will not be permitted, but when used in special cases, the holes shall be reamed parallel, and the bolts turned to a driving fit, with the threads entirely outside of the holes. Washers not less than one-quarter ($\frac{1}{4}$) inch thick shall be used under the nuts. Bolts must be thickly coated with red lead paint before insertion, so as to seal the hole against moisture.

Templates.

Section No. 230. All holes for field rivets, excepting those in connections of lateral and sway bracing, shall be sub-punched and accurately drilled to an iron template, fitted with bushings, or reamed and match marked while the connecting parts are temporarily assembled in the shop. In case of splices of upper chords or other compression members, the abutting ends shall be brought to a forcible bearing.

Finished Members.

Section No. 231. Finished members shall be true and free from twists, bends or open joints. Ends of floor beams and stringers shall be faced square and true.

Rods Upset.

Section No. 232. Rods and bars which are to receive a thread shall be properly upset. Where threads are cut on steel, they shall be properly filleted.

Annealing.

Section No. 233. Steel, except in minor details, which has been partially heated, shall be properly annealed. All steel castings shall be annealed. Welds in steel will not be allowed.

Abutting Surfaces Faced.

Section No. 234. All abutting surfaces shall be accurately planed or faced, so as to insure even bearings, except where otherwise noted on the plans.

Stiffeners; Splice Plates and Fillers.

Section No. 235. Stiffeners of plate girders shall be faced on the ends and brought to a true contact bearing with the flange angles. Web splice plates and fillers under stiffeners shall be cut to fit within one-eighth ($\frac{1}{8}$) of an inch of flange angles.

Web Plate Projections.

Section No. 236. Web plates must not project beyond the flange angles or be more than one-quarter ($\frac{1}{4}$) inch back of face of angles.

Bed Plates Planed.

Section No. 237. Expansion bed plates shall be planed true and smooth. The finishing cut of the planing tool shall be fine and correspond with the direction of expansion.

Details Boxed.

Section No. 238. Nuts, bolts, rivets and other similar material shall be boxed.

Weight Marked.

Section No. 239. The scale weight shall be plainly marked upon every piece and box.

Inspection.

Section No. 240. Free access and information shall be given by the Contractor for a thorough inspection of material and workmanship.

Contractor Responsible.

Section No. 241. The Inspector shall make detailed reports of his inspection to the Engineer and may notify the Contractor of any defects in the material or workmanship, but all acceptances made by him shall be considered temporary, and his inspection shall in no way relieve the Contractor of full responsibility for the character and accuracy of the work until its completion and final acceptance by the Engineer.

Errors in Plans.

Section No. 242. The Contractor shall be responsible for all errors which can be discovered by checking or examining the plans.

Inspector's Office.

Section No. 243. The Contractor shall furnish for the use of the Inspector a suitably equipped office at the mills and at the shops.

Loading and Shipping.

Section No. 244. All parts shall be carefully loaded and protected from injuries during transportation by such means as will be satisfactory to the Inspector. After delivery of materials at the work the Contractor will be required to store the same on skids at least twelve (12) inches above the ground and to keep the same in good condition. Any piece showing injurious effects of rough handling at any stage until the final acceptance of the work may be rejected.

Payments for Steel.

Section No. 245. The prices to be paid for steel are as herein provided in Schedule Items 19, 20 and 21. Item 20 includes all single beams or shapes, whether milled or otherwise, with connections or other end details. These prices include the cost of material delivered and erected in the work. These prices are to include also the cost of all necessary cleaning and painting (where painting is required) and of all other incidental work. The quantity of metal to be paid for shall be the number of pounds actually placed in accordance with the drawings or orders.

Miscellaneous Castings, Payments For.

Section No. 246. For miscellaneous castings, but not including castings for sewer work or pipes, payment will be made as provided in Schedule Item 25, which price includes the cost of material delivered and erected in the work; also the cost of all necessary cleaning and painting (where painting is required) and of all other incidental work, labor and material.

Special Wire Forms.

Wire Forms.

Section No. 247. Special wire forms, of a type and weight to be approved by the Engineer, are to be furnished and placed around the flanges of beams and girders, and at other places as may be required, which are to be completely encased in concrete, in order to hold the concrete in place.

Wire Forms, Payment For.

Section No. 248. Special wire forms, wherever used, will be paid for as stipulated in Schedule Item 26, which price is to include the material in place and all work necessary and incidental thereto.

16.

Painting.

Number of Coats and Quality.

Section No. 249. All metal work, excepting as otherwise herein provided, shall be painted with three (3) coats of paint, including the shop coat, of kind and quality approved by the Engineer.

Shop Coat.

Section No. 250. All iron shall be scraped free from scale, and receive one coat of red lead paint as herein specified before leaving the shop. All surfaces which come in contact or are enclosed shall be painted before being assembled. All turned or faced surfaces shall receive a coat of white lead and tallow before leaving the shop. If the Engineer so directs on members or parts of members buried in concrete the shop coat will be omitted.

Quality of Red Lead.

Section No. 251. The red lead shall be strictly pure, and shall contain at least eighty (80) per centum of "true lead" (Pb_2O_3). The color shall be a clean pure tint. The red lead shall be of the fineness that when washed with water through a No. 19 silk bolting cloth, not more than one (1) per cent. shall be left on the screen.

Quality of Linseed Oil.

Section No. 252. The linseed oil must be absolutely pure, fully aged and ripened, well settled oil. It shall be perfectly clear on receipt, and after heating to 212 degrees Fahr. on a current of hydrogen shall not show a deposit of foots nor a loss of over 0.4 per centum for raw oil, nor over 0.2 per centum for boiled oil. The specific gravity at 60 degrees Fahr. for raw oil shall be between 0.932 and 0.937, and for boiled oil between 0.936 and 0.940.

Original Packages.

Section No. 253. All material shall be delivered, inspected and sampled in original packages.

Proportions in Mixture.

Section No. 254. Red lead paint shall be mixed in the proportion of 500 lbs.

of red lead to five and one-half ($5\frac{1}{2}$) gallons of boiled oil and eleven (11) gallons of raw linseed oil.

Damaged Shop Coat to be Renewed.

Section No. 255. Where the shop coat has become damaged before or after erection, through any cause whatever, it shall be renewed with the same kind of paint as originally used, such renewal to be considered only as a part of the original shop coat.

Structural Steel and Rods.

Section No. 256. Structural steel and rods to be imbedded in concrete shall be protected from the weather before being put in place, and shall be cleaned and scales removed before being incased in the concrete. Rods shall not be painted.

Second Coat Carbon Paint.

Section No. 257. The second coat of paint shall be a carbon paint approved by the Engineer. It shall be applied after erection, but not until the metal has been cleaned from dirt or other objectionable matter that may be found thereon.

Metal to be Cleaned After Erection.

Section No. 258. After erection the metal shall be thoroughly cleaned of all dirt, rust or scales by stiff wire brushes or sand blasts, as directed, and afterward dusted and thoroughly and evenly painted as described above. No paint shall be applied until the cleaning has been passed upon by an Inspector.

Third Coat.

Section No. 259. Between stations the exposed members shall be given a third coat, which shall be a carbon paint of a color and quality approved by the Engineer. At stations a third coat will not be required under this contract.

Third Coat, When Applied.

Section No. 260. The third or finishing coat shall be applied to all exposed surfaces of the metal after its erection, and after completion of the masonry or other work; it shall be applied at such time after such completion and before the final acceptance of the work as in the judgment of the Engineer may be advisable. The several field coats shall be sufficiently tinted to be distinctive.

Surfaces in Contact.

Section No. 261. Surfaces of exposed members inaccessible after erecting shall be cleaned and painted before erecting.

Recesses, Etc.

Section No. 262. All recesses that might contain water, or through which water could enter, must be filled with thick paint or a waterproof cement of ground skins before receiving final painting.

Surfaces Close Together.

Section No. 263. All surfaces so close together as to prevent the insertion of a brush, must be painted thoroughly by using a piece of cloth, if necessary.

Rainy or Freezing Weather.

Section No. 264. Painting in rainy or freezing weather or on wet surfaces will not be permitted.

Payments.

Section No. 265. Payment for painting is included in the prices for steel and iron.

17.

Drains and Pumps.

Railroad to be Drained.

Section No. 266. Every part of the Railroad must, so far as possible, be so arranged that any water finding access thereto will be led away automatically to the City sewers.

Floor of Railroad as Conduit.

Section No. 267. Where the Railroad is on an inclined gradient, and is constructed in dry, porous soil, the floor of the Railroad may be depended on to act as a conduit. At the bottom of the inclined gradient connections must be made with a sewer or with sub-drains lying beneath the Railroad and draining into the sewers.

Sub-Drains.

Section No. 268. Along such parts of the work where the soil is not porous, or where the floor of the Railroad cannot, in the judgment of the Engineer, be used as a conduit, there shall be laid, beneath the rail level and on a continuous descending gradient, drain pipes of vitrified salt-glazed stoneware, of the quality described in these specifications for sewer pipe. These drain pipes shall be of such diameter not exceeding twelve (12) inches, as the Engineer may direct. Each drain shall be laid in the concrete or directly in the soil with tight or open joints, as directed, and in such manner and in such position as, in the opinion of the Engineer, local circumstances require.

Connections and Cross Drains.

Section No. 269. Where drain pipes connect with the City sewers, the junction shall be protected by suitable traps and back-pressure valves or gate valves where necessary, to prevent back rush of water or gas from the sewers. Connections with the Railroad shall be as necessity demands, and all as directed by the Engineer. Cross drains to connect with the main drains will be placed at such places and in such manner as the Engineer shall direct; also vertical drains at the sides of the Railroad. These drains shall be of vitrified pipe or of cast iron as directed.

Broken Stone for Drainage.

Section No. 270. Broken stone shall be placed for the purposes of drainage as indicated on the plans or as required by the Engineer.

Sumps.

Section No. 271. At the low points of the grade of the Railroad where the same passes below the bottom of adjacent sewers there shall be constructed sumps connected with the sub-drains or the floor of the Railroad. Such sumps must be watertight, with a capacity of not less than eight hundred (800) gallons each.

Pumps for Tunnel Drainage.

Section No. 272. Adjacent to each sump a suitable enclosure shall be provided in which two pumps shall be installed, each of which shall have ample capacity to remove all the water entering the sump at that point under ordinary conditions. These pumps shall be arranged to operate automatically. Under this contract the Contractor will furnish only the pumps required and set them in place as directed, including the necessary pipe and drainage connections between the sumps and sewers.

Capacity.

Section No. 273. If in the opinion of the Engineer the service requires it, each of these pumps shall be able to remove from the sump eight hundred gallons per minute.

Discharge to Sewers, Etc.

Section No. 274. The discharge of such pumps shall be into the City sewers, and all piping, valves, etc., in connection therewith, shall be installed as a part of this contract.

Payment for Drains.

Section No. 275. All drains shall be measured in place and the actual net length as laid for each class of drain will be paid for as herein provided in Schedule Items 17 and 17-A. The prices therein provided for each class of pipe will include providing and laying the pipe and all specials of any nature whatsoever, such as bends, tees, wyes, hand-holes, etc., and all material necessary for joining the same. Where back-pressure valves or gate-valves are required the cost of setting the same will be included in the above, but the Contractor will be paid in addition the actual net cost of such valves plus ten (10) per cent.

Payment for Broken Stone.

Section No. 276. For broken stone for drainage, furnished and placed, Section No. 270, payment will be made as provided in Schedule Item 14.

Payment for Pumps.

Section No. 277. For pumps, Section No. 272, the Contractor will be paid as provided in Article XII of the contract including the pipe connections with sumps and sewers.

Station Drainage.

The station drainage also must be arranged for as prescribed in Section No. 269.

Soil Pipes.

It will be necessary to lay soil pipes in the floors and walls of the stations. These pipes are to be cast iron, "extra heavy." They will be placed in positions as shown on the plans and will be paid for as provided in Schedule Item 34.

18.

Sewers.

In Accordance With Plans and Specifications.

Section No. 278. All sewers and appurtenances shall be built of the materials, of the sizes and dimensions, on the lines and grades

progress of the work to construct any sewers, manholes, or other appurtenances, according to the contract drawings, owing to the presence of unknown subsurface structures or other contingencies, the Contractor shall construct such sewers, manholes or appurtenances in the location given by and according to the directions of the Engineer.

General Clauses Apply.

Section No. 280. The general clauses in this contract relating to excavation, backfilling, cement, mortar, masonry, waterproofing, piling, timber work of all kinds, care of streets and public places, maintenance of surface, subsurface and overhead structures, protection of persons and property, repaving or restoring of the surface of the street or other public places, responsibility of the Contractor, authority of the Engineer to examine and condemn materials, and the power of the Commission and the Engineer in all or any other respects to enforce this contract, apply to the construction and reconstruction of sewers, water mains or pavements, unless specifically amended or exempted, both along the route occupied by the Railroad and elsewhere.

No Claims for Damages.

Section No. 281. Should postponement or delay be occasioned by the precedence of paving or other contracts, which may be either let or executed by the Borough President, Commissioner of Water Supply, Gas and Electricity, or other heads of departments, either before or after the execution of this contract, on the line of the work, no claims for damages therefor shall be made or allowed; nor shall any claim for damages be made or allowed in consequence of the street or the adjoining sewers not being in the condition contemplated by the parties at the time of making the contract, except that if the Contractor shall be delayed in the performance of his work by reason of the street or the adjoining sewers not being in such condition, an allowance of time may be given for the completion of the work as elsewhere provided in this contract.

Size of Trenches.

Section No. 282. The trenches for sewers and basin culverts both in earth and in rock, in streets off the route of the Railroad, shall have vertical sides and shall be six inches wider on each side than the greatest external diameter or width of the sewer, but shall not be less than three feet in width.

In streets along the route of the Railroad the trenches shall be six inches wider than the greatest external width of the sewer or its foundation, on the side farthest away from the subway, but in no case will a width be allowed greater than that specified for sewers off the line of the Railroad. Trenches shall be excavated to the depth and to the form of the sewer or its foundation. Payments for excavation will be based on the requirements as above.

Limit of Trench Opening.

Section No. 283. Not more than one hundred (100) feet of trench in sewers off the line of the Railroad shall be opened at any one time in advance of the sewer already completed, unless by permission of the Engineer, and for a distance specified.

Excavation Completed in Advance.

Section No. 284. The excavation of trenches shall be fully completed a sufficient distance in advance of the laying of the sewer, and the exposed end of the sewer shall in all cases be fully protected.

Trenches for Manholes and Receiving Basins.

Section No. 285. Where the foundation for a manhole or a receiving basin extends beyond the line of such manhole or receiving basin, the excavation required in earth shall be to the lines of the smallest rectangle enclosing the full dimensions of the exterior of the foundation, and shall have vertical sides to the surface, but it shall, in all cases, be six (6) inches larger than the greatest external dimension of the manhole or receiving basin. In rock excavation, the trench shall be six (6) inches larger than the greatest external dimension of the manhole or receiving basin, and shall have vertical sides to the surface.

Foundations.

Section No. 286. Where the ground does not afford a sufficiently solid foundation, the trench shall be excavated to such increased depth as the Engineer may deem necessary, and this extra depth, and all other irregularities in the bottom of the trench, shall be filled up to the required level and form, with such material, and in such manner, as the Engineer shall direct. If so directed, piles shall be driven and a timber or reinforced concrete foundation shall be constructed, as elsewhere provided in these specifications, to support the sewer.

Testing of Grades.

Section No. 287. When the trench is properly prepared, and before laying any sewer, the Contractor shall notify the Engineer, who will, thereupon, cause the grades for the sewer to be tested, and if correct the sewer shall then be laid in the presence of a duly authorized Inspector, and no construction work shall be done in his absence.

Trenches to be Kept Free from Water.

Section No. 288. The trenches shall be kept entirely free from water while the foundation and the masonry are being constructed or the sewer laid. In no case shall water be allowed to flow over the invert or foundation or through the sewer until the mortar is thoroughly set.

Gutters and Passageways to be Kept Open.

Section No. 289. At all times, gutters shall be kept open for surface drainage, and the streets and sidewalks shall be kept clear and free for the passage of carts, wagons, carriages and street or steam railroad cars or pedestrians, and as otherwise provided in these specifications.

Crosswalk, Sidewalk and Roadway to be Kept Clear.

Section No. 290. Where any crosswalk or roadway is cut by the trench, it shall be temporarily replaced by a timber bridge with side railings, according to the direction and approval of the Engineer. The work shall at all times be conducted so as to cause as little inconvenience as practicable to the public.

Disposition of Paying Material.

Section No. 291. All curb, gutter, flagging, paving and macadam stones, necessary to be removed, which in the judgment of the Engineer are suitable to be used again, shall be stored in such places as the Engineer shall direct, or shall be removed as provided in these specifications; in all cases a passageway on the sidewalks and in the roadway shall be preserved free from needless obstructions.

Flow of Sewers to be Maintained.

Section No. 292. The Contractor shall provide for the flow of all sewers, drains and water-courses interrupted during the progress of the work, and shall restore and make good all connections, and shall immediately carry away all offensive matter, in such manner and with such precautions as the Engineer may direct. All temporary house connections shall be made by closed iron pipes, with suitable provision for preventing leakage at joints. Wooden troughs for such connections will not be permitted.

Quality of Brick for Sewers.

Section No. 293. In the construction of brick masonry none but the best quality of common brick burned hard entirely through, regular and uniform in shape and size and of compact texture, shall be used. They shall be culled as they are brought on the ground, and bats and bricks of improper quality are to be removed from the work. A limited number of bats may be used in manholes and closures, and in the outer ring of the sewers where more than two (2) rings of bricks are required.

How Laid.

Section No. 294. The bricks shall be properly wet immediately before laying. Every brick is required to be laid in a full joint of mortar, made as described in these specifications, on its bed, end and side, at one operation. In no case is mortar to be slushed or grouted in afterward. The bricks shall be neatly and truly laid, every second course to line, and the joints to be carefully struck on the inside.

Racked Back or Toothing.

Section No. 295. All brick work, as it progresses, shall be racked back in courses, and in no case will it be allowed to be toothing, unless by special permission from the Engineer.

Brick or Stone Inverts.

Section No. 296. All inverts, or bottom curves, shall be formed from profiles accurately made according to the dimensions of the sewer, and correctly set according to the grades furnished. The masonry shall be allowed to set for twenty-four (24) hours before the arch is turned. Vitrified brick or granite paving blocks shall be used for the inner ring of the invert when required by the Engineer, and whenever so used they must be thoroughly jointed, so as to be water-tight along the inner surface of the sewer. The last course of the invert masonry below the springing line shall be laid as headers.

Brick Arches.

Section No. 297. The arches or upper curves shall be formed on strong centers of correct form, according to the sizes and shapes required, and keyed with stretchers

in full joints of mortar. The extrados of the arch shall be plastered with mortar one (1) inch thick, mixed in the proportion of one (1) part of cement to two (2) parts of sand. The centers shall not be removed or withdrawn in less than thirty-six (36) hours, or until the work is thoroughly set, and until the lining in of the arch is properly put into place to a depth which is at least one (1) foot above the crown of the arch. The centers in all cases shall be struck and not drawn, so as not to crack or injure the work. Should any crack or settlement appear in the arch after the centers are removed, so much of the work as the Engineer may require shall be taken down immediately and replaced.

Spurs.

Section No. 298. Vitrified or iron sewer pipes or spurs, equal in every respect to those described elsewhere in these specifications, and of a size required by the Engineer, but not less than six (6) inches interior diameter with hubs moulded for house connections, and of sufficient length to project at least four inches beyond the exterior of the sewer, shall be built into the walls of brick sewers and at such an angle as indicated on the plan, or as the Engineer may direct.

How Built In.

Section No. 299. Spurs shall be built in wherever similar house connections exist in the present sewer which is to be reconstructed under this contract, but in no case shall the distance be more than twenty feet between spurs. In the case of the construction of new sewers where no sewers existed previously, except sewers crossing intersecting streets, they shall be built opposite each house, and where there are no houses, they shall be not more than fifteen feet apart on each side of the sewer or at such frequent intervals as local conditions may require. They shall be set so that their inner ends shall be flush with the inner face of the sewer, at such height in the walls as the Engineer may direct, and each pipe shall be sealed on the outside with an approved earthen-ware cover set in mortar.

Iron Chair Spurs.

Section No. 300. Where the sewers to be built under this contract will be at a depth greater than thirteen feet below the established grade of the street (or below the surface of the street where final grades have not been established), cast iron chair spurs, of the design shown on the drawings, not less than six inches in diameter and of the weight of extra heavy soil pipe, shall be used unless otherwise ordered by the Engineer. Where house drains are to be connected to these spurs, extra heavy soil pipe and fittings shall be used for the riser between the spur and the house drain. Where spurs are provided for future connections, risers of extra heavy soil pipe shall be placed in each spur and shall be brought to a point thirteen feet below the established grade of the street, the end of which shall be sealed with an approved cover laid in cement mortar. The joints of this pipe shall be packed, leaded and caulked in accordance with these specifications for laying water-mains.

Under Another Structure.

Section No. 301. Wherever the sewer passes under another structure extra heavy soil pipe (Schedule Item 17-A) shall be laid from the spur to the outside of such structure, brought up to a point thirteen (13) feet below the established grade of the street, caulked and sealed as provided above. All pipes passing under such structure shall be laid in concrete.

Concrete May be Substituted for Brick.

Section No. 302. If, during the construction of the sewers, it is deemed advisable to interchange concrete and brick, the Contractor may, with the approval of the Engineer, build such sewers of either kind and quality herein specified.

Steel Bars Used if Ordered.

Section No. 303. Concrete sewers shall be reinforced with steel bars, if so indicated on the plans or directed by the Engineer.

Profiles and Inverted Centres for Inverts.

Section No. 304. Proper profiles for the concrete inverts shall be set up at the required distances, and the concrete for the bottom and invert of the sewer shall be deposited in place and rammed and worked down to the required shape. The concrete for the bottom and invert, if so directed, shall be placed in alternate lengths extending between every other pair of profiles, so that opportunity may be given to properly work the concrete in place.

Invert to be Protected.

Section No. 305. The concrete of the invert shall be protected during the progress of the work with planking, or by such other suitable methods as the Engineer shall direct and for so long a time as may be required.

Forms, Molds, etc.

Section No. 306. Suitable forms or molds, of the size and design to be approved by the Engineer, shall be provided by the Contractor to support the concrete of the side walls and roof while the same is being rammed into the permanent work.

Defective Work.

Section No. 307. If any voids, or irregular or defective work is discovered upon removing the forms or molds, such voids or work shall be cut out and filled with a rich concrete or mortar mixed in such proportions and of such materials as provided elsewhere in these specifications.

Joints.

Section No. 308. No joints between different sections of the walls of a sewer shall, in any case, be a straight line, but shall always be stepped or toothed, so as to give a broken joint in the manner to be approved by the Engineer.

Spur Pipes, Branches, etc.

Section No. 309. In so far as they will be applicable to sewers constructed of concrete, the provisions and requirements for spurs, branches, etc., in brick sewers shall be understood to govern in such construction.

Vitrified Pipe Sewers—Quality of Pipe.

Section No. 310. The pipe sewers shall be built of vitrified, salt glazed stone-ware pipe, with extra deep and wide sockets and corrugated spigot ends. The pipe shall be of the best quality, thoroughly and perfectly burnt, without warps, cracks or imperfections, well and smoothly glazed over the entire inner and outer surfaces and perfect in shape. The pipe shall be subject to all tests ordered in conformity with any requirements of the Bureau of Sewers of the Borough in which the work is located, at any time previous to its being used.

Dimensions.

Section No. 311. The size of the pipes shall be designated by their interior diameters. Each pipe shall be a true cylinder, and of even thickness throughout, and shall conform to the following scheduled dimensions:

Double Strength Pipe; Extra Deep and Wide Sockets.

Dimensions.

Diameter.	Thickness of Shell	Depth of Socket.	Length of Plain Straight Pipe.	Weight of Pipe Per Foot.	Annular Space.
Inches.	Inches.	Inches.	Feet.	Pounds.	Inches
6	5/8	2 1/2	2	16	5/8
8	3/4	2 1/4	3	25	5/8
10	7/8	2 3/4	3	37	5/8
12	1	3	3	45	5/8
15	1 1/4	3	3	75	5/8
18	1 1/2	3 1/4	3	118	5/8
20	1 1/4	3 1/2	3	148	5/8
22	1 5/8	3 3/4	3	157	5/8
24	2	4	3	190	5/8

"Specials."

Section No. 312. All "special" vitrified pipe shall conform to the dimensions given for plain straight pipe.

Spur Pipes.

Section No. 313. Pipes having spurs not less than six inches in diameter with hubs molded thereon for house connections shall be furnished and laid at such points as indicated on the plan or as directed by the Engineer, and when not immediately used, they shall be sealed on the outside with approved vitrified earthen-ware covers set in mortar.

Risers.

Section No. 314. The provisions for risers on brick sewers shall also apply to pipe sewers.

Pipe Sewers, How Laid.

Section No. 315. All pipes shall be laid in concrete cradles of the required form and dimensions. The minimum thickness of concrete under the outside of the shell or barrel, shall be six (6) inches. The first layer of concrete shall be for the full

width of the cradle, and deposited continuously to the height of the outside bottom of the shell of the pipe; before the concrete has set the pipe shall be firmly bedded therein true to line and grade and the remainder of the concrete immediately deposited and carefully tamped in such a manner as to avoid disturbing the sewer. The ends of the pipes shall abut against each other and in such manner that there shall be no shoulder or unevenness of any kind along the bottom half of the sewer on the inside. Unless otherwise ordered, not less than fifteen feet of pipe shall be laid at any one time, in any one length of trench, and it shall be exposed for at least twenty-four hours for inspection.

Joining Hub and Spigot Pipes.

Section No. 316. Before inserting the spigot end of the pipe into the hub or socket, the lower half of each socket shall be plastered on the inside with a layer of cement mortar mixed in the proportion of one part of cement to $1\frac{1}{2}$ parts of sand and of a sufficient thickness to bring the inner bottom surfaces of the abutting pipes flush and even with the established flow line. After pipes are fitted, the space between the inside of the upper half of each socket and the outside of the entering pipe shall be filled with cement mortar, mixed as above specified, and the outside of the joint shall be thoroughly sealed with the same kind of mortar and the joints carefully wiped to a smooth bevel outside, and all mortar that may be left on the inside of the pipe must be thoroughly removed and the inside of the pipe left clean and smooth throughout.

Pipes to be Cut.

The ends of pipes, which enter masonry, shall be neatly cut to fit the face of the masonry. When directed, such cutting shall be done before the pipes are built in.

Iron Pipe Sewers.

Section No. 317. Sewers of iron pipe, of the quality and laid in the manner described elsewhere in these specifications for the laying of water mains, shall be laid wherever indicated on the plans or at such places as the Engineer shall direct.

Special Castings.

Section No. 318. Wherever such pipes are laid through vaults they shall, when required by the Engineer, be provided with special castings for manholes, which shall be fitted with a cover bolted on so as to make an air-tight joint, according to the plans to be furnished by the Engineer.

Ventilators.

Section No. 319. Whenever, in the opinion of the Engineer, it becomes necessary to provide ventilation for sewers under other structures, iron pipe shall be laid from the sewer to the surface of the street and fitted with proper gratings according to the plans to be furnished by the Engineer.

Connections.

Section No. 320. All existing sewers, culverts, drains and house connections intersected by the proposed sewers, culverts or receiving basins shall be connected with the new work by proper curves and grades and in such manner as the Engineer shall direct; and all drains, basins or culverts rendered unnecessary or becoming disused by the work herein contemplated shall be filled in and made solid with good wholesome earth in the manner directed. Provision shall also be made for the connection of future sewers or basins by constructing brick spurs or inserting vitrified pipe at the points indicated on the contract drawings and at other points as the Engineer may direct. These connections shall be closed with bulkheads not less than eight inches in thickness and of the quality specified for brick masonry.

Fresh Work to be Protected.

Section No. 321. All fresh work shall be carefully protected from injury in every way. No wheeling or walking will be allowed on it and any portion injured must be relaid by the Contractor; no walking or working over the pipes after they are laid, except as may be necessary in tamping the earth and refilling, will be allowed until there is at least two and one-half feet of earth over them.

Pipes to be Kept Clean.

Section No. 322. The interior of pipe sewers shall be carefully freed from all dirt, cement and superfluous material of every description as the work progresses, for which purpose a disc, mold or plate, attached to a rod sufficiently long to pass two joints from the end of the pipe last laid, shall be continuously worked through.

Exposed Ends of Pipes to be Protected.

Section No. 323. The exposed ends of pipe sewers shall, in all cases, be protected with a board or other stopper carefully fitted to the pipe, to prevent earth or other substances from washing in, and in no case shall brick or stone be used for that purpose.

Manholes.

Section No. 324. The masonry of manholes shall be carried up so that the top of the iron head when set shall be at the level of the established grade of the street at that point or to such height as the Engineer may direct, and from templates correctly made and set at top and bottom, between which not less than eight lines shall be drawn. Where manholes are not built to the established grade of the street, they shall be covered, when necessary, by selected bluestone slabs eight inches in thickness, to support the manhole heads. All joints shall be neatly struck and pointed on the inside. Each manhole shall be plastered thoroughly on the outside with cement mortar one inch in thickness, mixed in the proportion of one part of cement to two parts of sand.

Foundations.

Section No. 325. The foundations for manholes shall be of concrete or masonry of the kind indicated on the plans and shall be not less than twelve inches below the invert elevation of the sewer, except as otherwise indicated on the plan. When foundation additional to that indicated on the plan is required, it shall be built as directed by the Engineer.

Pipe Connections.

Section No. 326. Sewer pipes shall be built in and trimmed, when necessary, so as to be flush with the inner face of the manhole, and an arch, laid in cement mortar, shall be turned over the pipe.

Vitrified Bricks or Granite Blocks.

Section No. 327. The invert shall be built of vitrified brick, granite paving blocks or concrete masonry, as indicated on the contract drawings.

Use of Bats.

Section No. 328. A reasonable number of bats not smaller than half bricks may be used in the construction of manholes or receiving basins, provided all interstices are thoroughly filled with mortar.

Steps.

Section No. 329. Standard steps of good quality of galvanized wrought iron, of the size, length and shape required for steps, shall be built into the interior sides of all manholes at a distance apart of not more than fifteen (15) inches vertically and they shall be so arranged that the lowest step shall be not more than two feet above the bench at the bottom of the manholes nor more than two feet above the invert of the sewer where there is no bench. Each manhole head shall be cast with a wrought iron step on the inside, when directed by the Engineer.

Bluestone.

Section No. 330. Hammer-dressed bluestone shall be furnished and laid of the form and thickness required as indicated on the plans or as otherwise directed.

Manhole Head and Cover.

Section No. 331. A cast-iron manhole head and cover of the quality specified for cast-iron, and except in special cases, of the pattern adopted by the President of the Borough in which the work is located, and in dimensions, weight and all other respects satisfactory to the Engineer shall be fitted on a bed of mortar to each of the above described manholes. Manhole heads and covers which do not conform to these specifications shall be removed at once from the work.

Perforations.

Section No. 332. Covers to be used on manholes in the street shall be perforated. Those used on sidewalk manholes shall be tight-fitting without perforations.

Weights.

Section No. 333. Each manhole head and cover shall have its weight distinctly marked upon it with oil paint. The following shall be allowed as the minimum and maximum weights:

Street manhole head, 475 to 500 pounds.

Street manhole cover, 135 to 150 pounds.

Sidewalk manhole head, 300 to 310 pounds.

Sidewalk manhole cover, 100 to 110 pounds.

Noiseless Heads and Covers.

Section No. 334. When the pavement of the street is asphalt or wooden block, the manhole shall be fitted with a noiseless head and cover, to be approved by the Engineer, where new heads and covers are necessary.

Sealed Heads in Vaults.

Section No. 335. All manholes in vaults or other structures shall be provided

with sealed manhole heads and covers according to the design indicated on the plans.

Emergency Manholes.

Section No. 336. Where a sewer crosses under the subway, emergency manholes shall be provided when directed by the Engineer and according to plans to be furnished by him.

Manholes to Be Completed.

Section No. 337. Manholes shall in all cases be fully and completely built and fitted with their covers as the work progresses, and the sewers shall not be laid beyond or in advance of any uncompleted manhole.

Receiving Basins.

Section No. 338. Receiving basins shall be built as located on the plans or as the Engineer shall direct and in accordance with the plans to be furnished. Each portion of the basin shall be built of the size and materials designated on said drawings and shall be thoroughly plastered, both inside and outside, with cement mortar in the proportion of one part of cement to two parts of sand.

Foundations.

Section No. 339. The foundations for receiving basins shall be of concrete or masonry of the kind indicated on the plans and shall extend not less than twelve inches below the finished floor of the basin, except as otherwise indicated on the plans. When additional foundation is required, it shall be built as directed by the Engineer.

Stone Flooring.

Section No. 340. The flooring shall be of hammer-dressed North River bluestone flagging, not less than three inches thick, in not more than two pieces, and shall be well set in a full bed of mortar and rammed into place. The floor may be finished with cement mortar mixed in the proportion of one part of cement to one part of sand, if so directed by the Engineer. The mortar shall be spread, while fresh, upon the concrete base and before the latter shall have reached its first set; it shall be in such quantity that after thorough manipulation it shall be one inch in thickness.

Head Stone and Gutter Stone.

Section No. 341. Where head stone and gutter stone are required they shall be of sound, durable granite of the dimensions indicated on the plan, hammer dressed to an even surface and cut to the satisfaction of the Engineer. Cast-iron basin heads and gutter pieces of the design indicated on the plans shall be set instead of the above when required.

Cast-iron Cover.

Section No. 342. A cast-iron cover of approved pattern weighing not less than eighty nor more than ninety-five pounds shall be fitted to the opening in the head stone.

Grate Bar.

Section No. 343. A grate bar made according to the plan shall be fastened solidly into the said head stone in the manner indicated.

Cast-iron Trap.

Section No. 344. A cast-iron trap of the form and dimensions indicated on the plan free from imperfections, and properly coated with coal pitch varnish shall be furnished and built into place, as directed by the Engineer.

Joints.

Section No. 345. The joints shall be tightly fitted with an oakum gasket or with cement mortar, if so directed.

Iron Steps.

Section No. 346. Galvanized iron steps of the same design required for manholes shall be built into the walls.

Culvert Pipes.

Section No. 347. The culvert pipe for connections with sewers shall be 12-inch vitrified pipe unless otherwise indicated on the plan, and of the kind and quality previously described, and shall be laid, in all cases, in a concrete cradle of the form and dimensions required for pipe sewers, in accordance with the directions of the Engineer. In case it becomes necessary to connect any basin already built with the work to be constructed, so much of such culverts as in the opinion of the Engineer may be necessary shall be taken up and rebuilt or relaid with vitrified pipe, or brick, as the case may be, in the manner described above, and reconnected in a straight line from the basin to the sewer.

Flush Tanks.

Section No. 348. Automatic flush tanks of a type approved by the Engineer shall be built where indicated on the plans or where directed by the Engineer.

Waterproofing.

Section No. 349. Whenever, in the opinion of the Engineer, it is necessary to waterproof a sewer, chamber or receiving basin, or their appurtenances, it shall be done as indicated on the plans or as directed by the Engineer and in the manner described elsewhere in these specifications.

Mortar.

Section No. 350. All masonry shall be laid in Portland cement mortar of the quality described in these specifications. It shall be mixed in the proportion of one (1) part of cement to two (2) parts of sand, excepting as otherwise specially provided.

Concrete.

Section No. 351. All concrete for sewers shall be made in the proportion of one (1) part of cement to two (2) parts of sand and four (4) parts of stone of the quality described in these specifications.

Paving.

Section No. 352. On the completion of each section of one hundred feet of sewer, the sidewalks and roadways shall be restored as provided under specification Subdivision 22, Surfaces Restored.

Permits for Connections.

Section No. 353. The Commissioner of Public Works shall have the right to connect any sewer or sewers with the sewers herein described or to grant permits to any person or persons to make connections therewith at any time before it is finally completed, and the Contractor shall not interfere with or place obstructions in the way of such person or persons as may be employed in building such new sewer or sewers or in making such connections. This is not to be construed, however, as permitting the introduction of storm water or sewage into any sewer being constructed under this contract before its final completion.

Thoroughly Cleaned.

Section No. 354. During the progress of the work, and until the entire completion and final acceptance thereof, the sewers, drains, basins, culverts and connections shall be kept thoroughly cleaned throughout, and left clean, and the drainage of any old sewer that may be taken up or intercepted shall be provided for and taken care of by the Contractor, all at his own expense.

Payment for Sewers.

Section No. 355. Payment for sewers will be per lineal foot of sewer complete as herein provided in Schedule Items 37 to 40, 40-A, 41 to 43, 45, 53, 54-A and 56-A, except as hereinafter specifically provided. The price for each class of sewer is to include each and every item applicable thereto as herein given in Sections Nos. 278 to 354 of these specifications and as otherwise provided in the contract and as indicated on the plans; excepting as is hereinafter specially provided.

Excavation.

Section No. 356. In addition to the price per lineal foot for completed sewer, as above provided, excavation will be paid for at the prices herein stipulated in Schedule Items 2-A and 3-A (which prices shall include all the matters referred to in Section No. 92), on the basis of size of trench stipulated in Sections Nos. 282 and 285. Payment for street surface restored shall be as provided in Schedule Item 30 (a), (e), and (j).

Steel Beams and Reinforcing Rods.

Section No. 357. Where steel beams or reinforcing rods are required and ordered, such beams and rods will be paid for in addition to the price bid for the sewer and at the prices herein stipulated for furnishing and placing such material and all work incidental thereto, in Schedule Item 20 or 21.

Automatic Flush Tanks.

Section No. 358. Where automatic flush tanks are built as provided in Section No. 348 of the specifications they will be paid for as herein provided in Article XII of the contract.

Waterproofing.

Section No. 359. Where waterproofing is required and placed in accordance with Section No. 349 of the specifications it will be paid for at the prices herein stipulated for waterproofing, Schedule Item 15 or 16.

Siphons.

Section No. 360. Where inverted siphons passing under the subway structure are called for and built, they shall be considered as part of the regular subway construction from outside to outside of the sewer chambers or between points of departure from standard sewer construction, such limits being indicated on the plans; and payment for such siphons will be made in accordance with the various classes of work or material as are applicable thereto in the Schedule and at the prices therein stipulated for such items.

Cast-iron Pipe Sewers, etc.

Section No. 361. All cast-iron pipe sewers wherever built, and the parts within the limits of the Railroad, when indicated on the plans, of all other sewers crossing over or under the Railroad, will be paid for in accordance with the various classes of work or material applicable thereto in the Schedule and at the prices stipulated therein for such classes of work or material.

For all manholes or receiving basins constructed in accordance with the provision of this section, the cast or wrought iron furnishings (except pipes) will be paid for under Schedule Item 25-C, which item however is applicable only to the class of work covered by this section.

House and Drainage Connections.

Section No. 362. The cost of the maintenance, support or construction of all house or other drainage connections made necessary by construction under Sections Nos. 360 and 361 will be included in the prices for the several classes of work and material entering into such construction.

Sewers Under Station Platforms.

Wherever a sewer passes under a station or station platform, all the requirements with respect to extra heavy soil pipe, special manhole castings, ventilating pipes, and sealed manhole covers, as included in Sections Nos. 301, 318, 319 and 335, respectively, apply in every respect.

19.

Requirements for Pipes.

General.

Section No. 363. Whenever it is necessary to relay any water main, all new material required for the same shall be of the quality and laid in the manner specified below, and subject to the various clauses of these specifications applicable thereto.

Pipes to be Cylinders.

Section No. 364. The pipes shall be circular cylinders, with the inner and outer surfaces concentric, and of the full interior diameter required.

Hubs and Spigots.

Section No. 365. The hub or socket and the spigot end shall be shaped in exact conformity with the standards of the Department of Water Supply, to be furnished by the Commission, and will be tested by circular gauges.

Workmanship.

Section No. 366. The seat or shoulder of the socket and the end of the spigot shall be straight and even, and at right angles to the axis of the pipe, so as to make a smooth, tight joint. Special care will be required in making the sockets and spigots to conform to the drawings and all pipes will be rigorously inspected at these points. No pipe will be received whose eccentricity at either the spigot or socket ends, exceeds one-eighth ($\frac{1}{8}$) of an inch, or whose dimensions differ by more than one-eighth ($\frac{1}{8}$) of an inch from those required.

Interior Diameter.

Section No. 367. The pipes shall be designated by dimensions of the interior diameter.

Lugs, Etc.

Section No. 368. Bands, lugs, buttons, or ribs shall, if required, be cast on the pipes, of such forms and dimensions as the Engineer may direct.

Length of Pipe.

Section No. 369. The straight pipe shall be twelve (12) feet long, exclusive of hub; other pipe as may be directed.

Straightness.

Section No. 370. All straight pipes shall be straight in the direction of the axis of the cylinder.

Thickness and Weights.

Section No. 371. The thickness of the pipes, branches and special castings shall correspond with the standards of the Department of Water Supply. The weight for straight pipe shall be as follows:

6-inch pipes, special.	
48-inch pipes, 9,886 pounds each.	
42-inch pipes, special.	
36-inch pipes, 5,920 pounds each.	
30-inch pipes, 4,460 pounds each.	
24-inch pipes, 2,965 pounds each.	
20-inch pipes, 1,979 pounds each.	
16-inch pipes, 1,458 pounds each.	
12-inch pipes, 1,018 pounds each.	
8-inch pipes, 542 pounds each.	
6-inch pipes, 416 pounds each	

High Pressure Fire System.

Section No. 372. For high-pressure fire system standard spigot and grooves—the weights for straight pipes, with lugs, shall be as follows, in pounds per length:

	Of 3 ft.	Of 4 ft.	Of 6 ft.	Of 12 ft.
8-inch	355	420	550	935
12-inch	615	745	1,000	1,765
16-inch	1,005	1,215	1,635	2,905
20-inch	1,475	1,795	2,425	4,320
24-inch	2,105	2,585	3,535	6,385

All requirements as to weights, laying, tests, etc., shall be in strict accordance with the standard requirements of the Department of Water Supply, Gas and Electricity.

Will Be Caliper.

Section No. 373. The thickness of the metal of the pipes and special castings will be tested by calipers after the castings have been freed from sand and cleaned.

Variations in Thickness.

Section No. 374. No pipe will be received when the thickness of metal is less by more than one-twelfth ($\frac{1}{12}$) of an inch than the thickness required by the standards.

Variation in Weights.

Section No. 375. Any straight pipe the weight of which is deficient by more than the following stated percentages of the standard weight, will be rejected:

For pipe 16 inches or less in diameter, 5 per cent.

For pipe over 16 inches in diameter, 4 per cent.

Excess weight in any one pipe not to exceed the above stated percentages will be paid for. The total weight, however, to be paid for shall not exceed for each size of pipe received the sum of the standard weights of the same number of pieces of the given size, by more than two (2) per centum.

(The term "Standard Weight" as above used in connection with straight pipe shall be taken to mean the standard weight corresponding to the actual laying length of the pipe as furnished.)

Variation of Weight of Special Castings.

Any special casting the weight of which is deficient by more than the following stated percentages of the standard weight will be rejected:

For special castings 12 inches or less in diameter 10 per cent.

For special castings over 12 inches in diameter 8 per cent.

Excess weight in any one special casting, not to exceed the following stated percentages, will be paid for:

For special castings 12 inches or less in diameter 8 per cent.

For special castings over 12 inches in diameter 6 per cent.

The total weight, however, to be paid for shall not exceed for the special castings received the sum of the standard weights of the same number of special castings by more than five (5) per cent.

Straight Pipe Cast Vertically.

SECTION No. 376. All straight pipes shall be cast vertically, and all pipes 12 inches or more in diameter shall be cast with the hub end down.

Clean and Smooth.

SECTION No. 377. All the castings shall be made in such moulding-sand or loam as will leave the surface clean and smooth.

Castings, How Marked.

SECTION No. 378. All the castings shall have the year in which they are cast, the running number of the castings of the same size and form, the letters D. W. S., and the initials or name of the Contractor, and of the foundry where cast, cast on the outer side in raised letters of not less than two (2) inches in length and one-eighth ($\frac{1}{8}$) of an inch in relief, in such manner as the Engineer may designate; and in case any pipe shall be condemned, the letters D. W. S. shall be erased by the Contractor.

Quality of Cast-Iron.

SECTION No. 379. The metal of which the castings are to be cast (which shall be remelted in a cupola or air-furnace) shall be pig-iron, made without any admixture of cinder-iron, or other inferior metal, and shall be of such character as to make a pipe strong, tough and of an even grain, entirely free from uncombined carbon when seen under the microscope, and such as will bear, satisfactorily, drilling and cutting, and shall have a tensile strength of at least sixteen thousand (16,000) pounds to the square inch.

Imperfections.

SECTION No. 380. The castings shall be free from scoria, sand holes, air bubbles, and other defects and imperfections.

Castings To Be Clean.

SECTION No. 381. The castings shall be perfectly cleaned and no jumps shall be left on the inner surface of the barrels or sockets, or on the outer surface of the spigot end. The castings shall be subject to hammer inspection. Iron-wire brushes shall be used, as well as softer brushes, to remove the loose dust. No acid or other liquid shall be used in cleaning the castings.

Pipes To Be Coated.

SECTION No. 382. Every pipe, branch and special casting shall be carefully coated inside and out with coal pitch and oil. Every casting shall likewise be entirely free from rust when the coating is applied. If the casting cannot be dipped immediately after being cleaned, the surface shall be oiled with linseed oil, to preserve it until it is ready to be dipped. No casting shall be dipped after rust has set in.

Pitch.

SECTION No. 383. The coal-tar pitch shall be made from coal-tar distilled until the naphtha is entirely removed and the material mixed with linseed oil so as to make a smooth, tough and tenacious coating. Pitch which becomes hard and brittle when cold will not answer for this use.

Temperature of Pitch.

SECTION No. 384. Pitch of the proper quality having been obtained, it shall be carefully heated in a suitable vessel to a temperature of three hundred (300) degrees Fahrenheit, and shall be maintained at not less than this temperature during the time of dipping. The material will thicken and deteriorate after a number of pipes have been dipped; fresh pitch shall, therefore, be frequently added, and occasionally the vessel shall be entirely emptied of its old contents and refilled with fresh pitch.

Temperature of Casting.

SECTION No. 385. Every casting shall attain a temperature of three hundred (300) degrees Fahrenheit before being removed from the vessel of hot pitch. It shall then be slowly removed and laid on skids to drip.

To Be Inspected Before Dipping.

SECTION No. 386. No casting shall be dipped until the authorized inspector has examined it as to cleaning and rust, and subjected it thoroughly to the hammer test. It may then be dipped, after which it will be passed to the hydraulic press to meet the required water test. The proper coating shall be tough and tenacious when cold on the pipes, and not brittle or with any tendency to scale off.

Tests.

SECTION No. 387. The castings must be capable of sustaining a pressure, in the hydraulic press, of three hundred (300) pounds to a square inch, and any casting which shows any defect by leaking, sweating or otherwise will be rejected. This test shall be made at the foundry, and at the expense of the Contractor.

Weighed and Marked.

SECTION No. 388. The castings shall be weighed, and the weight distinctly marked on the castings in white paint. The Contractor shall provide at the foundry where the pipes and castings are to be manufactured proper sealed scales and weights for weighing the castings, which shall be done at the expense of the Contractor, under the supervision of the inspector.

Blocking and Wedges.

SECTION No. 389. Each pipe over eight (8) inches inside diameter, unless otherwise ordered, shall be placed on two (2) blocks and four (4) wedges of hemlock timber, the wedges to rest on the blocks and the pipe on the wedges.

Timber for Blocking.

SECTION No. 390. The blocks and wedges shall be of sound hemlock timber; 48 and 36-inch pipe shall be laid on blocks 4 feet long, 12 inches wide and 6 inches thick, with wedges 18 inches long, 6 inches wide, 4 inches thick on one end and $\frac{1}{2}$ inch thick on the other; 30 and 24-inch pipe on blocks 3 feet long, 10 inches wide and 5 inches thick, with wedges 15 inches long, 5 inches wide and $\frac{3}{4}$ inches thick on one end and $\frac{1}{2}$ inch thick on the other end; 12 and 20-inch pipe on blocks 2 feet long, 8 inches wide and 4 inches thick, with wedges 12 inches long, 4 inches wide, 3 inches thick on one end and $\frac{1}{2}$ inch thick on the other.

Joints.

SECTION No. 391. The spigot end of the pipe shall be inserted into the hub to within from one-fourth ($\frac{1}{4}$) to one-eighth ($\frac{1}{8}$) of an inch of the full depth of the hub, and the space around the pipe shall be equalized so as to give as nearly as possible an equal space for the packing. The space between the pipe and hub shall be packed with clean, sound jute packing yarn, free from tar, far enough to leave the proper space for lead. The remaining space shall then be filled by running it full of lead to a depth of four (4) inches, with a bead outside of the face of the hub large enough to allow for caulking, so that when the joint is properly caulked the lead will be flush with the hub of the pipe. After the joint shall have been run with lead, it shall be caulked by means of proper tools, so as to make a water-tight joint.

Lead.

SECTION No. 392. The lead to be used shall be of the best quality of pure, soft lead, and in every respect suitable for the purpose.

Notice of Interruption To Be Given.

SECTION No. 393. In case it becomes necessary to cut any connection with any other main, house or hydrant, or in any way to interfere with the continuous and normal flow of water, due notice shall be sent at least forty-eight (48) hours in advance to the Engineer and to the Commissioner of Water Supply, and the Contractor shall, if so ordered, make a temporary by-pass or other arrangement to preserve the flow of water while breaking connections.

Connections Interfered With.

SECTION No. 394. All connections cut, interfered with or injured shall be restored under the directions of the Engineer, without delay, and in accordance with the rules and regulations of the Department of Water Supply governing such matters, to a suitable condition as good as existed before commencing work.

Stop Cocks, etc.

SECTION No. 395. Stop cocks, boxes, branches, curved pipe, and other specials according to the standards of the Department of Water Supply shall be set where necessary.

Specifications of Owners Apply.

SECTION No. 396. For gas pipes, steam pipes, air pipes, mail tubes and any other pipes not herein enumerated, the standard weights and all other requirements shall be in accordance with the standard specifications and requirements of the several owners of such structures.

20.

Ducts.

SECTION No. 397. The ducts to contain cables for transmitting electricity shall be manufactured of the best clay, thoroughly mixed, burnt and vitrified, sound in all respects, straight and free from soft spots, stones, cracks or blisters liable to impair their strength or durability; in lengths generally of from eighteen (18) to thirty-six (36) inches; shorter lengths shall be used only as directed; generally in four-way form with circular holes, the diameter to be such as to pass a mandrel three and one-half ($\frac{3}{2}$) inches in diameter; one, two or three-way ducts shall be used in special cases as determined by the Engineer. The interior surface of the holes to be smooth and clear of warts, pits or blisters, which may tend to injure the electric cable in pulling the same through the duct. The ends to be cut smooth and at right angles to the axis of the duct and beveled on inside for three-quarters ($\frac{3}{4}$) of an inch.

Thickness of Ducts.

Section No. 398. The outside walls and webs of four-way ducts to be three-quarters ($\frac{3}{4}$) of an inch thick; the outside dimensions of ducts to be not less than nine and one-quarter ($\frac{9}{4}$) nor more than ten (10) inches, and constructed square on outer lines; the dimensions of single, two-way or three-way ducts shall be consistent with the above.

Ends Combed.

Section No. 399. The ends of ducts to be combed with two (2) sets of three (3) comings each, each coming to have a width of one-quarter ($\frac{1}{4}$) of an inch and a depth of one-sixteenth ($\frac{1}{16}$) of an inch.

Glaze.

Section No. 400. The inside and outside of ducts to be thoroughly glazed in the most approved manner with good salt glaze.

Inspection.

Section No. 401. All ducts to be subject to inspection, both at the place of manufacture and on the work. All rejected ducts to be promptly removed by the Contractor at his expense.

How Laid.

Section No. 402. The ducts shall be laid in beds of cement mortar about one-quarter ($\frac{1}{4}$) of an inch in thickness, with broken joints and with full bearing. Two (2) strips of thick unbleached muslin six (6) inches wide, and coated with neat cement mortar, shall be used to wrap each joint, the ends of the wrap to lap six (6) inches. The muslin shall be not less than 56 x 60 count, weight not less than four (4) ounces to the yard and width thirty-six (36) inches. In laying the ducts care must be taken to close abutting joints so that practically the ends of ducts shall be in contact on all sides. Where ducts are laid on curves, the wraps must be doubled if required, to protect the openings between the ends of the ducts on the outer line of the duct and to exclude all mortar from duct openings.

Mandrels.

Section No. 403. The ducts shall be laid with a linked mandrel of the length and diameter to be prescribed, the same accurately fitting the duct openings, the mandrel to be left in each duct until the next succeeding duct is laid.

Dowel Pins.

Section No. 404. The ducts shall be laid with dowel pins, at least two pins on the opposite sides horizontally.

Laid to Line.

Section No. 405. The ducts shall be so laid that the centre of the holes shall be true to line and grade.

To Be Rodded.

Section No. 406. After the ducts are laid, and sufficient time is given to allow the mortar in beds to set, they shall be rodded; all mortar or other foreign matter must be cleaned from the duct openings, leaving a clear and smooth opening. If obstructions are found in rodding the ducts which cannot be removed by cleaners, so as to give a clear and smooth opening sufficient to pass a three and one-quarter ($\frac{3}{4}$) inch mandrel, the ducts shall be removed and relaid; all ducts, during the construction and after being rodded, shall be plugged with suitable plugs, to be furnished by the Contractor. If wooden plugs are used they shall be immersed in water for at least eight (8) hours before being put in place.

Measurement and Payment for Vitrified Ducts.

Section No. 407. Tunnel ducts shall be paid for per duct foot in place at the price herein stipulated for tunnel ducts, Schedule Item 18, which price shall include the cost of furnishing, laying, rodding and all the material and work incidental thereto. The tunnel ducts to be provided under Schedule Item 18, shall include only those intended solely for the purpose of the operation of the Railroad, either those incorporated in the Railroad structure or those laid on top of it.

Duct Manholes.

Section No. 408. Duct manholes shall be built at the sides of the Railroad in connection therewith and as indicated on the plans. These manholes shall be generally at intervals of about four hundred and fifty (450) feet, and shall be on either or both sides of the Railroad as necessary, in accordance with the location of the duct lines. They may vary in form as may be necessary to accommodate the work to local conditions. They are to be considered as part of the subway structure, and paid for at the schedule prices for such work. Sliding steel doors of an approved type and with the necessary fittings shall be provided for all duct manholes. Such doors and fittings will be paid for as riveted steel, Schedule Item 19.

Duct Manholes At Stations.

Duct manholes will be built at the ends of the stations to provide for the passage of the ducts under the station platforms.

Special.

Section No. 409. At manholes the ducts will be laid to conform to the special conditions.

21.

Conduits.

Open Construction Required.

Section No. 410. In all work where iron pipe conduits are installed for a part of their length in the structure and for another part as open construction, the ends of such runs shall be carried outside of said structure as open construction and shall terminate in outlet or junction boxes located by the Engineer.

Usually to Be Built in.

Section No. 411. The iron pipe conduits required by Section No. 410 will be built mainly in the walls, roofs or other parts of the stations; portions, however, of the runs will be left exposed, to be covered later by the station finish work.

Quality of Iron Pipe Conduit.

Section No. 412. All iron conduits used for any purpose in connection with the work herein shall be of the best grade (Galvaduct or equal) standard weight wrought iron or steel piping, protected inside and out by a coat of zinc or enamel. It shall be delivered to the work in bundles of full length pipes, each length marked with the trade mark of the manufacturer. It shall bend cold 90 degrees about a radius equal to ten diameters without signs of flaw or fracture in either pipe or enamel.

Cleaning and Workmanship.

Section No. 413. All conduits shall be carefully cleaned before and after erection, and all ends shall be reamed free from burrs, and inside surfaces shall be free from all imperfections liable to injure the cable.

Joints Water-Tight.

Section No. 414. All joints shall be made with standard couplings, well treated with red lead, and screwed up to make a water-tight job.

Support and Protection.

Section No. 415. Conduits built into concrete or other parts of the structure shall be properly protected and supported, so that the same shall not be injured by the building operations.

Section No. 416. Conduit not built into the structure shall be supported by approved pipe straps located not more than eight feet apart, or in any other manner designated by the Engineer, and they shall be kept boxed or otherwise suitably protected from injury.

Bends and Offsets.

Section No. 417. Bends and offsets may be made in the field if proper tools are used, but in no case shall deformed, split or crushed conduit be erected. Not more than two right angle bends shall be made between any two outlet boxes without special approval of the Engineer.

Measurement and Payment.

Section No. 418. Measurements for the above iron pipe conduits shall be per lineal foot of single conduit placed in the work—in accordance with the requirements—and payment for the same shall be as herein stipulated in Schedule Item 32.

Outlet and Pull Boxes and Payment for Same.

Section No. 419. All outlet and pull boxes shall be made of cast iron, with openings threaded for the conduit ends, and conduits shall be screwed into these openings and made up with red lead to effect a water-tight joint. Covers shall be of cast iron and water-tight, and no other boxes or covers shall be used except under special permission of the Engineer. The price for each cast iron outlet and pull box furnished and placed in the work shall be as herein stipulated in Schedule Items 33 and 33-A.

22.

Surfaces Restored.

Pavement to Be Restored.

Section No. 420. As soon as the structure in any excavation or trench made within a street shall be completed and the trench back-filled, a temporary pavement

shall be laid and maintained for at least four months in a condition satisfactory to the Engineer; and after which time, when the earth shall have become, in the opinion of the Engineer, sufficiently settled, the Contractor shall proceed to restore the surface to a condition similar to, and equally as good as, that existing previous to the commencement of construction.

Provisions Apply to Sewer Trenches.

Section No. 421. All the requirements as to street surface restored shall apply to the trenches for sewers, pipes or other subsurface structures along or off the line of the Railroad.

Other Sidewalks May Be Laid.

Section No. 422. Nothing contained in these specifications shall be understood or construed as prohibiting the Contractor from making any arrangement with the President of the Borough, or such other officer of the City of New York as may be in charge of street paving, to lay a better or other form of street pavement in the roadway of an intersecting street between curb lines; or to make arrangements with any property owner to lay another style of sidewalk, or other surface covering within curb lines, in place of the sidewalk or other surface covering taken up; in which case the Contractor shall file with the Commission a copy of his contract with such municipal officer or with such property owner, duly acknowledged in writing by both parties.

In case the municipal officer in charge of street paving, or any property owner desires to lay a pavement in the roadway between curb lines, or a sidewalk, or other surface covering within curb lines, affected by this contract, different from the one removed, and shall notify the Commission in writing that he has failed to make satisfactory arrangements for such work with the Contractor then the Commission, in its discretion, may direct the Contractor to finish and dress off the filling over his work to such grade as the Engineer may select, and further direct him to remove from the area to be restored all material of whatever nature not required to be relaid, and to permit another contractor to lay such roadway pavement, sidewalk or other surface covering; in which case the liability of the Contractor under this contract shall cease, as far as that part of his work is concerned, whenever the Engineer shall report to the Commission that the instructions of the Commission have been complied with, exactly the same as if the Contractor had fully completed the restoration as hereinbefore provided.

Payment for Street Surface Restored.

Section No. 423. Payment for street surface restored will be made as provided in Schedule Item 30 (a) within curb lines, and Schedule Item 30 (e) and (j) between curb lines, which prices shall include the cost of restoring all curbs, man-hole heads and covers, gratings, vault lights, etc., that formed a part of the original street surface; and of all temporary surfaces that may be necessary to maintain traffic pending the final placing of the permanent paving. The support of the street surface between the rails of the street railroad tracks will not constitute "street surface restored"; that is, the Contractor will not be paid for street surface restored in cases where the original pavement between the rails of street railroad tracks is not removed and replaced; nor will the area of the top surface of the rails or slot of the street railroads be measured and paid for as "street surface restored."

When required by the Engineer, the Contractor shall furnish and set contiguous to ventilating grating work and station vault light work new blue stone curb dressed to fit the structure. This new curb in place, including all work, labor and material incidental thereto, will be paid for at the price stipulated in Schedule Item 30 (i).

When required by the Engineer, the Contractor shall set such new curbs, or restore the old curbs contiguous to such grating and vault light work when new ones are not ordered, at a new line to be established by the President of the Borough, and such additional roadway pavement as may be required thereby will be paid for at the unit price specified in the Schedule applicable thereto.

Measurements.

Section No. 424. The measurement for payment for street surface restored will be to the ordered net lines of excavation.

Outside of Net Lines.

Section No. 425. All other street surfaces outside of the net lines of ordered excavation, either along or off the line of the Railroad, that may have become damaged, directly or indirectly, as a result of the Contractor's operations, shall be restored by the Contractor at his own cost and expense to a condition similar to and equally as good as that existing previous to the commencement of construction.

23.

Gratings, Hand-Rails, Etc.

Steel Gratings.

Section No. 426. Steel gratings shall be provided and placed over fan and other ventilating chambers, and over station approaches, at places shown on the plans, or at other places if required by the Engineer. They will be constructed as shown on the detailed plans for gratings.

At Stations.

Steel gratings also shall be provided and placed over stations as prescribed in the preceding paragraph.

Measurement and Payment.

Gratings will be measured to the lines as constructed and payment therefor will be made as herein provided in Schedule Item 28, which price shall include the grating in place in the work, all frames and framing, and all incidental work, labor and material.

Galvanized Iron Pipe Hand-rails.

Galvanized iron pipe hand-rails, of one or more horizontal rails and supported on wall brackets or on pipe posts, will be placed in the Railroad over the benches containing the ducts, or at other points where directed by the Engineer. They shall be securely fastened to the wall, bench or floor of the tunnel by means of expansion bolts, and as shown on the contract drawings. Measurements for payment will be per lineal foot of pipe rail and posts in place in the work, complete, and at the price as stipulated in Schedule Item 27.

Vault Lights.

The roofs of the stations, where under sidewalks, shall, to as great an extent as possible, consist of vault light construction. These lights shall be made with lenses, not exceeding three (3) inches in diameter, of strong glass set in cement, in frames or panels, and the joint between the glass and the cement shall be made watertight by the use of an approved elastic composition which shall also serve to protect the glass from breaking due to the contraction of the supporting slab. The panels shall be provided with non-slipping treads, buttons or other devices all of design approved by the Engineer; and shall be of sufficient strength to carry, when supported in a manner similar to that in which they are to be permanently set, an equally distributed load of at least five hundred (500) pounds per square foot without signs of failure, deformation or permanent set, when such test load is removed. The right is reserved to test at least one (1) frame or panel in every ten (10), as selected by the Engineer; and, if that fail, then the whole lot may be rejected. The vault lights must be set in place with cement, lead or other means to be absolutely waterproof; and the joint between the vault light construction and the supporting walls or beams shall be made watertight by the use of an approved elastic composition. Any tests required shall be at the Contractor's expense.

Measurement and Payment.

The area for payment for vault lights shall be to lines not exceeding one (1) foot outside of the inner faces of the supporting walls, and the price paid will be as provided in Schedule Item 29 which price shall include all work, labor and material incidental to the completed vault lights in place.

24.

Special Matters.

Open Trench Excavation Permitted.

Section No. 427. The provisions of this subdivision are for the purpose of calling attention to special matters, but except as herein expressly provided the foregoing general specifications shall remain unmodified and unaffected thereby.

Pennsylvania R. R. Retaining Wall.

The removal of concrete in the retaining wall along the westerly side of Seventh Avenue, between and including Thirty-first and Thirty-third Streets, and in the roof over the Pennsylvania R. R. tracks, shall be paid for at the price stipulated in Schedule Item 9-D, which price shall include all work, labor and material in connection with the removal and disposal thereof.

If the following buildings are underpinned, viz.: the New York State Arsenal at the northeast corner of 35th Street and Seventh Avenue, St. Chrysostom's Church at the northwest corner of 39th Street and Seventh Avenue, the Metropolitan Opera House on the east side of Seventh Avenue, between 39th Street and 40th Street, the

Broadway Theatre at the southeast corner of 41st Street and Seventh Avenue, and the Victoria Theatre at the northwest corner of 42d Street and Seventh Avenue, such underpinning will be classified under and paid for at the price provided in Schedule Item 4 (a).

If the Heidelberg Building at the southeast corner of 42d Street and Seventh Avenue is underpinned, such underpinning will be classified under, and paid for at the price provided in Schedule Item 4 (b).

Chapter IV.

SECURITY TO BE FURNISHED BY CONTRACTOR.

Contractor's Bond.

Article XXVII. Simultaneously with the execution of this contract the Contractor shall give security for the performance of his obligation by filing with the Comptroller a bond in the form annexed hereto, entitled, "Form of Contractor's Bond," executed by the Contractor and by two or more sureties to be corporations or persons approved by the Commission in the sum of two hundred thousand (\$200,000) dollars. In case any of the sureties upon the bond shall become insolvent or unable in the opinion of the Commission to pay promptly the amount of such bond to the extent to which such surety might be liable, then the Contractor within ten days after notice by the Commission to the Contractor shall, by supplemental bond or otherwise, substitute another and sufficient surety to be approved by the Commission in place of the surety so insolvent or unable. If the Contractor shall fail, within such ten days or such further time as the Commission may grant, to substitute another and sufficient surety, then the Contractor shall, for all the purposes of this contract, be deemed to be in default in the performance of his obligations hereunder and upon the said bond, and the Commission may terminate the contract or may bring any proper suit or proceeding against the Contractor and the sureties, or either of them, or may require the Comptroller or the Interborough Company or both to deduct from any moneys then due or which thereafter may become due to the Contractor under this contract the amount for which the surety insolvent or unable as aforesaid shall have justified on the bond; and the Interborough Company shall pay over any amount so deducted by it to the Comptroller and such amount shall in such case be deemed to have been paid by the Interborough Company to the Contractor upon this contract; and the moneys so deducted (including any moneys so deducted and paid by the Interborough Company to the Comptroller) shall be held by the Comptroller as collateral security for the performance of the condition of the bond.

Deposit of Cash or Securities.

*Article XXVIII. The Contractor may at his option deposit with the Comptroller in lieu of said bond or of any part thereof, an equal amount in cash or in value of securities. If securities be deposited they shall be securities of which a schedule shall be hereto annexed, entitled Schedule of Securities, and there shall be deposited with them the written approval of the Commission which it shall give when satisfied as to the character thereof. In case any of the securities so deposited shall, in the opinion of the Commission, at any time cease to be of the character of securities in which the savings banks of the State of New York are then authorized by law to invest moneys, or shall, in the opinion of the Commission, at any time become of less value than the value stated for it or them in the said schedule, then within ten days after notice to the Contractor of the objection of the Commission, the Contractor shall either substitute therefor securities which shall be approved by the Commission as of the character aforesaid and as being of at least the value of the former securities to which the Commission shall have objected as such value was originally stated in the said schedule, or shall deposit with the Comptroller in cash the amount of such value of such former securities as so originally stated. In case the Contractor shall not within such ten days or such further time, if any, as the Commission may grant substitute such new securities or make such deposit of cash, he shall, if the Commission so elect, be deemed to be in default in the performance of his obligations under this contract; and in addition to any and all other remedies against the Contractor or his sureties, the Commission may require the Comptroller or the Interborough Company or both to deduct from any moneys then due or which thereafter may become due to the Contractor under this contract, the amount of the original valuation of such securities objected to; and the Interborough Company shall pay over any amount so deducted by it to the Comptroller; and the Comptroller shall hold the moneys so deducted (including any moneys so deducted and paid by the Interborough Company to him) in lieu of such securities, as if part of the original deposit or as if deposited with him as aforesaid, and such amount shall in such case be deemed to be paid to the Contractor upon this contract. The securities so objected to shall upon such substitution of securities or deposit of cash in lieu thereof be returned to the Contractor.

City to Collect Interest.

The City shall from time to time collect all interest, dividends or other profits or income on any securities deposited by the Contractor, and shall, when and as collected, pay the same to the Contractor. If the securities are in the form of coupon bonds the coupons as they respectively become due shall be delivered to the Contractor. If the deposit be made in cash, interest shall be paid to the Contractor at the average rate of interest received by the City on its bank balances during such period. Provided, however, that the Contractor shall not be entitled to interest, dividends or other profits or income on any securities the proceeds of which shall be used or applied as hereinafter provided.

Security For.

Article XXIX. The said deposit whether in cash or securities, in the form and as the same shall at any time be, shall be security for the faithful performance by the Contractor of all the covenants, conditions and requirements specified and provided for in this contract. In case of any default on the part of the Contractor in such performance, and in the further case that the City shall for or by reason of such failure, whether by reason of employment of another contractor or contractors or otherwise, incur or become liable for expense through such default as hereinafter provided, then the Comptroller shall forthwith pay or apply to the use of the City the amount of such expense out of the said deposit in cash or securities or out of the portion of the deposit remaining at the time.

Sale of Securities.

Article XXX. The Comptroller shall, upon the requirement of the Commission, in order to make such payment or application to the use of the City, sell at public auction in The City of New York any of the securities which may then constitute part of such deposit upon notice to be published in three daily newspapers, the first publication to be not less than ten days before the sale and such publication to be made three times within such ten days. Any such sale shall be adjourned from time to time if requested by the Commission. The Comptroller shall, upon the requirement of the Commission, deduct from the proceeds of any such sale all expenses thereof and of such advertisement, and pay and apply to the use of the City so much of the residue of such proceeds as may be necessary for the purpose aforesaid. And the Contractor within ten days after notice from the Commission so to do shall (unless the time be extended by the Commission) by further deposit, according to the requirement of the Commission, of money or securities of the character aforesaid approved by the Commission restore the said deposit with the Comptroller to the full amount originally required. In addition to, or in lieu of, the sale above provided for, the Commission may, in the name of and in behalf of the City, bring any appropriate suit or proceeding in any proper court to enforce the lien and claim of the City in and upon the said deposit, whether such deposit be in money or securities.

Retention of Security.

Article XXXI. If at any time when the Contractor shall otherwise be entitled to a return of the said deposit, there shall be pending any claim for damages or loss to person or property occurring on account of the work hereunder, whether caused by the negligence, fault, or default of the Contractor, or otherwise, for which it shall be claimed that the City shall be liable, then and in that case the said deposit, or such part thereof as the Commission shall prescribe, shall, upon the requirement of the Commission, be reserved by the Comptroller for a reasonable time as security to the City against such claims. And the amount of any such damages or costs paid by the City to others or for which the City shall be liable to others, shall be deducted from the said deposit before the same shall be returned to the Contractor as hereinafter provided.

On Completion of Works.

Article XXXII. When the Contractor shall have fully completed the Works according to the terms of this contract and the Commission shall so certify, the

Comptroller shall pay and deliver to the Contractor the said deposit, or so much thereof as shall not have been reserved or used or applied for any of the purposes above mentioned.

Retained Percentages.

Article XXXIII. In addition and as further security there shall be deducted fifteen per centum (15%) of the amounts certified from time to time to be due to the Contractor until the amount so deducted and retained shall equal ten (10) per centum of the sum of the amounts resulting from the product of the estimated approximate quantities and the Unit Prices as contained in the Schedule of Unit Prices in the Contractor's proposal. Thereafter there shall be so deducted and retained for such purpose ten per centum (10%) of the amounts certified from time to time to be due to the Contractor. The Contractor may from time to time withdraw portions of the amounts so to be retained upon depositing with the Comptroller corporate stock of The City of New York of a market value equal to the amount so withdrawn from the City or the Interborough Company, as the case may be, in which event the provisions of this chapter in respect of securities shall also apply to such corporate stock. The Interborough Company shall pay to the Contractor such portion of the amounts retained by it as are to be so withdrawn from it upon the certificate of the Comptroller that such corporate stock of a market value equal to such amount to be withdrawn from it has been so deposited with him.

Chapter V.

PAYMENTS TO CONTRACTOR.

Partial Payments.

Article XXXV. The Contractor shall look to the Interborough Company for the payment of the sums earned under this contract to an amount not exceeding two million one hundred seventy-eight thousand two hundred ninety-six dollars and thirty-two cents (\$2,178,296.32), which the Interborough Company agrees to pay in the manner hereinafter provided, and to the City for all sums over and above such amount. The Interborough Company shall not be liable hereunder beyond said amount. In order to assist the Contractor to prosecute the work advantageously, the Engineer shall, from time to time, as the work progresses, but not oftener than once a month, make in writing an estimate in duplicate, such as in his opinion shall be just and fair, of the amount and value of the work done and materials incorporated in the work by the Contractor according to the terms of this contract (but it is understood that in making such estimates the Engineer shall not necessarily be governed by the unit prices contained in the Contractor's Proposal), provided, however, that estimates may at any time be withheld or reduced, if, in the opinion of the Engineer, the work is not proceeding in accordance with this contract. The first such estimate shall be of the amount and value of the work done and materials incorporated in the work since the Contractor commenced the performance of this contract on his part. Every subsequent estimate except the final estimate shall be of the amount and value of the work done and materials incorporated in the work since the last preceding estimate was made, provided, however, that no such estimate shall be required to be made when, in the judgment of the Engineer, the total value of the work done and materials incorporated in the work since the last preceding estimate amounts to less than ten thousand (\$10,000) dollars. The Engineer shall further include accepted structural iron and steel delivered on the site of the work, or on property owned or leased by the City, but not incorporated in the work, at the rate of fifty (\$50) dollars per ton of two thousand pounds. But the quantity of such structural iron and steel included in any partial estimate or estimates shall not exceed the quantity of such material, as determined by the Engineer, required for the ensuing six months, and any material included in a partial estimate which may subsequently become unsatisfactory shall be deducted from succeeding partial estimates. No materials not incorporated in the work, excepting such structural iron and steel, shall be included in partial estimates.

Not by Strict Measurement.

Article XXXVI. Such estimates shall not be required to be made by strict measurement, but they may be made by measurement or by estimation, or partly by one method and partly by the other, and it shall be sufficient if they are approximate only.

Vouchers.

Article XXXVII. Upon each such estimate being made and certified in writing to the Commission, the Commission shall forthwith prepare and certify two vouchers aggregating eighty-five (85) or ninety (90) per centum of the amount stated in such estimate or certified to be the value of the work done and materials furnished as provided in Article XXXIII. One of such vouchers shall be payable by the City and the other of such vouchers shall be payable by the Interborough Company. The voucher payable by the City shall be for an amount equal to five per centum (5%) of such estimate less five per centum (5%) of the amount to be deducted from such estimate as retained percentages as provided in Article XXXIII. The voucher payable by the Interborough Company shall be for an amount equal to ninety-five per centum (95%) of such estimate less ninety-five per centum (95%) of the amount to be deducted from such estimate as retained percentages as provided in Article XXXIII. The Commission shall thereupon transmit the voucher payable by the Interborough Company accompanied by a duplicate original of such estimate to the Interborough Company for payment and the Interborough Company within thirty (30) days after the receipt of such voucher shall pay the same to the Contractor. The voucher payable by the City shall be paid within thirty (30) days after the date of the certification of such voucher by the Commission. Provided, however, that the City may and the Interborough Company may, and upon the requirement of the Commission, shall at all times reserve and retain from said partial payments or any of them, in addition to the ten (10) or fifteen (15) per centum mentioned in Article XXXIII, any sum or all sums which by the terms hereof, or of any law of the State of New York, either the City or the Interborough Company, or both the City and the Interborough Company, may be authorized to reserve or retain.

Final Estimate.

Article XXXVIII. Whenever, in the opinion of the Engineer, the Contractor shall have completely performed this contract on his part and all work under this contract, the Engineer shall so certify, in writing and in duplicate, to the Commission, and in his certificate shall state, from actual measurements, the whole amount of work done by the Contractor, and also the value of such work under and according to the terms of this contract and also the balance of the amount remaining of the maximum amount specified in Article XXXV hereof for which the Interborough Company is liable hereunder after deducting all such sums as shall theretofore have been paid by the Interborough Company to the Contractor under the provisions of this contract (including interest, if any, paid under the provisions of Article XXXIX hereof) and any other sum or sums which the Engineer shall state in such certificate should be deducted. Upon the receipt of such certificate the Commission shall forthwith prepare and certify two final vouchers (or one, payable by the Interborough Company, in the event hereinafter specified) aggregating the amount remaining after deducting from the amount or value of the work done under and according to the terms of this contract as stated in such certificate all such sums as shall theretofore have been paid to the Contractor under any of the provisions of this contract (exclusive of interest, if any, paid under the provisions of Article XXXIX) and also any sum or all such sums of money as by the terms hereof either the City or the Interborough Company or both the City and the Interborough Company may be authorized to reserve or retain; provided, however, that nothing herein contained shall be construed to affect the right, hereby reserved, of the Commission to reject the whole or any portion of the aforesaid work should the said certificate be found or known to be inconsistent with the terms of this contract or otherwise improperly given. All prior certificates upon which partial payments may have been made, being merely estimates, shall be subject to correction in the final certificate, which final certificate may be made without notice thereof to the Contractor, or of the measurements upon which it is based. One of such final vouchers shall be payable by the City and the other shall be payable by the Interborough Company. The voucher payable by the Interborough Company shall be for the balance remaining of such maximum amount specified in Article XXXV hereof for which the Interborough Company is liable hereunder or so much thereof as may have been certified by the Engineer; provided, however, that if such balance or so much thereof as may have been certified by the Engineer shall equal or exceed the amount aforesaid remaining from the amount or value of the work done under and according to the terms of this contract as stated in such certificate after making the deductions aforesaid, then the voucher payable by the Interborough Company shall be for such remaining amount, and no voucher shall in that case be prepared or certified for payment by the City. The Commission shall transmit such voucher payable by the Interborough Company accompanied by the duplicate original of such final certificate to the Interborough Company, and the Interborough Company on or before the expiration of ninety (90) days after the receipt of

*Articles XXVIII to XXXII inclusive will form part of the contract only in case the Contractor elects to deposit cash or securities in lieu of a bond or to deposit corporate stock of The City of New York in lieu of retained percentages.

such voucher and certificate shall pay the amount due on such voucher. The voucher payable by the City shall be for the difference between the amount aforesaid remaining from the amount or value of the work done under and according to the terms of this contract as stated in such certificate after making the deductions aforesaid and the amount of the voucher payable by the Interborough Company. The City shall pay the amount due on such voucher payable by it on or before the expiration of ninety (90) days after the acceptance of the work herein agreed to be done by the Contractor and the filing of a certificate of the completion and acceptance of the work in the office of the Comptroller signed by the Engineer and the Commission.

Article XXXIX. If the payment of the amount due the Contractor on any voucher shall be delayed beyond the time stipulated in Article XXXVII in the case of partial payment, or Article XXXVIII in the case of final payment, the City shall pay if the delay shall occur in the case of a voucher payable by the City and the Interborough Company shall pay if the delay shall occur in the case of a voucher payable by the Interborough Company to the Contractor interest on such amount at the rate of four and one-half (4½) per centum per annum for the period of such delay; it being understood that such payments of interest, if any, are to be in lieu of any claim of the Contractor for alleged damages for breach of contract or otherwise in case of delayed payments. Provided, however, that the Contractor shall not be entitled to interest on any sum or sums which by the terms hereof or of any law of the State of New York either the City or the Interborough Company or both the City and the Interborough Company may be authorized to reserve or retain. The term for which interest shall be paid shall be reckoned, in the case of a partial payment by the City from the thirtieth day after the certification of such voucher by the Commission, and in the case of a partial payment by the Interborough Company from the thirtieth day after the receipt of such voucher by the Interborough Company, and in the case of a final payment by the City from the ninetieth day after the acceptance of the work by the Commission and the filing of such certificate of the completion and acceptance of the work in the office of the Comptroller and in the case of a final payment by the Interborough Company from the ninetieth day after the date of the receipt of such voucher and the final certificate by the Interborough Company, to the date of payment of the voucher. The date of payment of a voucher shall be considered the day on which the voucher is ready for payment as evidenced by the records of the Department of Finance or of the Interborough Company, as the case may be. If interest shall become due on any partial payment the amount thereof, as determined by the Commission, shall be added to a succeeding payment. If interest shall become due on a final payment it shall be paid on a supplementary voucher prepared by the Commission and forwarded to the Comptroller or the Interborough Company, as the case may be, for payment in the usual manner. But the provisions of this article as to payment by the Interborough Company of interest on any final payment due from the Interborough Company shall be subject, as between the City and the Interborough Company, to the provisions of Article XII of said contract dated March 19, 1913, to the effect that if, after the contribution of the Interborough Company shall have been exhausted, there shall accrue any valid claim against the Interborough Company in connection therewith, whether by reason of outstanding contracts or otherwise, the City shall on demand of the Interborough Company promptly settle and pay such claim or claims.

Provided, however, that the Interborough Rapid Transit Company shall not be entitled to charge to cost of construction or cost of equipment under the said contract of March 19, 1913, interest on any payment the delay in the payment of which has been occasioned otherwise than in good faith or for causes beyond the control of the Interborough Rapid Transit Company.

No Estoppel.

Article XL. The City shall not, nor shall any Department or officer thereof, be precluded or estopped by any return or certificate made or given by the Commission, any Engineer, or other officer, agent or appointee thereof under any provision of this contract, from at any time either before or after the final completion and acceptance of the work and payment therefor pursuant to any such return or certificate, showing the true and correct classification, amount, quality and character of the work done and materials furnished by the Contractor or any other person under this agreement, or from showing at any time that any such return or certificate is untrue and incorrect or improperly made in any particular, or that the work and materials, or any part thereof, do not in fact conform to the specifications; and the City shall not be precluded or estopped, notwithstanding any such return or certificate and payment in accordance therewith, from demanding and recovering from the Contractor such damages as it may sustain by reason of his failure to comply with this contract or the specifications.

No Waiver.

Article XLI. Neither the acceptance of the Commission or its Engineer, or any of its employees, nor any order, measurement or certificate by the Engineer, nor any order by the Commission for payment of money, nor any payment for, nor acceptance of the whole or any part of the work by the Engineer or the Commission, nor any extension of time, nor any possession taken by the Commission, or its employees, shall operate as a waiver of any portion of this contract or of any power herein reserved to the Commission, or any right to damages herein provided; nor shall any waiver of any breach of this contract be held to be a waiver of any other or subsequent breach.

Final Payment to Terminate Liability of City.

Article XLII. The acceptance by the Contractor of the last payment by the City aforesaid shall be and shall operate as a release to the City, from all claim and liability to the Contractor for anything done or furnished for, or relating to, the work, or for any act or neglect of the Commission, the City, the Interborough Company or of any person relating to or affecting the work, except only the claim against the City for the remainder, if any there be, of the amounts kept or retained as provided in this contract. The acceptance by the Contractor of payments by the Interborough Company, whether partial or final, aggregating the maximum amount specified in Article XXXV hereof shall be and shall operate as a release to the Interborough Company from all claim and liability to the Contractor hereunder.

Contractor's Claims for Damage—Statements of Damage to Be Filed with the Engineer.

Article XLIII. If the Contractor shall claim compensation for any damage sustained by reason of the acts of the Commission, or its agents, he shall, within ten days after the sustaining of such damage, make a written statement to the Engineer of the nature of the damage sustained. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such damage, and, unless such statement shall be made as thus required, his claim for compensation may be forfeited and invalidated, and he shall not be entitled to payment on account of any such damage.

Article XLIV. All the provisions of the Lien Law relating to liens under contracts for public improvements and the discharge and enforcement thereof shall be deemed to apply to the moneys of the Interborough Company to the extent of the amount thereof due or to become due to the Contractor under this contract as though such moneys were the moneys of the City applicable to this contract, provided, however, that the notice of such lien and all subsequent notices relating thereto shall be served upon the Interborough Company as well as upon the Comptroller and the Commission.

If at any time before or within thirty (30) days after the whole work agreed herein to be performed has been completed and accepted by the City, any person or persons claiming to have performed any labor or furnished any material toward the performance or completion of this contract shall file with the Commission and with the Comptroller (and with the Interborough Company in case a lien is sought upon the moneys of the Interborough Company as aforesaid) any such notice as is described in the Lien Law, the City or the Interborough Company or both the City and the Interborough Company may retain from any moneys which would otherwise be payable to the Contractor hereunder by the City or the Interborough Company an amount or amounts sufficient to satisfy and discharge the amount in such notice claimed to be due, together with the costs of any action or actions brought to enforce such lien created by the filing of such notice, until such lien shall be discharged as provided by law. If such lien shall be foreclosed according to law, then the City or the Interborough Company or both the City and the Interborough Company may pay the amount necessary to satisfy such lien, with interest and costs, to the person entitled thereto, and such payment shall be deemed to be payment hereunder to the Contractor by the City or the Interborough Company, or both the City and the Interborough Company, as the case may be. If the amount or amounts so retained shall not be sufficient to satisfy such lien so foreclosed with interest and costs, the deficiency may be retained by the City or the Interborough Company, or both by the City

and the Interborough Company out of any moneys thereafter becoming due to the Contractor hereunder.

Chapter VI.

CONTRACTOR'S LIABILITY FOR INJURIES TO PERSONS OR PROPERTY.

Contractor Approves Plans as Involving no Damage.

Article XLV. The Contractor expressly admits and covenants to and with the City that the plans and specifications and other provisions of this contract, if the work be done without fault or negligence on the part of the Contractor, do not involve any danger to the foundations, walls or other parts of adjacent or overhead buildings or structures or surfaces; and the Contractor will at his own expense make good any damage that shall, in the course of construction, be done to any such foundations, walls or other parts of adjacent or overhead buildings or structures or surfaces. The liability of the Contractor under this covenant is absolute and is not dependent upon any question of negligence on his part, or on the part of his agents, servants or employees, and the neglect of the Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing, shall not excuse the Contractor in case of any such damage.

It is the intention of this contract that in addition to indemnifying the City against all claims for damages, the Contractor shall also be liable to the owners of adjacent, abutting or overhead property or of buildings or structures, for all physical injuries to property or person which may be occasioned by the work of construction, even in cases where such owners, tenants or occupants have no legal claim against the City for such injuries.

Traffic to be Maintained.

Article XLVI. The Contractor shall during the performance of the work safely maintain the traffic on streets, avenues, highways, or other public places as provided in the specifications, and shall take all necessary precautions to place proper guards for the prevention of accidents, and put up and keep at night suitable and sufficient lights.

Indemnification for Accidents, Etc.

Article XLVII. The Contractor shall be solely responsible for all physical injuries to persons or property occurring on account of and during the performance of the work hereunder, and shall indemnify and save harmless the City from liability upon any and all claims for damages on account of such injuries to persons or property, and from all costs and expenses in suits which may be brought against the City for such injuries to person or property; it being distinctly understood, stipulated and agreed that the Contractor shall be solely responsible and liable for and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction, whether such damages be attributable to negligence of the Contractor or his employees or otherwise.

Money Due the Contractor May be Retained to Meet Claims.

Article XLVIII. In case any claim shall be made by any person or corporation against the Contractor or the City for loss or damage to person or property as aforesaid, the amount of such claim or so much thereof as the Commission shall deem reasonable, shall, upon the requirement and in the discretion of the Commission, be retained by the Comptroller or by the Interborough Company or both out of any moneys then due or thereafter growing due to the Contractor hereunder (in addition to the other sums hereinbefore authorized to be so retained) as security for the payment of such claim or claims. If and when the liability of the City or the Contractor on such claim or claims shall have been established by a judgment of a Court of competent jurisdiction, or shall have been admitted by the Contractor to be valid, the said claim or claims may be paid from the amount so retained and the balance, if any, paid to the Contractor. Should there be any unsatisfied claims for injuries to persons or property at the time when the final estimate for the work is made and returned, the Engineer shall have the right to retain out of said final estimate a sum in his judgment sufficient to protect the City in regard to all unsatisfied claims as aforesaid and in case the amount thus retained should be insufficient to pay the amount adjudicated to be due upon such claim the City may sue for and recover from the Contractor the amount or balance as a debt from the Contractor to the City. The Engineer may further, if in his judgment such a course is necessary, at the time of making the final estimate, and as a condition to making the same, require the Contractor to continue his bond or other security or any part thereof, for a time not exceeding the time when such claims would be legally barred as security against any claims then unsatisfied or not presented.

Examinations of Abutting Property.

Article XLIX. In order to safeguard the owners or tenants of abutting property and at the same time prevent unjust or fraudulent claims against the Contractor or the City in respect thereto, the Engineer shall cause a detailed examination of all adjacent or abutting property to be made before construction is begun. The owner or tenant of each parcel or his or their duly authorized representative, shall be invited by a notice in writing delivered to a person apparently in charge of the premises, to be present, and the Contractor, or his duly authorized representative, shall attend and with the Engineer shall make such detailed examination. A complete record of the existing conditions of each parcel shall be made in triplicate, signed by the Engineer and the Contractor, and one copy shall be delivered to the owner, one to the Contractor and one shall be retained by the Commission. At such times as the Engineer may direct, and upon the completion of the work, or upon notice to the Engineer by the owner or tenant that physical injury has occurred, further examination shall be made and the findings recorded and filed as above.

Damage to Works During Construction.

Article L. All risk of loss or damage to the Works, or to any part thereof, or to any of the materials, tools, implements or other things used in doing the work, prior to final completion, is assumed and shall be borne by the Contractor, and any such loss or damage shall be made good by the Contractor at his own cost, and the construction shall be carried forward by him in accordance with this contract, without additional cost to the City or the Interborough Company by reason of such loss or damage.

Chapter VII.

CITY TO SECURE CONTRACTOR AGAINST INJUNCTIONS, TO ACQUIRE REAL ESTATE, ETC.

City's Assurances to Contractor of Right to Construct.

Article LI. The City hereby stipulates and covenants to and with the Contractor that the City will secure and assure to the Contractor so long as the Contractor shall perform the stipulations of this contract, the right to construct the Railroad as prescribed in this contract free of all right, claim or other interference, whether by injunction, suit for damages or otherwise, on the part of any owners, abutting owner, or other person; but not including any interference, legal or otherwise, by patentees or persons claiming to be patentees of tools, methods or appliances.

Claims for Infringement of Patents.

Article LII. The Contractor shall hold himself responsible for any claims made against the City for any infringement of patents by the use of patented articles in the performance and completion of the work, or of any process connected with the work agreed to be performed under this contract, or of any materials used upon the said work; and shall save harmless and indemnify the City for all costs, expenses and damages which the City shall be obliged to pay by reason of any infringement of patents used in the performance and completion of the work.

Chapter VIII.

TIME FOR COMPLETION, DAMAGES FOR DELAY, ETC.

Commencement and Completion of Work.

Article LIV. Time is of the essence of this contract. The Contractor shall begin actual work within sixty (60) days after the delivery of this contract. The entire work covered by this contract shall be completed in all respects within thirty-six (36) months from the date of delivery of this contract.

Price to be Reduced for Delay.

Article LV. In the event of delay in completion of the Works beyond the period herein prescribed, or beyond the period to which such time may be extended by resolution of the Commission for good cause shown, the City shall—whether the working force be increased as provided in the specifications or not—be paid damages for such delay. Inasmuch as the amount of such damages will be extremely difficult to ascertain, especially in view of the fact that the Railroad herein contracted for is only a part of a complete system, the remainder of which is to be constructed under other contracts, it is hereby expressly agreed that damages shall be liquidated and paid by reducing the price to be paid the Contractor, as follows: From the amounts which shall become payable to the Contractor after the expiration of the periods above limited (but not including the retained percentages from amounts thereto certified to be due) there shall be deducted and retained the following

percentages: From the amount due for the first month after the expiration of such periods one (1) per centum thereof; from the amount due for the second month after the expiration of such periods two (2) per centum thereof; from the amount due for the third month after the expiration of such periods three (3) per centum thereof; from the amount due for the fourth month after the expiration of such periods four (4) per centum thereof; similarly from any amounts which may subsequently become due there shall be deducted a percentage, the rate of which shall equal the number of months which may have elapsed between the expiration of the periods above limited and the time when such payments shall become due. These amounts shall be deducted and retained and are hereby agreed upon and determined as the measure of liquidated damages (and not as a penalty) to the City. But in case the Contractor shall be delayed by reason of any labor strike not caused or instituted or provoked by the Contractor, or by any subcontractor, agent or representative of the Contractor (which fact the Contractor shall prove to the satisfaction of the Commission), or in case the Contractor shall be delayed by any injunction or by any interference of public authority, and in case the Contractor cannot, notwithstanding such injunction or interference, with reasonable diligence make up for the delay so occasioned by speedier work when the Contractor shall not be so interfered with, then the said date for completion shall be extended by resolution of the Commission to a date later than the expiration of the said period by the amount of the time of such delay.

Commission May Intervene in Case of Injunction.

Article LVI. But no injunction, strike or interference of public authority shall be ground for such extension except if and from the time when the Contractor shall give the Commission notice of the injunction or other cause of delay, with copies of the injunction or other orders and of the papers upon which the same shall have been granted. The Commission and the City or either shall be accorded the right to intervene or become a party to any suit or proceeding in which any such injunction shall be obtained, and to move to dissolve the same or otherwise, as the Commission or City may deem proper. If necessary the Corporation Counsel or the Counsel to the Commission or both shall be authorized by the Contractor to appear, for that purpose, as counsel or attorneys for him.

In Case of Variation of Quantities.

Article LVII. The time stipulated within which to complete the Works is based upon the quantities of the various items entering into the work as stated in the form of proposal, which are given solely for the purpose of classifying bids. In case these quantities are exceeded or diminished then an extension or diminution of the term of this contract shall be made. It is, however, understood and agreed that in case an increase in any one item is balanced or offset by diminution of other items, no change in the term shall be made, and in any event the Engineer shall determine the amount of extension or diminution of time in respect of the relative increase or reduction in the quantities involved in the final completion.

Suspension of Work and Additional Time for Performance.

Article LVIII. The Commission reserves the right of temporarily suspending the execution of the whole or any part of the work herein contracted to be done, if it shall deem it for the interest of the City so to do, without compensation to the Contractor for such suspension, other than extending the time for completing the work as much as it may have been delayed by such suspension.

Extensions Not Cumulative.

Article LX. It is expressly understood, however, that the periods of extension referred to herein shall not be cumulative, but only the single period of delay giving the greatest extension shall be taken into consideration.

Permission to Complete Contract Not a Waiver.

Article LXI. The permitting of the Contractor to go on and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, or the making of partial payments to the Contractor after any such periods, shall in no wise operate as a waiver on the part of the City or the Interborough Company of any of its rights under this contract.

Chapter IX.

REMEDIES IN CASE OF CONTRACTOR'S DEFAULT.

In Case of Default.

Article LXII. If the work to be done under this contract shall be abandoned by the Contractor, or if this contract shall be assigned, or the work sublet by him, otherwise than as herein specified, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Commission that the performance of this contract is unnecessarily or unreasonably delayed, or that the Contractor is wilfully violating any of the provisions or covenants of this contract, or of the specifications, or is executing the same in bad faith or not in accordance with the terms thereof, or if the work be not fully completed within the time named in this contract for its completion, or within the time to which the completion of the contract may be extended by the Commission, the Commission

May Take Charge of Work.

(1) Notify the Contractor, by a written notice, to discontinue all work, or any part thereof, under this contract, and thereupon the Contractor shall discontinue the work, or such part thereof, and the Commission shall thereupon have the right to contract for the completion of the Works in the manner prescribed by law, or to place such and so many persons as it may deem advisable, by contract or otherwise, to work, and complete the work herein described, or such part thereof, to take possession of and use any or all of the materials, plant, tools, equipment, supplies and property of every kind provided by the Contractor for the purpose of his work, and to procure other materials for the completion of the same, and to charge the expense of said labor and materials to the Contractor. The expense so charged shall be deducted and paid by the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor under and by virtue of this contract, or any part thereof; and the Interborough Company shall, upon the requirement of the Commission, deduct and pay to the City out of such moneys as may be due or may at any time thereafter grow due to the Contractor from it under and by virtue of this contract, the amount of such expense or such portion thereof as the Commission shall require, to be applied by the City to the payment of such expense, and such moneys so deducted and paid to the City shall be deemed to have been paid to the Contractor by the Interborough Company upon this contract. And in case such expense shall exceed the amount which would have been payable under the contract if the same had been completed by the Contractor, he shall pay the amount of such excess to the City; and in case such expense shall be less than the amount which would have been payable under this contract if the same had been completed by the Contractor, he shall forfeit all claim to the difference; and when any particular part of the work is being carried on by the Commission, by contract or otherwise, under the provisions of this article of the contract, the Contractor shall continue the remainder of the work in conformity with the terms of this contract, and in such manner as in nowise to hinder or interfere with the persons or workmen employed, as above provided, by the Commission, by contract or otherwise, to do any part of the work or to complete the same under the provisions of this article of the contract. And

Or Proceed Upon Bond.

(2) The City may also proceed as to the Commission shall seem proper upon the bond or other security in its possession. And

Or May Bring Suit.

(3) The City may also bring any suit or proceeding for specific performance or for injunction or to recover damages or to obtain any relief or for any purpose proper under this contract.

Chapter X.

MISCELLANEOUS PROVISIONS.

Changes in the Contract.

Article LXIII. No correction or change in this contract shall be made except by written instrument duly authorized by the Commission and consented to by the Contractor and by the sureties upon his bond, and if any such correction or change affects the obligations of the Interborough Company hereunder, by the Interborough Company; but this provision shall not limit or affect the right to prescribe variations whether of construction or location of route as in this contract elsewhere provided.

Members of Commission or of Interborough Company Not Liable.

Article LXIV. No claim shall be made by the Contractor against any member of the Commission or any officer or director of the Interborough Company personally by reason of this contract or of any of its articles or provisions.

Contractor Not to Assign, Sublet, etc.

Article LXV. The Contractor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest in or to the same or any part thereof without the previous consent in writing of the Commission, and he shall

not assign by power of attorney or otherwise any of the moneys to become due and payable under this contract unless by and with the like consent. If the Contractor shall without such previous written consent assign, transfer, convey, sublet or otherwise dispose of this contract or of his right, title or interest therein or any of the moneys to become due under this contract, to any other person, company or corporation, this contract may at the option of the Commission be revoked and annulled and the City and the Interborough Company shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor and to his assignee or transferee; and no right under this contract or to any money to become due hereunder shall be asserted against the City or the Interborough Company in law or in equity by reason of any so-called assignment of this contract or any part thereof or of any moneys to grow due hereunder unless authorized as aforesaid by the written consent of the Commission; provided that nothing herein contained shall be construed to hinder, prevent or affect an assignment by the Contractor for the benefit of his creditors made pursuant to the statutes of the State of New York.

Provisions in Case Commission Ceases.

Article LXVI. In case the Commission shall cease to exist the Legislature may provide what public officer or officers shall exercise the powers and duties of the Commission under and by virtue of this contract; and in default of such provision, such powers and duties shall be deemed to be vested in the Mayor of the City. In case any officer or officers other than the Commission shall hereafter have the powers of the Commission or any of them, then the provisions of this contract shall be applicable to such officer or officers to the extent to which the powers of the Commission shall appertain to such officer or officers, and any official act or determination of such officer or officers or of this Commission shall be sufficient hereunder, anything herein to the contrary notwithstanding, if the same be done or had by lawful vote or resolution or in such manner as the Legislature may from time to time prescribe.

Labor Law.

Article LXVII. The Contractor agrees to comply with the provisions of the Labor Law, including section 3 thereof as re-enacted by chapter 36 of the Laws of 1909. The Contractor further agrees and stipulates that no laborer, workman or mechanic in the employ of the Contractor, sub-contractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be permitted or required to work more than eight hours in any one calendar day, except in cases of extraordinary emergency caused by fire, flood or danger to life or property; and further that the wages to be paid for a legal day's work as hereinbefore defined to all classes of such laborers, workmen or mechanics upon the work contemplated by this contract or upon any material to be used upon or in connection therewith, shall not be less than the prevailing rate for a day's work in the same trade or occupation in the Borough of the City, where the work hereby contemplated, about or in connection with which such labor is performed, is in its final or completed form to be situated, erected or used; and that each such laborer, workman or mechanic employed by the Contractor or by any sub-contractor or other person on, about or upon the work contemplated by this contract, shall receive such wages herein provided for. This contract shall be void and of no effect, unless the Contractor shall comply with the provisions of this section. In obedience to the requirements of section 14 of the Labor Law it is further provided that if the provisions of the said section 14 are not complied with, this contract shall be void.

All Necessary Legal Provisions Deemed Inserted Herein.

Article LXVIII. It is the intent and understanding of the parties to this agreement that each and every provision of law required to be inserted in this contract should be and is inserted herein. Furthermore, it is hereby stipulated that every such provision is to be deemed to be inserted herein; and if, through mistake or otherwise, any such provision is not inserted or is not inserted in correct form, then the contract shall forthwith, upon the application of either party, be amended by such insertion so as to comply strictly with the law, and without prejudice to the rights of either party hereunder.

Provision in Case of Unlawful Provision.

Article LXIX. If this contract contains any unlawful provision not an essential part of the general structure of the contract and which shall not appear to have been a controlling or very material inducement to the making thereof the same shall be deemed of no effect, and shall upon the application of either party, be struck from the contract without affecting the binding force of the contract as it shall remain after omitting such provision.

Interborough Company.

Article LXX. The Interborough Company is a party to this contract solely for the purpose of paying out its contribution toward the cost of construction of the Railroad as provided in the said contract dated March 19, 1913, and the fact that it is a party to this contract with the City and the Contractor shall not deprive it of any rights, claims or remedies which as owner or lessee of any elevated railroad or abutting property or otherwise, it might otherwise possess or assert against the City or the Contractor.

Testimonium.

In Witness Whereof, this contract has been executed for THE CITY OF NEW YORK by the PUBLIC SERVICE COMMISSION for the First District under and by resolution duly adopted by the Commission and the seal of the Commission has been hereto affixed and attested by its Secretary and these presents have been signed by its Chairman; and the Interborough Rapid Transit Company has caused its corporate seal to be hereto affixed and attested by its Secretary and these presents to be signed by its President; and the Contractor has * [hereunto set] hand and seal [caused] corporate seal to be hereto affixed and these presents to be executed by [proper officers] the day and year first above written.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

By Chairman.

Attest: Secretary.

INTERBOROUGH RAPID TRANSIT COMPANY,

By President.

Attest: Secretary.

State of New York, County of New York, ss.:

On the day of 1913, before me personally appeared Edward E. McCall and Travis H. Whitney, to me known and known to me to be the said Edward E. McCall, the chairman, and the said Travis H. Whitney, the secretary of the Public Service Commission for the First District; and the said Edward E. McCall and Travis H. Whitney being by me duly sworn, did depose and say, each for himself and not for the other, the said Edward E. McCall, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the chairman of the said Commission and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said Travis H. Whitney, that he resides in the Borough of Brooklyn, in the County of Kings, City and State of New York, that he is the secretary of the said Commission and that he subscribed his name thereto by like authority; and both the said Edward E. McCall and Travis H. Whitney that they know the seal of the said Commission and that the same was affixed to the foregoing instrument by the authority of the said Commission and of a resolution duly adopted by the same.

The words "Provided, however, that the Interborough Rapid Transit Company shall not be entitled to charge to cost of construction or cost of equipment under the said contract of March 19, 1913, interest on any payment the delay in the payment of which has been occasioned otherwise than in good faith or for causes beyond the control of the Interborough Rapid Transit Company," added at the end of Article XXXIX before execution.

Acknowledgment of Interborough R. T. Co.

State of New York, County of New York, ss.:

On the day of 1913, before me personally appeared Theodore P. Shonts and H. M. Fisher, to me known and known to me to be the said Theodore P. Shonts, the President, and the said H. M. Fisher, the Secretary, of Interborough Rapid Transit Company, the corporation named in the foregoing contract, and they being by me duly sworn, did depose and say, each for himself and not one for the other, the said Theodore P. Shonts, that he resides in the Borough of Manhattan, in the City, County and State of New York, that he is the President of the said Interborough Rapid Transit Company, and that he subscribed his name to the foregoing contract by virtue of the authority thereof; and the said H. M. Fisher, that he resides in Plainfield, in the State of New Jersey, that he is the Secretary of the said Inter-

*If the contractor is an individual, use the words enclosed in the first bracket; if a corporation, use the words enclosed in the second bracket.

borough Rapid Transit Company, and that he subscribed his name thereto by like authority; and both the said Theodore P. Shonts and H. M. Fisher that they know the seal of the said Interborough Rapid Transit Company, and that the same was affixed to the foregoing contract by the authority of the Board of Directors of Interborough Rapid Transit Company and of resolution duly adopted by the same.

The words "Provided, however, that the Interborough Rapid Transit Company shall not be entitled to charge to cost of construction or cost of equipment under the said contract of March 19, 1913, interest on any payment the delay in the payment of which has been occasioned otherwise than in good faith or for causes beyond the control of the Interborough Rapid Transit Company," added at the end of Article XXXIX before execution.

Acknowledgments for Contractor.

State of New York, County of New York, ss.:
On this day of , 1913, before me personally came to me known and known to me to be the individual described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same.

State of New York, County of New York, ss.:
On this day of , 1913, before me personally appeared to me known, who, being by me first duly sworn, did depose and say: That he resides in , in the State of ; that he is of , the corporation described in and which executed the foregoing instrument; that he knows the corporate seal of said company; that one of the seals affixed to said contract is such corporate seal, and that it was affixed thereto by order of the Board of Directors of said company, and that he signed his name thereto by like authority.

The words "Provided, however, that the Interborough Rapid Transit Company shall not be entitled to charge to cost of construction or cost of equipment under the said contract of March 19, 1913, interest on any payment the delay in the payment of which has been occasioned otherwise than in good faith or for causes beyond the control of the Interborough Rapid Transit Company," added at the end of Article XXXIX before execution.

FORM OF CONTRACTOR'S BOND, CONSTRUCTION OF A PART OF PROPOSED RAPID TRANSIT RAILROAD ROUTES Nos. 4 AND 38, SECTION NO. 6.

Know all Men by these Presents, That

of hereinafter called the Contractor, and

and hereinafter called the Sureties are held and firmly bound unto The City of New York, hereinafter called the City, in the sum of two hundred thousand (\$200,000) dollars lawful money of the United States of America, to be paid to the City, for which payment well and truly to be made the Contractor and the Sureties do hereby bind themselves and their, and each of their, executors, administrators, successors and assigns firmly by these presents, as follows: The Contractor to be so held and bound for the full amount of the said sum of two hundred thousand dollars (\$200,000) and each of the said Sureties to be so held and bound only for a portion of said sum as follows:

The said

for the sum of dollars (\$); the said

for the sum of dollars (\$); the said

for the sum of dollars (\$); the said

for the sum of dollars (\$).

In witness whereof, the Contractor and the Sureties have hereunto set their hands and seals and such of them as are corporations have caused their respective seals to be hereto affixed and these presents to be attested by the proper officers, this day of , 1913.

Whereas, The City by the Public Service Commission for the First District (hereinafter called the Commission) is about to enter into a contract with the Contractor bearing even date herewith for the construction of that portion of a Rapid Transit Railroad known as Section 6 of Routes 4 & 38, extending under Seventh Avenue from West Thirtieth Street to West Forty-third Street, in the Borough of Manhattan in the City of New York, more particularly described in the said contract; and

Whereas, The City is about to enter into such contract with the Contractor upon the condition, and not otherwise, that this bond shall be given to the City, and upon the faith thereof.

Now, therefore, the condition of the foregoing obligation is such that if the Contractor shall fully perform the said contract, then this obligation shall be null and void, but else it shall remain in full force and virtue.

It is expressly agreed between the City and the Sureties (and it is only upon such agreement that the City accepts this Bond) that the Sureties will and do waive any and every notice of default on the part of the Contractor; that they will and do permit the City to extend the time of the Contractor to do any act; that no omission on the part of the City to give any notice of extension of time granted by or on behalf of the City shall be availed of by the Sureties or any of them as a defense upon this Bond; that the Sureties shall not set up or have any defense upon this Bond by reason of any alteration of the said contract unless such alteration shall be represented by a formal written instrument duly executed between the City and the Contractor which shall have been duly authorized by a vote of the Commission; and that in case of such alteration, however made, the same shall be a defense to the Sureties only to the extent of the actual injury or damage caused to the Sureties by said alteration.*

FORM OF CONTRACTOR'S PROPOSAL FOR CONSTRUCTION OF A PART OF THE SEVENTH AVENUE-LEXINGTON AVENUE RAPID TRANSIT RAILROAD, ROUTES Nos. 4 AND 38, SECTION NO. 6.

Contractor's Proposal for the Construction of a Portion of the Seventh Avenue-Lexington Avenue Rapid Transit Railroad.

Routes Nos. 4 and 38, Section No. 6.

Notice—Sums of money must be written in words and also in figures, except in the schedules. There must remain annexed hereto:

Copy of Invitation to Contractors

Copy of Form of Contract

Copy of Form of Bond

To the Public Service Commission for the First District:

1. The undersigned, do hereby, in pursuance of the Invitation to Contractors, a copy of which is attached hereto, propose according to the terms thereof to enter into a contract in the form annexed hereto with The City of New York and the Interborough Rapid Transit Company for the construction of Section No. 6 of Routes Nos. 4 and 38, and to furnish all necessary labor, materials, machinery, tools, apparatus and other means of construction and perform all the work mentioned in the said contract at the unit prices for the several items as given in the following Schedule of Unit Prices, or as otherwise provided in the form of contract. It is understood that the quantities of various items specified in the following schedule are given as a basis for the uniform comparison of bids and are not in any way guaranteed or represented as correct or intended to be relied on, and they shall not be taken as final and shall form no basis for any claim in case they do not correspond with the final measurements or quantities.

*The execution of the bond must be duly proved before delivery in the form essential to proof to entitle a deed to record in the State of New York. Full affidavits of justification of sureties must be added.

†The bidder's name must be inserted here. If the bid is submitted by a corporation, the full legal title must be given here and a certified copy of the certificate of incorporation must be submitted, together with an affidavit showing the amount of stock paid in in cash and the names and addresses of the directors and principal officers. If it be a foreign corporation, proof must also be submitted of its authority to transact business in the State of New York. In case the bidder has already filed such papers with the Commission in connection with another bid he may so state and omit such papers in this instance. If the bid is submitted by a firm, the above blank must be filled in in the following form, "the firm of A. B. & Co., composed of A., B., C., D., etc." (giving the names of all the partners).

ties. It is further understood that the Commission reserves the right to increase or diminish or to omit entirely any of the quantities of items as therein stated:

Schedule of Unit Prices.

Item.	Classification.	Unit Price.	Estimated not to be used by Approximate Quantities.	This column used by Bidder. Amount.
1	For earth excavation, above mean high water (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yd.....	106,600		
2a	For earth excavation, both above and below mean high water, for sewers and pipes, including the disposal of it, etc., per cubic yd.....	4,950		
3	For rock excavation (except excavation for sewers and pipes), including the disposal of it, etc., per cubic yd.....	155,430		
3a	For rock excavation for sewers and pipes, including the disposal of it, etc., per cubic yd.....	4,390		
4	For underpinning buildings, including all incidental work, labor and material, per lineal front ft. of building underpinned, as follows:			
	(a) For buildings less than seven stories in height, per front ft.....	220		
	(b) For buildings from seven to twelve stories, inclusive, in height, per front ft.	96		
4e	For maintaining, protecting and securing buildings, including all incidental work, labor and material, per lineal front ft. of building maintained, protected and secured.....	572		
6	For concrete masonry in place, per cubic yd.....	29,130		
7	For protective concrete masonry in place outside of waterproofing, per cubic yd.....	4,250		
8	For rubble stone masonry in place, per cubic yd.....	2,640		
8a	For dry rubble masonry, in place, per cubic yd.....	50		
9	For brick masonry, in place, per cubic yd.....	100		
9d	For the removal and disposal of old masonry of whatever kind as required by Section No. 427 of the Specifications, per cubic yard.....	630		
10	For hollow terra cotta brick or tile masonry of any thickness, in place, per cubic yard.....	50		
11	For grout of Portland cement, per barrel of Portland cement used.....	1,000		
12	For timber piles, in place, and prepared, per lineal ft.	1,000		
13	For timber, foundations, placed and fastened, per thousand ft. B. M.	2		
14	For broken stone or gravel, in place, other than that used in concrete, per cubic yard.....	100		
15	For waterproofing, treated woven fabric (except dry ply) laid with pitch or asphaltum, in place, as follows:			
	(a) For 1-ply, per square yd.....	17,070		
	(b) For 2-ply, per square yd.....	100		
	(c) For 3-ply, per square yd.....	23,780		
	(d) For 4-ply, per square yd.....	100		
	(e) For 5-ply, per square yd.....	100		
	(f) For 6-ply, per square yd.....	100		
	(g) For dry-ply, per square yard.....	100		
16	For waterproofing, brick laid in asphalt mastic, in place, per cubic yd.....	1,470		
17	For vitrified or cast-iron drain pipe, in place, as follows:			
	(a) For 12-inch vitrified pipe, per lineal ft.	100		
	(b) For 10-inch vitrified pipe, per lineal ft.	100		
	(c) For 8-inch vitrified pipe, per lineal ft.	1,300		
	(d) For 6-inch vitrified pipe, per lineal ft.	100		
	(e) For 4-inch vitrified pipe, per lineal ft.	100		
	(f) For 6-inch cast-iron pipe, per lineal ft.	100		
	(g) For 4-inch cast-iron pipe, per lineal ft.	2,050		
17a	For cast-iron pipe and fittings, including specials, "extra heavy," in place as follows:			
	(a) For 3-inch, per lineal ft.	50		
	(b) For 4-inch, per lineal ft.	210		
	(c) For 6-inch, per lineal ft.	165		
	(d) For 8-inch, per lineal ft.	30		
18	For tunnel ducts, in place, as required by Section No. 407 of the specifications, per duct ft.	265,740		
19	For riveted steel, painted and erected, per ton of two thousand pounds.....	2,080		
20	For steel beams and shapes with connections, painted and erected, per ton of two thousand pounds.....	2,680		
21	For steel rods and bars built in concrete, per ton of two thousand pounds.....	125		
25	For miscellaneous iron castings, other than tunnel lining, such as manhole heads and covers, gratings, etc.; but not including castings for sewer work or pipes; in place, per ton of two thousand pounds.....	34		
25c	For miscellaneous iron furnishings for sewer manholes and basins, both cast and wrought, such as manhole and basin heads, covers, inlet gratings or bars, manhole steps, etc., but not including pipe, in place, per ton of two thousand pounds.....	5		
26	For special wire forms, in place, per pound.....	2,530		
27	For one and one-half inch (1½-in.) galvanized iron pipe hand rail, in place, including expansion bolts, etc., per lineal ft.	3,530		
28	For steel gratings for ventilation, in place, including frames, etc., per square ft.	12,500		
29	For vault lights, in place, per square ft.	7,560		
30	For street surface restored, as follows:			
	(a) Within curb lines, including curbs and all structures and growths therein or thereon, per square yd.....	8,010		

Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This column not to be used by Bidder. Amount.	Item.	Classification.	Unit Price.	Estimated Approximate Quantities.	This column not to be used by Bidder. Amount.
	(e) For repavement of roadways between curb lines with Asphalt pavement, per square yd.		25,270	.....	100A	For new standard weight gas pipes, true wrought-iron, threads and couplings included, actually used as measured in place in the work, as follows:			
	(i) For new bluestone curb, in place, including all incidental work, labor and material, per lineal ft.		3,040	.....	(b) For 6-in. gas pipe, per lineal ft.		100	.....
	(j) For repavement of roadways between curb lines with Wooden Block pavement, per square yd.		880	.....	(c) For 8-in. gas pipe, per lineal ft.		100	.....
32	For wrought-iron electric conduits, in place in stations, as follows:				(d) For 10-in. gas pipe, per lineal ft.		100	.....
	(a) For three-fourths inch (3/4-in.) wrought-iron, per lineal ft.		19,750	.....	101	For new cast-iron hub and spigot pipe, special castings, actually used, as measured in place in the work, per ton of two thousand pounds		60	.....
	(b) For one and one-half inch (1 1/2 in.) wrought-iron, per lineal ft.		1,500	.....	101A	For new malleable iron fittings for new wrought-iron gas pipe, actually used as measured in place in the work, per lb.		2,000	.....
	(c) For two inch (2-in.) wrought-iron, per lineal ft.		500	.....	<i>High Pressure Fire System Pipes, Standard Spigots and Grooves.</i>				
	(d) For one inch (1-in.) wrought-iron, per lineal ft.		800	.....	102	For high pressure fire system pipe, in place as follows:			
33	For cast-iron outlet boxes in place, in stations, each		1,300	.....	103	For 8-inch high pressure fire system water pipe, per lineal ft.		100	.....
33a	For cast-iron pull boxes in place, in stations, each		20	.....	106	For 12-inch high pressure fire system water pipe, per lineal ft.		100	.....
34	For cast-iron pipe and fittings, including specials ("extra heavy"), in place, in stations, as follows:				106	For 24-inch high pressure fire system water pipe, per lineal ft.		300	.....
	(a) For six inch (6-in.), per lineal ft.		360	.....	<i>New Cast-Iron Spigot and Groove Pipe for High Pressure Fire System.</i>				
	(b) For three inch (3-in.), per lineal ft.		720	.....	107	For new cast-iron spigot and groove straight pipe actually used, as measured in place in the work, per ton of two thousand pounds		10	.....
	SEWERS.								
	<i>Vitrified and Cast-Iron Pipe.</i>								
37	For 12 inch vitrified pipe sewer, per lineal ft.		1,700	.....	108	For new cast-iron spigot and groove pipe, special castings, actually used, as measured in place in the work, per ton of two thousand pounds		20	.....
38	For 15 inch vitrified pipe sewer, per lineal ft.		500	.....	<i>Air Pipes.</i>				
39	For 18 inch vitrified pipe sewer, per lineal ft.		100	.....	122A	For air pipes in place, as follows:			
40	For 20 inch vitrified pipe sewer, per lineal ft.		250	.....	122A	For 12-inch air pipe, in place, per lineal ft.		100	.....
40a	For 22 inch vitrified pipe sewer, per lineal ft.		100	.....	124A	For new 12-inch air pipe actually used, as measured in place in the work, per lineal ft.		100	.....
41	For 24-inch vitrified pipe sewer, per lineal ft.		250	.....	<i>New Air Pipe.</i>				
42	For cast-iron sewer pipe (straight pipe) in place in the work, per ton of two thousand pounds		320	.....	125	For 8-inch mail tube, in place, per lineal ft.		2,500	.....
43	For cast-iron sewer pipe (special castings) in place in the work, per ton of two thousand pounds		100	.....	126	For new 8-inch mail tube actually used, as measured in place in the work, per ton of two thousand pounds		5	.....
45	For 3 ft. 6 in. x 2 ft. 4 in., per lineal ft.		700	.....	<i>Mail Tubes.</i>				
	<i>Egg-Shaped Brick or Concrete Sewers.</i>								
53	For 4 ft. 0 in., per lineal ft.		280	.....	127	For electric ducts and conduits in place, as provided in Section No. 62 of the Specifications, per duct ft.		43,000	.....
54a	For 4 ft. 6 in., per lineal ft.		230	.....	127A	For wrought-iron pipe used as electric ducts and conduits, in place, as provided in Section No. 62 of the specifications, as follows:			
56a	For 5 ft. 3 in., per lineal ft.		350	.....	(b) For 3-inch wrought-iron pipe, per lineal ft.		10,000	.....
	<i>Surface and Subsurface Structures.</i>				(d) For 4-inch wrought-iron pipe, per lineal ft.		100	.....
75	For street surface railroads, including the support, reconstruction, rebuilding, etc., where necessary (but not including permanent masonry supports, if required and added, and not including additional vaults, if required and constructed, in excess of the number existing), as follows:				(f) For 2-inch Edison Conduit, per lineal ft.		925	.....
	(a) For electric (underground trolley) railroads, per lineal foot of single track		7,190	.....	(g) For 2 1/2-inch Edison Conduit, per lineal ft.		375	.....
	<i>PIPES IN STREETS.</i>								
	<i>For Work and Material as Called for by the Specifications—Water and Gas Pipes, Water Pipes.</i>								
79	For water pipes, in place, as follows:				(2) If this proposal is accepted, the undersigned will within ten days after delivery of notice, execute and deliver the contract with The City of New York and Interborough Rapid Transit Company in the form aforesaid and at the same time will deliver to the Comptroller of The City of New York pursuant to the terms of the said contract, a bond in the sum of two hundred thousand dollars (\$200,000) in the form hereto annexed with the following named Sureties, viz.:				
	For 6-inch water pipe, per lineal ft.		950	.....	(3) The Commission may cause any notice intended for the undersigned to be delivered at Room No. on the floor of the building No.				
82	For 12-inch water pipe, per lineal ft.		955	.....	in the Borough of in the City of New York. Such delivery shall be sufficient notice to the undersigned.				
84	For 20-inch water pipe, per lineal ft.		2,220	.....	(4) At the time of delivering this proposal to the Commission the undersigned will separately deliver a certified check payable to the order of the Comptroller of The City of New York for the sum of fifteen thousand dollars (\$15,000). If the Commission shall notify the undersigned that the Contractor's Proposal is accepted and that the proposed contract is consented to by the Board of Estimate and Apportionment, then if the undersigned shall fail within ten days thereafter or within such longer period as may be prescribed by the Commission to procure the above described bond to be duly executed and delivered or make the said deposit in cash or securities; or if the undersigned shall fail to procure the contract to be duly executed and delivered as aforesaid, then the Invitation to Contractors and this Contractor's Proposal shall constitute a contract binding the undersigned to pay to the City the damages by it sustained by reason of such failure of the undersigned, as provided in said Invitation to Contractors. And the undersigned hereby assigns to the City the said sum so specially deposited by the delivery of such certified check, subject only to the condition that if this Proposal shall not be accepted, or, if it shall be accepted and the undersigned shall within ten days after notice as aforesaid or any longer period prescribed by the Commission, execute the said contract and procure the said bond to be duly executed and delivered or make the said deposit in cash or securities, then the amount of the said check so specially deposited shall be returned to the undersigned.				
88	For 48-inch water pipe, per lineal ft.		500	.....	(5) A notice of acceptance of this Proposal by the Commission addressed to the undersigned as aforesaid shall forthwith, at the option of the Commission, operate as against the undersigned as a complete making of a contract according to the form thereof as aforesaid, with the blanks therein contained filled in according to this Proposal.				
	<i>Gas Pipes.</i>				(6) There are no persons interested with the undersigned in this Proposal except:				
90	For 4-inch gas pipe, per lineal ft.		350	.....	(7) This Proposal is made without any connection with any other person making a proposal or bid for the same purpose, and is in all respects fair and without collusion or fraud. No member of the Board of Aldermen, head of Department, Chief of bureau, deputy thereof, or clerk therein, or other officer of The City of New York, or any member or employee of the Public Service Commission for the First District is interested directly or indirectly, as contracting party, partner, stockholder, or otherwise in, or in the performance of, the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof.				
91	For 6-inch gas pipe, per lineal ft.		2,140	.....	Dated 1913.				
92	For 8-inch gas pipe, per lineal ft.		775	.....	*The bidder may, under the Rapid Transit Act, deposit cash or approved securities, in lieu of a bond; and the bidder, if desirous of so doing, may so state here, and strike out the words in italics.				
93	For 10-inch gas pipe, per lineal ft.		115	.....	†Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."				
94	For 12-inch gas pipe, per lineal ft.		125	.....				
95	For 16-inch gas pipe, per lineal ft.		600	.....				
96	For 20-inch gas pipe, per lineal ft.		1,425	.....				
99a	For wrought-iron by-passing pipes upon or below the street surface, in place, as follows:								
	(a) For 6-inch by-passing pipe, per lineal ft.		25	.....				
	(b) For 8-inch by-passing pipe, per lineal ft.		9,200	.....				
	(d) For 12-inch by-passing pipe, per lineal ft.		3,200	.....				
	(e) For 16-inch by-passing pipe, per lineal ft.		195	.....				
	(f) For 20-inch by-passing pipe, per lineal ft.		500	.....				
99b	For wrought-iron by-passing pipes, above the street surface, on trestle, in place, as follows:								
	(b) For 16-inch by-passing pipe, per lineal ft.		850	.....				
	(c) For 20-inch by-passing pipe, per lineal ft.		2,950	.....				
	(h) For trestle to support by-passing pipes, per lineal ft.		2,900	.....				
99c	For wrought-iron gas pipes, in place, as follows:								
	(b) For 6-in. gas pipe, per lineal ft.		225	.....				
	(c) For 8-in. gas pipe, per lineal ft.		75	.....				
	(d) For 10-in. gas pipe, per lineal ft.		125	.....				
100	New Water and Gas Pipe.								
	For new cast-iron hub and spigot straight pipe actually used as measured in place in the work, per ton of two thousand pounds		70	.....				

*The bidder may, under the Rapid Transit Act, deposit cash or approved securities, in lieu of a bond; and the bidder, if desirous of so doing, may so state here, and strike out the words in italics.
†Here insert the names and addresses of all persons interested with the bidder. If there are no such persons strike out the word "except."

Schedule of Securities.

(Note—If the bidder desires not to give a bond, but to deposit securities in lieu thereof, a description of the securities to be deposited for that purpose must be inserted below.)

All securities when delivered must be payable to, or run in favor of, or be transferred to, the Comptroller of The City of New York.)

Affidavit of Verification.

State of New York, City and County of New York, ss.: _____, being duly sworn, says: I am _____, the proposing Contractor above named. I have read the foregoing proposal. The same is in all respects true. Sworn to before me this _____ day of _____, 1913.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 14, 1914.

To the Board of Estimate and Apportionment:

Gentlemen:—On January 5, 1914, the Public Service Commission for the First District transmitted for consent of the Board of Estimate and Apportionment a proposed contract to be entered into between The City of New York, the Interborough Rapid Transit Company and the Rapid Transit Subway Construction Company for the construction of Section 6 of Routes Nos. 4 and 38, being that portion of the proposed Seventh Avenue-Lexington Avenue Rapid Transit Railroad which begins at a point under 7th avenue in the Borough of Manhattan about 75 feet north of the northerly building line of West 30th street and extends thence northerly under 7th avenue to a point about 100 feet south of the southerly building line of West 43d street, at an estimated cost to the City of \$114,647.18.

The Commission also requested your Board to consent to the award of the contract submitted to prescribe a limit of \$114,647.18 to the amount of bonds available to meet the requirements of the City's obligations thereunder and to direct the Comptroller to issue bonds to the necessary amount, the same to be charged against the appropriation of \$28,200,000 made by the Board on March 18, 1913, for the purpose of carrying out the terms of Contract No. 3.

This contract has been awarded the low bidder at an estimated amount of \$2,292,943.50. It provides that the Interborough Rapid Transit Company shall pay 95 per cent. of the value of the estimates rendered to an amount not exceeding \$2,178,296.32 as the lessee's further contribution toward the construction costs of \$58,000,000 provided for in Contract No. 3.

I recommend the adoption of the attached resolution consenting to the award of the contract, limiting the amount of bonds available and authorizing and directing the Comptroller to issue the necessary corporate stock.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The President of the Board of Aldermen, on behalf of the Committee on Transit, recommended the approval of the contract.

The following resolution was offered:

Resolved, That, pursuant to the provisions of section 37 of the Rapid Transit Act, being chapter 4 of the Laws of 1891, as amended, and the provisions of section 45 of the Greater New York Charter, and the requisition of the Public Service Commission for the First District, duly made by said Commission on January 5, 1914, the Board of Estimate and Apportionment hereby consents to the proposed contract to be entered into between the Rapid Transit Subway Construction Company, the Interborough Rapid Transit Company and The City of New York, acting by the Public Service Commission for the First District, for the following purposes:

For the construction in the Borough of Manhattan of Section No. 6 of Routes Nos. 4 and 38, being that portion of the proposed Seventh Avenue-Lexington Avenue Rapid Transit Railroad, beginning at a point under 7th avenue about seventy-five (75) feet north of the northerly building line of West 30th street and extending thence northerly under 7th avenue to a point about one hundred (100) feet south of the southerly building line of West 43d street, at an estimated cost to the City of one hundred and fourteen thousand six hundred and forty-seven dollars and eighteen cents (\$114,647.18); and be it further

Resolved, That the Board of Estimate and Apportionment prescribes that the limit to the amount of proceeds of corporate stock available for the said purposes shall be one hundred and fourteen thousand six hundred and forty-seven dollars and eighteen cents (\$114,647.18); and be it further

Resolved, That the Comptroller be and he is hereby authorized and directed to issue corporate stock of The City of New York to the amount of one hundred and fourteen thousand six hundred and forty-seven dollars and eighteen cents (\$114,647.18) at such rate of interest as the Commissioners of the Sinking Fund shall prescribe, the proceeds to the amount of the par value thereof to be applied to the purposes mentioned in the communication of the Public Service Commission for the First District to this Board dated January 5, 1914, said issue of corporate stock to be charged against the appropriation made by this Board on March 18, 1913, of twenty-eight million two hundred thousand dollars (\$28,200,000) for the purpose of carrying out the contract dated March 19, 1913, known as Contract No. 3.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Parks, Borough of Queens—Issue of Special Revenue Bonds (Cal. No. 18).

The Secretary presented:

Report of the Comptroller recommending the issue of \$1,000 special revenue bonds (subdivision 8, section 188 of the Charter), for the purpose of making repairs to the Barclay Mansion, located in Gaynor Park, Astoria, Borough of Queens, under the jurisdiction of the Department of Parks, Borough of Queens, also recommending approval of a schedule for the fund.

(On December 24, 1913, the resolution of the Board of Aldermen requesting the above issue, was referred to the Comptroller.)

(On January 16, and again on January 23 (Cal. No. 20), 1914, the above report was laid over.)

Which was withdrawn by the Comptroller.

Department of Water Supply, Gas and Electricity—Issue of Special Revenue Bonds (Cal. No. 19).

The Secretary presented:

Report of the Comptroller recommending the issue of \$1,500 special revenue bonds (subdivision 8, section 188 of the Charter), to provide for the expenses connected with moving the effects of the Department of Water Supply, Gas and Electricity into the new Municipal Building.

(On December 24, 1913, the resolution of the Board of Aldermen requesting the above issue, was referred to the Comptroller.)

(On January 16, and again on January 23 (Cal. No. 21), 1914, the above report was laid over for one week.)

Which was withdrawn by the Comptroller.

Department of Education—Retirement of Daniel L. Yeomans, Carpenter (Cal. No. 20).

The Secretary presented:

Report of the Committee on Salaries and Grades, recommending the retirement, pursuant to chapter 669, Laws of 1911, as amended, of Daniel L. Yeomans, Carpenter, Bureau of Buildings, Department of Education, on an annuity of \$695.

(On January 20, 1912, the resolution of the Board of Education, requesting the retirement of the above named employee, was referred to said committee.)

(On December 11, 18, 24 and 31, 1913, and on January 9, 16 and 23, 1914 (Cal. No. 17), the above report was laid over.)

Which was withdrawn by the Comptroller.

Department of Water Supply, Gas and Electricity—Contract with the Citizens' Water Supply Company, Borough of Queens (Cal. No. 21).

(On June 12, 1913, the above matter was referred to the Comptroller and the Chief Engineer of the Board.)

(On July 10 and 31, 1913, the matter was laid over.)

(On December 31, 1913, the Board adopted a resolution directing the Commiss-

*If the bidder is an individual, do not fill in this blank; if the bidder is a firm here say, "a member of the firm of _____," if a corporation, say "the (President or other officer duly authorized) of the Company."

sioner of Water Supply, Gas and Electricity not to enforce an order to the Citizens' Water Supply Company to discontinue the service of water to City mains.)

(On January 9, 1914, the matter was laid over two weeks.)

(On January 23, 1914, the matter was laid over one week.)

The Secretary presented the following:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 6, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On June 10, 1913, the Deputy and Acting Commissioner of Water Supply, Gas and Electricity transmitted for the approval of the Board of Estimate and Apportionment the form of contract between the Citizens' Water Supply Company and the City for the purchase of water for use in the Borough of Queens. This form of contract was referred to the Comptroller and the Chief Engineer of the Board for consideration and report.

After the proposed form of contract had been considered, the Deputy and Acting Commissioner withdrew his communication of June 10, 1913, and under date of July 8, 1913, resubmitted a modified form of contract.

Under the proposed form of contract the company is required to furnish not less than 2,800,000 gallons of water in each twenty-four hours but the average supply delivered to the City and paid for by the City must not be less than 3,000,000 gallons per each twenty-four hours.

The rate fixed in the contract is \$65 per million gallons.

The period of the contract is fixed to run for three years from January 8, 1913, until January 8, 1916.

A clause in the contract gives the privilege of a further term of three years with the consent of the Board of Estimate and Apportionment and the separate written consent and approval of the Mayor and the Comptroller to be given at least six months before the expiration of the contract.

The form of contract is similar to the contract dated July 9, 1907, which expired July 9, 1912, except that the term is for three years instead of five years and that the minimum average supply which the City must buy is 3,000,000 gallons instead of 1,000,000 gallons per twenty-four hours.

When the old contract with the Citizens' Water Supply Company expired on July 9, 1912, the City did not make a new contract with the company at that time, but it is stated by the Deputy and Acting Commissioner of the Department of Water Supply, Gas and Electricity, that there were negotiations between that department and the Citizens' Water Supply Company.

While the old contract had required the City to buy at least 1,000,000 gallons a day, the City had been purchasing an average of about 6,000,000 gallons per day from the Citizens' Water Supply Company, and occasionally had been purchasing as much as 8,000,000 per day.

Although there was not a contract between the Citizens' Water Supply Company and the City the company continued to supply water to the City. For instance, in 1912, the daily average purchased was over 7,000,000 gallons.

The City paid to the Citizens' Water Supply Company in 1912 the sum of \$169,759 for water, most of which was delivered without contract.

The contract which expired on July 9, 1912, contained a provision to the effect that if the Commissioner of Water Supply, Gas and Electricity desired the contract to be extended, notice to that effect should be given to the Citizens' Water Supply Company six months in advance, that is on January 9, 1912. According to the Department of Water Supply, Gas and Electricity, several of the clauses of the contract were considered objectionable and no such notice was given. The stated object in giving no such notice was to allow the contract to terminate and open the way for negotiations for a new contract.

Deputy and Acting Commissioner Bennett states that these negotiations started six months before the date of the expiration of the contract; that they were very protracted owing to the difficulty of agreeing on terms, and that numerous and lengthy conferences with representatives of the Citizens' Water Supply Company were necessary so that a draft of the proposed new contract could not be prepared and forwarded by the Commissioner to the Law Department until December 9, 1912, seven months after the expiration of the old contract.

In his letter transmitting the form of proposed new contract to the Corporation Counsel the Commissioner of Water Supply, Gas and Electricity called attention to the objections of the company to several of the contract provisions involving legal questions. He requested the Corporation Counsel's advice in the matter.

Mr. Bennett, the Deputy and Acting Commissioner, stated as follows:

"On January 8 a conference was held at the Mayor's office at which the Commissioner of the Department and the representatives of the Citizens' Water Company were present. The unsettled points in the proposed contract were fully discussed, agreed to, and the draft as thus prepared forwarded to the Corporation Counsel so that he could put the contract into proper legal form.

"Before the Corporation Counsel had returned the contract, the Commissioner, on May 31, 1913, addressed a communication to the Citizens' Water Company directing them to disconnect all their pipes and water mains from those belonging to The City of New York and to refrain from supplying water to the City, the notice thus sent having been prepared at the Commissioner's request by the Corporation Counsel.

"This action of the Commissioner was based on the report received by him from his Chief Engineer on May 2, 1913, showing that, owing to the reduction in the water consumption in the Borough of Brooklyn, resulting from the work to reduce water waste in that Borough, the necessary amount of water for supplying the 1st Ward in the Borough of Queens could readily be obtained from Brooklyn at a cost of about one-third of the price paid to the Citizens' Water Company.

"The latter did not answer the Commissioner's notice of May 31, but brought the matter to the attention of the Mayor, alleging that by taking water necessary to the development of sources of supply beyond the present requirements of the company's consumers in the 2d Ward, the City had assumed an obligation to said company and that if it cease now to purchase water from the company, the latter would be compelled to raise its rates for water sold sufficiently to provide a reasonable return on the money invested in its plant, after making provision for operation, maintenance and depreciation. They held, also, that the City was bound in equity to take water from them, because the terms of the new contract had been practically agreed upon, and it would have been executed had the decision from the Corporation Counsel on the law points submitted to him been received. A conference was held at the Mayor's Office in June of 1913, which was attended by the Commissioner of the Department, the representatives of the Citizens' Water Company, and Mr. Maurice E. Connolly, the President of the Borough of Queens, who was very much interested in the matter owing to the threatened increase in the water rates to consumers in the 2d Ward if the City discontinued purchasing water from the Citizens' Water Company. After a full discussion of the matter, it was agreed at that meeting that, owing to the reasons given by the Citizens' Water Company's counsel, the City was bound in equity to accept the contract as already framed, to take effect from the 8th of January, 1913, which was a few days after the contract had been forwarded to the Corporation Counsel for final revision. Under its provisions the City is to take three million gallons per day for three years."

It was after the conference at the Mayor's office that the form of contract now before this Board was submitted to the Board.

The facts in this case seem to be quite clear.

There is no necessity to buy water from the Citizens' Water Company at the present time. The supply in Brooklyn is more than sufficient and there is ample connection between the Brooklyn system and the Queens system to furnish all the water necessary in the territory that has been supplied by the Citizens' Water Company.

The water which has been purchased from the Citizens' Water Company has been distributed in the 1st Ward of Queens, including Long Island City. The Citizens' Water Company has no mains in this Ward, but has its own distribution system in the 2d Ward of Queens, where the City has no mains.

The present supply from Brooklyn to Long Island City is through a series of mains. One 48-inch main will deliver 10,000,000 gallons daily from the Ridgewood reservoir to Long Island City. A second 48-inch main can deliver 5,500,000 gallons per day to Long Island City. The consumption in the 1st Ward of Queens varies from 8,500,000 gallons to 10,000,000 gallons per day.

The capacity of the Brooklyn water system with all pumping stations in operation is 150,000,000 gallons daily.

The daily average consumption of water is about 121,000,000 to 125,000,000 gallons, so that approximately the Brooklyn system with all pumping stations in operation could supply from 25,000,000 to 29,000,000 gallons per day more than is necessary in Brooklyn. The consumption of water in Brooklyn has been steadily decreasing.

According to the Department of Water Supply, Gas and Electricity, water can be furnished from the Brooklyn system at a cost of about one-third the cost of \$65 per million gallons paid to the Citizens' Water Supply Company.

The water supplied from the Brooklyn system is the same as is used in the greater part of Brooklyn. It is good water.

It appears to me that the main question to be determined is whether or not the City is obligated either morally or legally to carry out the term of a proposed contract which was never executed. With that question in mind I submitted to the Department of Water Supply, Gas and Electricity, the following question:

"Did the Citizens' Water Supply Company increase its plant or capacity in any way because of the prospect of a new contract with the City after the expiration of the old contract on July 9, 1912?"

The answer of the Department of Water Supply, Gas and Electricity was as follows:

"This Department has no knowledge as to any increase of plant or capacity by the Citizens' Water Supply Company, and under the conditions existing it is doubtful whether such increase would be made by said company."

With a view to determining whether or not the Citizens' Water Supply Company had received due notice of the intention of the City to supply water from its own system in the 1st and 3rd Wards in Queens I submitted the following question to the Department of Water Supply, Gas and Electricity:

"Did the Citizens' Water Supply Company know the City had built or was building mains leading to Queens and that the City contemplated furnishing water to the 1st and 3rd Wards from its own sources of supply?"

The answer to that question was as follows:

"In the latter part of 1910 the Citizens' Company was informed that the Department was planning to supply water from its own system to both the 1st and 3rd Wards, but that the connection between the Croton System and the 1st Ward would probably not be completed until the latter part of 1911; that no additional development of the Citizens' Water Supply Company's plant would be required to supply water to the City during the summer of 1911."

The connection above referred to between Manhattan and Queens was the proposed main to be laid in the Gas Company's tunnel under the East River.

A statement by the Department of Water Supply, Gas and Electricity shows that the Citizens' Water Supply Company has furnished between 1898 and the end of 1912 a daily average ranging from about 1,250,000 in one year to more than 8,000,000 gallons in another year. The amount paid to this company in that time was as follows:

Year.	Amount Paid.
1898.....	\$17,429 08
1899.....	56,276 40
1900.....	78,988 58
1901.....	69,917 23
1902.....	73,969 63
1903.....	95,955 67
1904.....	104,730 47
1905.....	116,364 91
1906.....	118,015 82
1907.....	124,671 52
1908.....	144,241 23
1909.....	166,140 31
1910.....	193,425 91
1911.....	186,735 57
1912.....	169,759 00

*From June 4, 1898, date of beginning.
The total paid in this time to the Citizens' Water Supply Company for water was \$1,716,621.33.

This does not include any payment made for water furnished in 1913.
The City has been buying water from two other private water companies in Queens.

The City has been paying to the Urban Water Supply Company the rate of \$55 per million gallons, which is \$10 less than the rate proposed for the Citizens' Water Supply Company.

The City pays to the Queens County Water Company the rate of only \$30 per million gallons, but this does not afford a fair basis of comparison with the two other companies, as the Queens County Company simply turns its water into the City's mains.

The Engineers who examined into this matter when the present proposed form of contract was submitted reported that the rate of \$65 per million gallons was excessive.

The minimum consumption allowed to the City by the proposed contract is three times as much as was provided in the contract which expired on July 9, 1912; in other words the contract covering a period when the City really needed water in Queens required the City to purchase only 1,000,000 gallons, and the contract proposed for a period when the City does not have to purchase water requires that it purchase 3,000,000 gallons per day.

I call the attention of this Board to the fact that the Urban Water Supply Company has been offering to supply water in Queens to 3,000,000 gallons per day or such lesser amount as may be agreed upon of potable water at \$55 per million gallons and to begin the delivery of the same on twenty-four hours' notice. The Company offers to execute and deliver to the City its bond with sureties to be approved by the Comptroller in the penal sum of \$50,000 for the performance of the contract which it proposes.

One of the main reasons urged in favor of the proposed contract is that the Citizens' Water Supply Company may increase its rate to private consumers in the 2d Ward if the City does not purchase water from the company.

No one need be unduly alarmed over any suggested change in rate. Section 472 of the Charter of Greater New York gives the Commissioner of Water Supply, Gas and Electricity very effective control of all private water companies doing business within the City. The Commissioner is not only empowered to examine into the source of water supply of any private water company supplying water to the inhabitants of New York City, to see that the same is wholesome and that the supply is adequate, but the Commissioner has power to establish such rules and regulations as are reasonable and necessary for the convenience of the public and the citizens.

The Charter says:

"Said Commissioner may exercise superintendence, regulation and control in respect of the supply of water of such water companies, *including rates, fares and charges to be made therefor*, except that such rates, fares and charges shall not without the consent of the grantee be reduced by the said Commissioner beyond what is just and reasonable."

Two Corporation Manuals that I have consulted give the 1913 statement of the Citizens' Water Supply Company of Newtown as follows:

"Capital stock authorized, \$3,000,000; outstanding, \$1,500,000; dividends, 10 per cent. Bonded debt, \$150,000; first mortgage, 5 per cent. Bonded debt \$1,000,000; second mortgage, 4 per cent."

If this statement is correct and the company is paying 10 per cent. in dividends, I do not see how the company could reasonably increase its rates because of the loss of a contract with the City unless the company has been making an exorbitant profit out of the City contract.

I should call your attention to the fact that the \$1,716,621.33 paid to the Citizens' Water Supply Company by the City for water purchased since 1898 does not include hydrant rental.

The City is paying to the Citizens' Water Supply Company about \$20,000 per year for rental of fire hydrants. This \$20,000 may be regarded as largely clear profit because the supply of water used from the fire hydrants is negligible in quantity, the chief expense being the interest and amortization on the original cost of installing hydrants.

Under date of December 30, 1913, the Commissioner of Water Supply, Gas and Electricity served formal notice upon the Citizens' Water Supply Company that the City would on January 1, 1914, discontinue all pipes and water mains of the Citizens' Water Supply Company, and that company was directed to refrain from supplying water to The City of New York after December 31, 1913.

As the result of the action taken at the meeting of this Board on December 31 the Commissioner sent a notice on that date to the Citizens' Water Supply Company stating that the notice to discontinue water would not be enforced, and that in accordance with the wishes of this Board the notice of December 30, 1913, was withdrawn.

These facts are submitted to the Board of Estimate and Apportionment without recommendation. Respectfully, WM. A. PRENDERGAST, Comptroller.

Hon. William F. Sheehan, representing the Citizens' Water Supply Company, appeared on behalf of said company.

John DeLarme, of the 2d Ward, Borough of Queens, protested against making of the contract with the Citizens' Water Supply Company and also against an increase in the rates charged by said company.

J. W. F. Bennett, Deputy Commissioner of Water Supply, Gas and Electricity, appeared on behalf of that Department.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby declines to approve the proposed contract between The City of New York and the Citizens' Water Supply Company for the purchase of water for use in the Borough of Queens, submitted by the Deputy and Acting Commissioner of Water Supply, Gas and Electricity under date of July 8, 1913.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Application for Retirement—Employment of Counsel by City Employees (Cal. No. 22).

The Secretary presented the following:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 23, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—My attention has been called to the fact that employees of The City of New York have considered it necessary to employ attorneys to make application for retirement under the provisions of sections 165, 166 and 167 of the Charter. I think it should be made quite plain to all City employees at this time that it is absolutely unnecessary to employ the services of counsel in making applications for retirement.

The Charter gives the Board of Estimate and Apportionment discretion to retire on half pay employees mentally or physically disabled who have worked for an aggregate of thirty years in the employ of the City or the counties therein, or in the case of veterans who have worked for twenty years in the employ of the City or the counties therein.

The application for retirement must be made by a member of the Board of Estimate and Apportionment. This recommendation has been made where formal application has been made by heads of departments or by the employees themselves whenever the facts justified a recommendation for retirement.

The proper course for any employee who is eligible for retirement and who wishes to be retired is to ask the head of his department to apply for his retirement. Of course the employee may make his request directly to the Board of Estimate and Apportionment; but this should not be necessary, as the department heads will, no doubt, always be willing to make the application for the employee.

The services of a lawyer can be of no value to any City employee in the matter of his application for retirement. The first step taken is to refer the application to the Committee on Salaries and Grades; then the employee is examined by a physician acting for the Board of Estimate and Apportionment. After the physician reports that the employee is mentally or physically unfit for duty, the service record of the employee is examined into with great thoroughness by examiners representing the Committee on Salaries and Grades. If the length of service is sufficient, and all the requirements of the law are met, and the employee is unfit for duty, the Committee on Salaries and Grades will always report the facts without the intervention of a lawyer.

I recommend that the attached resolution be adopted and that a copy of it be sent to every head of department, office, bureau, board and commission of The City of New York and the counties therein included, with the request that all employees be notified that attorneys should not be employed to advocate applications for retirement. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby serves notice upon all employees of The City of New York that it is unnecessary for any employee of The City of New York or the counties therein included to employ an attorney or counsel to make or to follow up an application for retirement under the provisions of sections 165, 166 and 167 of the Greater New York Charter, and that employees should not be led into unnecessary and expensive employment of counsel or attorneys for such purposes.

Resolved, That a copy of this resolution be sent by the Secretary of this Board to the head of every department, office, bureau, board and commission of The City of New York and the counties included therein.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

All City and County Departments—Records of Service of Employees (Cal. No. 23).

The Secretary presented the following:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 21, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—In verifying the period of service of applicants for retirement under the provisions of sections 165, 166 and 167 of the Charter, as amended, great difficulty is often encountered because of the lack of records properly kept. This difficulty is particularly in evidence in the case of per diem employees, so that it often becomes necessary to resort to the original payrolls. Very often the causes of absence are not stated. This makes it impossible properly to apply that portion of the law which states that the term of service shall not be affected "by any vacation or leave of absence or by any temporary disability by reason of sickness or accident."

A certain term of service, properly substantiated by official records, must, in our opinion, serve as the basis of any pension system which the City may eventually adopt. For this reason we deem it advisable that the Board of Estimate and Apportionment request all City and County Departments, including the Municipal Civil Service Commission, to make such changes, wherever necessary, in the manner of keeping the records of employees as will adapt them to the additional use to which they will hereafter be put.

Such records, to be admissible as evidence of the term of service of any employee seeking a pension, should be in permanently bound book form. They should show the original date of entry into the service, the age of the employee at that time, his title and his rate of compensation. They should contain all subsequent changes in title or in the rate of compensation, and the reason for any interruption in the service that may occur. The amount paid each pay day should be shown with a reference to the payroll, by number or otherwise, upon which acknowledgment of receipt of the money may be found. In this way the book will serve as an index to the payrolls. In the case of per diem employees the actual number of days or fractions of days employment for which payment is made each pay day should be recorded. Fractional days should not be consolidated, but should be shown separately.

When an employee is transferred from one department to another, this fact should be recorded in the books of the Department to which he has been transferred, as well as in those of the Department he has left. When an employee re-enters the service after a prior resignation or dismissal, his new record should be clearly connected with the old.

We recommend the adoption of the attached resolution calling upon all City and County Departments hereafter to keep their records of employees in the manner herein outlined. Respectfully,

WM. A. PRENDERGAST, Comptroller; GEORGE McANENY, President, Board of Aldermen, Committee on Salaries and Grades.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment herewith calls upon the heads of all City and County Departments hereafter to maintain their records of employees in the manner outlined in the attached report, so that such records may serve as a proper basis upon which to grant pensions to City employees in the future, and be it further

Resolved, That the Secretary of this Board is hereby directed to transmit to the heads of all City and County Departments of The City of New York a copy of the report of the Committee on Salaries and Grades, dated January 21, 1914, and that he be also directed to send a copy of this resolution with each copy of such report.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

men and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

All City Departments—Observance of Section 1542 of the Charter (Cal. No. 24).

The Secretary presented the following:

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 20, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—Section 1542 of the Charter provides, in part, as follows:

"It shall be the duty of the heads of all departments and of all offices of said City, and of all boards and offices charged with the duty of expending or incurring obligations payable out of the moneys raised by tax in said City, or any of the Counties contained within its territorial limits, so to regulate such expenditures for any purpose or object, that same shall not in any one year exceed the amount appropriated by the Board of Estimate and Apportionment, for such purpose or object; and no charge, claim or liability shall exist or arise against said City, or any of the Counties contained within its territorial limits, for any sum in excess of the amounts appropriated for the several purposes."

In the past, this law has been disregarded in many departments. The Board of Estimate has not discouraged such violations of the law as it should have done, but has too frequently given its encouragement by providing funds to meet deficits that had been created. Among pending revenue bond matters, are requests for funds to meet deficits which were created in violation of section 1542 of the Charter.

It is my opinion, that the Board of Estimate should put itself on record against such violations.

I recommend the adoption of the attached resolution which calls upon all the heads of departments, boards, commissions, bureaus and offices to observe section 1542 of the Charter and which further provides that in future, the Board of Estimate and Apportionment will not approve revenue bond issues or other means of providing for deficits illegally created. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The President of the Borough of Manhattan moved the adoption of the resolution with the following stricken out: "Resolved, That the Board of Estimate and Apportionment will not approve of the issue of special revenue bonds and will not approve any other means of providing funds to meet deficits created in disregard to section 1542 of the Charter," which motion was adopted, and the following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby directs all heads of departments and all offices of New York City, to regulate their expenditures for any purpose or object so that the same shall not in any one year exceed the amount appropriated by the Board of Estimate and Apportionment for such purpose or object; and be it further

Resolved, That the Secretary of the Board of Estimate and Apportionment is directed to send a certified copy of this resolution to the heads of all departments, boards, commissions, bureaus and offices that are charged with the duty of expending or incurring obligations payable out of moneys raised by taxes in The City of New York.

Which was adopted by the following vote:

Affirmative—The Mayor, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—13.

Negative—The Comptroller—3.

Department of Correction—Establishment of Position of Head Keeper (Cal. No. 25).

(On November 26, 1913, this matter was referred to the Committee on Salary and Grades.)

The Secretary presented the following:

Department of Correction of The City of New York, Commissioner's Office, 148 East 20th Street, New York, November 24, 1913.

Mr. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, 277 Broadway, New York City:

Dear Sir—I would respectfully request the Honorable the Board of Estimate and Apportionment to establish in this department in addition to those positions of Head Keeper already established, the position of (1) Head Keeper, at \$1,800 per annum.

This is to provide for the appointment of a Head Keeper to fill a vacancy in the department caused by the retirement of Nicholas Jones, Deputy Warden.

The duties and salaries of the positions of Head Keeper and Deputy Warden are identical. The above mentioned Nicholas Jones has been for the past ten years the only Deputy Warden in the department, and inasmuch as the position of Head Keeper is asked for in lieu of that of Deputy Warden, and will not call for an additional appropriation, I trust that your Honorable Board will take favorable action in the matter.

Very respectfully, PATRICK A. WHITNEY, Commissioner.

Department of Finance, The City of New York, Bureau of Municipal Investigation and Statistics, January 21, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On November 24, 1913, the Commissioners of Correction requested establishment of the grade of position of Head Keeper at \$1,800 per annum for one additional incumbent. In connection therewith we report as follows:

It is proposed to change the title of the position of Deputy Warden to that of Head Keeper, the salary and duties of both being the same.

The title of Deputy Warden was held by Nicholas Jones, who has been recently retired. It is proposed to fill the vacancy by the appointment of a Head Keeper to conform with the title held by those having similar duties and responsibilities. The position of Deputy Warden has long been discontinued by the department, and there is no such Civil Service list in existence. The position of Head Keeper is established for a limited number of incumbents.

In view of these facts we recommend the adoption of the attached resolution approving the request. Respectfully,

WM. A. PRENDERGAST, Comptroller; GEORGE MCANENY, President, Board of Aldermen, Committee on Salaries and Grades.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 56 of the Greater New York Charter, hereby recommends to the Board of Aldermen the establishment in the Department of Correction, of the grade of position, in addition to those heretofore established, as follows:

Title.	Rate Per Annum.	Number of Incumbents.
Head Keeper	\$1,800 00	1

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Public Charities—Approval of Form of Contract (Cal. No. 26).

The Secretary presented the following:

Department of Public Charities of The City of New York, Foot of East 26th Street, December 26, 1913.

Hon. WILLIAM A. PRENDERGAST, Comptroller of The City of New York:

Sir—In accordance with a resolution adopted by the Board of Estimate and Apportionment directing that all City Departments authorized by the said Board to incur obligations and execute contracts payable out of corporate stock, submit plans, specifications, form of contract and estimates of cost prior to advertising for bids upon public works payable out of such corporate stock, I beg to submit for your consideration and report thereon to the Board of Estimate and Apportionment specifications, the form of contract and estimate of cost of the following work:

For furnishing all labor and material required for additional work in all buildings of the Greenpoint Hospital, Borough of Brooklyn, such as:

Waterproofing outside walls \$2,000 00
Blanket warmers and linen closets 3,000 00
Chase covers 11,500 00

\$16,500 00
This expenditure is chargeable to Department of Public Charities, Building Fund, C. C. H.—1A, and the estimated cost is \$16,500.

The exact title of the corporate stock authorized for this work is as follows:

"To provide means for the acquisition of the site and the construction of the new hospital to be known as Greenpoint Hospital, Borough of Brooklyn, \$375,000." I am anxious to advertise this work as soon as possible, and will thank you for your kind cooperation. Respectfully yours,

MICHAEL J. DRUMMOND, Commissioner.

City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 21, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On December 26, 1913, the Commissioner of Public Charities requested approval of form of contract, specifications and estimate of cost in the total sum of \$16,500 for furnishing all labor and materials for additional work in all buildings of the Greenpoint Hospital, Borough of Brooklyn, as follows:

Waterproofing outside walls at an estimated cost of \$2,000 00
Blanket warmers and linen closets, at an estimated cost of 3,000 00
Chase covers, at an estimated cost of 11,500 00

It was proposed that the total cost of this work, \$16,500, be charged against a corporate stock fund entitled, "C. C. H.—1A, Greenpoint Hospital, Acquisition of Site and Erection of New Building."

Appropriations for this fund were made as follows:

\$425,000; resolution of Board of Estimate and Apportionment, July 17, 1911; concurrence Board of Aldermen, July 31, 1911.

\$40,000; resolution of Board of Estimate and Apportionment, November 7, 1912; concurrence Board of Aldermen, November 19, 1912.

\$375,000; resolution of Board of Estimate and Apportionment, June 26, 1913; concurrence Board of Aldermen, July 15, 1913.

All these resolutions were amended by the Board of Estimate and Apportionment on October 9, 1913, and the action was concurred in by the Board of Aldermen November 23, 1913. The amendment consisted of a change in the designation of the work from that of the "Cumberland Street Hospital" to that of the "Greenpoint Hospital."

The plans and specifications as submitted provide unnecessary features which can be eliminated without injury to the hospital.

A saving of \$13,000 can be effected by cutting out the chase covers, at an estimated cost of \$11,500, and by reducing the number of blanket warmers and linen closets from eight to four, making a further saving of \$1,500.

The chase covers are absolutely unnecessary. They are intended to cover pipes in the walls, so that in case of a break the pipes can be reached easily. It would be unwise to spend \$11,500 to make it easy to reach pipes when breaks in the wall are so rare and so easily reached by cutting away a little plaster. No harm could result if the pipes were to be left uncovered as is done in some of the finest apartments in the City. The pipes do not stand out from the wall as in the ordinary type of exposed piping, but are set back in a recess in the wall provided for that purpose. It was proposed to have two blanket warmers on each floor. The blanket warmers are used only occasionally in cases where patients have to be given a hot pack. One blanket warmer on each floor, situated between the male and female wards should be entirely sufficient. After consulting with hospital experts on this question, I recommend that only one blanket warmer be built on each floor.

The specifications have been amended to eliminate the chase covers and to cut out four blanket warmers. In their present form, the specifications and form of contract are satisfactory. The estimated cost, \$3,500, for waterproofing outside walls and for building blanket warmers and linen closets, is reasonable.

On January 14, 1914, there was an unencumbered balance of \$17,014.27 in the fund to which the work is to be charged.

I recommend the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution of July 11, 1912, hereby approves the specifications, as amended, form of contract and estimated cost in the total sum of three thousand five hundred dollars (\$3,500), for furnishing all labor and materials for additional work in buildings of the Greenpoint Hospital, under the jurisdiction of the Department of Public Charities, as follows: Waterproofing Outside Walls, at an estimated cost of two thousand dollars (\$2,000), and Blanket Warmers and Linen Closets, at an estimated cost of one thousand five hundred dollars (\$1,500), the cost of these two items, three thousand five hundred dollars (\$3,500), to be charged against the corporate stock fund entitled "C. C. H.—1A, Greenpoint Hospital, Acquisition of Site and Erection of New Building," and if no bids are received for this work within the estimated cost, the Board of Estimate and Apportionment may, in its discretion, reconsider the amount of such estimated cost upon the bids so received, provided that any of said bids is within the amount authorized and available for such work.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Police Department—Approval of Form of Contract, Etc. (Cal. No. 27).

The Secretary presented the following:
City of New York, Police Department, Office of the Commissioner, December 10, 1913.

To the Honorable Board of Estimate and Apportionment:

Gentlemen—I have the honor to request your approval, pursuant to resolution adopted July 11, 1912, of the preliminary form of contract for the services of Macdonald & Reddy, 1181 Broadway, as architects for the construction of a station house, prison and garage for the 61st Precinct, on the southwest corner of Brook avenue and 142d street, in the Borough of The Bronx, to be paid from the appropriation made to the Police Department, entitled "C. P. D—2A, Police Department, Fund for Sites and Buildings," the cost to be one-half of one per cent. of the total amount the architects must not exceed in the preparation of their plans, etc., as the cost of the improvement, including architects' fees, the cost of the building not to exceed \$175,000, including architects' fees; also to pay from the said appropriation for the services of Francis W. Ford's Sons, No. 8 James street, surveyors, to make surveys showing grade levels, sewer, etc., estimated cost, \$100.

Respectfully,
R. WALDO, Police Commissioner.

City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 6, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On December 10, 1913, the Police Commissioner requested approval of the preliminary form of contract for the services of Macdonald & Reddy as architects for the construction of a station house, prison and garage for the Sixty-first Precinct, on the southwest corner of Brooke avenue and 142d street, in the Borough of The Bronx.

The estimated cost, \$1,750, is one per cent. of the estimate of the cost of the building, including architects' fees, and is to be charged to the corporate stock fund entitled "C. P. D—2A, Police Department, Fund for Sites and Buildings." The appropriation of \$2,000,000 for the fund was approved by the Board of Estimate and Apportionment on June 8, 1906, and by the Board of Aldermen on July 10, 1906. On January 2, 1914, there remained an unencumbered balance of \$131,747.23 in the fund.

An additional appropriation of \$75,000 for the erection of the Sixty-first Precinct Police Station House was approved by the Board of Estimate and Apportionment on June 26, 1913, and by the Board of Aldermen on July 15, 1913. No part of this fund, which is entitled "C. P. D—14, Police Department, Acquisition of Land and Erection of Buildings for Sixty-first Precinct, The Bronx," has been expended or encumbered.

The Police Commissioner also requested approval of a payment of \$100 for surveys of the land to be occupied by the Police Station House. As this will not be an advertised contract no action by the Board of Estimate and Apportionment under its resolution adopted on July 11, 1912, is necessary.

I recommend that the form of preliminary contract and the estimate of cost for the architects' services be approved by the adoption of the attached resolution.

Respectfully,
WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to its resolution adopted on July 11, 1912, hereby approves the form of preliminary contract with Macdonald & Reddy as architects for the preparation of preliminary sketches and specifications of the construction of a station house, prison and garage for the Sixty-first Precinct, Police Department, and the estimate of cost in the sum of one thousand seven hundred and fifty dollars (\$1,750), the cost to be charged to the corpo-

rate stock fund entitled "C. P. D.—2A, Police Department, Fund for Sites and Buildings."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

President, Borough of Manhattan—Modification of Schedules and Transfer of Appropriation (Cal. No. 28-A).

The Secretary presented the following:

City of New York, Office of the President of the Borough of Manhattan, Municipal Building, January 15, 1914.

To the Honorable Board of Estimate and Apportionment, No. 277 Broadway, New York:

Gentlemen—Request is hereby made for the following transfer of funds from the appropriation made to this Department entitled:

President, Borough of Manhattan, 1913, Contract or Open Order Service, General Repairs, Care of Public Buildings and Offices.

2805 Repairing, Office Buildings \$500 00
—to the appropriation made to this Department entitled:

President, Borough of Manhattan, 1913, Contract or Open Order Service, General Repairs, Care of Public Buildings and Offices.

2806 Repairing, Baths and Comfort Stations \$500 00

The transfer is necessary to provide additional funds in the appropriation for repairs to baths and comfort stations, which is insufficient to meet the outstanding obligations. Very truly yours,

MARCUS M. MARKS, President, Borough of Manhattan.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 23, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 15, 1914, the President of the Borough of Manhattan requested transfer of \$500 within appropriations to his office for the year 1913. In connection therewith I report as follows:

The proposed transfer is from Contract or Open Order Service, General Repairs, Care of Public Buildings and Offices, Repairing, No. 2805, Office Buildings, to Contract or Open Order Service, General Repairs, Care of Public Buildings and Offices, Repairing, No. 2806, Baths and Comfort Stations. The transfer is necessary to readjust the accounts and to provide the necessary funds to meet outstanding obligations.

I recommend the adoption of the attached resolutions granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the office of the President of the Borough of Manhattan for the year 1913, as follows:

FROM
Contract or Open Order Service, General Repairs, Care of Public Buildings and Offices, Repairing.

2805 Office Buildings \$500 00

TO
Contract or Open Order Service, General Repairs, Care of Public Buildings and Offices, Repairing.

2806 Baths and Comfort Stations \$500 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of Manhattan for the year 1913, as follows:

Contract or Open Order Service, General Repairs, Care of Public Buildings and Offices, Repairing.

2805 Office Buildings \$46,970 75

Tax Levy allowance \$26,970 75
Special Revenue Bond allowance, repairs to West Washington Market 20,000 00

Contract or Open Order Service, General Repairs, Care of Public Buildings and Offices, Repairing.

2806 Baths and Comfort Stations \$39,600 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

City Court of New York—Modification of Schedules and Transfer of Appropriation (Cal. No. 28-B).

The Secretary presented the following:

City Court of The City of New York, City Hall Park, Clerk's Office, January 20, 1914.

Board of Estimate and Apportionment, 277 Broadway, New York, N. Y.:

Gentlemen—A request is hereby made for the transfer of \$11.22 from the account known as "General Plant Service," Code No. 2360, 1913, to the account known as "Telephone Service," Code No. 2359, 1913.

This transfer is necessary in order to meet a deficiency in the "Telephone Service" account. Respectfully yours,

THOMAS F. SMITH, Clerk of the City Court of The City of New York.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 23, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 20, 1914, the Clerk of the City Court requested transfer of \$11.22 within appropriations to that court for the year 1913. In connection therewith I report as follows:

It is proposed to transfer \$11.22 from Contract or Open Order Service No. 2360, General Plant Service, to Contract or Open Order Service, Communication, No. 2359, Telephone Service. It is stated that the unexpended balance in No. 2359, on December 31, 1913, was \$55.95, and the liabilities against the account \$67.17, leaving a deficit of \$11.22. There is sufficient balance in No. 2360 to meet the transfer.

I recommend the adoption of the attached resolutions granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of sections 237 of the Greater New York Charter, hereby approves of transfer of funds appropriated to the City Court of New York, for the year 1913, as follows:

THE CITY COURT OF NEW YORK.

FROM
Contract or Open Order Service.

2360 General Plant Service \$11 22

TO
Contract or Open Order Service, Communication.

2359 Telephone Service \$11 22

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for The City Court of New York, for the year 1913, as follows:

THE CITY COURT OF NEW YORK.
Contract or Open Order Service, Communication.

2359 Telephone Service \$361 22
2360 General Plant Service 143 78

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Charitable Institutions, Department of Water Supply, Gas and Electricity—Modification of Schedules and Transfer of Appropriations (Cal. No. 28-C).

The Secretary presented the following:

The City of New York, Department of Water Supply, Gas and Electricity, Commissioner's office, 13-21 Park Row, New York, December 19, 1913.

Hon. WILLIAM A. PRENDERGAST, Comptroller:

Dear Sir—You very kindly obtained, by transfer to the appropriate account of this department, sufficient funds to pay the Citizens' Water Supply Company for water furnished by them to Long Island City up to the 1st of October. This was done, in lieu of furnishing revenue bonds, in accordance with the request of this department, and it has occurred to me that you may be able to secure in the same manner a sufficient sum to pay for the service for the balance of the year, which will approximate \$18,000.

If you can secure this sum by transfer, will you kindly do so, or recommend favorable action on my request to the Board of Aldermen.

Yours truly, J. W. F. BENNETT, Deputy and Acting Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 23, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On December 19, 1913, the Deputy and Acting Commissioner of Water Supply, Gas and Electricity requested transfer of \$18,000 to his Department to pay the balance due the Citizens' Water Supply Company for water furnished to Long Island City between October 1 and December 31, 1913.

During this time, 92 days, the company furnished 3,000,000 gallons daily at \$65 per million gallons.

Balances available for transfer were found in several funds appropriated for charitable institutions for the year 1913.

I recommend the adoption of the attached resolution authorizing the transfer requested. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of transfer of funds appropriated for charitable institutions for the year 1913, to the funds appropriated for the Department of Water Supply, Gas and Electricity, for the same year, as follows:

FROM
CHARITABLE INSTITUTIONS.

2583 German Hospital and Dispensary	.....	\$2,000 00
2587 Hebrew Orphan Asylum	.....	2,000 00
2596 Institution of Mercy	.....	3,000 00
2597 Industrial School Association of Brooklyn, Eastern District	.....	2,000 00
2606 Lincoln Hospital and Home	.....	3,000 00
2608 Mission of the Immaculate Virgin	.....	2,000 00
2637 Roman Catholic Orphan Asylum Society	.....	2,000 00
2645 St. Catherine's Hospital	.....	2,000 00
		\$18,000 00

TO
DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Contract or Open Order Service, General Plant Service.

875TW Water Supply \$18,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Water Supply, Gas and Electricity for the year 1913, as follows:

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.
Contract or Open Order Service, General Plant Service.

875TW Water Supply—		
Executive	.....	\$75 00
Collection and Storage	.....	2,200 00
Pumping, General	.....	380 00
Driven Well System, Queens	.....	23,500 00
Distribution—		
Purchase of Water	.....	154,900 00
Cleaning Water Mains	.....	20,000 00
Rental of Fire Hydrants	.....	112,870 00
		\$313,925 00
Tax levy allowance	.....	\$222,270 00
Water revenue allowance	.....	68,155 00
Special revenue bond allowance	.....	23,500 00
		\$313,925 00

Total allowance \$313,925 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Board of City Record—Modification of Schedules and Transfer of Appropriation (Cal. No. 28-D).

The Secretary presented the following:

The City of New York, Board of City Record, Office of the Supervisor, 13-21 Park Row, January 15, 1914.

Hon. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment:

Dear Sir—I respectfully request that the Board of Estimate and Apportionment transfer within the budgetary appropriations made to the Board of City Record for the year 1913 the following amount:

FROM
1913-3918 The County of Queens—Board of City Record—Contract or Open Market Order Service, General Plant Service, Purchase, Storage and Distributing of Stationery and Supplies, County Offices and Courts other than Supreme Court, Blank Books \$3 00

1913-3917 The County of Queens—Board of City Record—Contract or Open Market Order Service, General Plant Service, Purchase, Storage and Distributing of Stationery and Supplies, County Offices and Courts other than Supreme Court, Stationery, Including Letter or Writing Paper, or Envelopes with Printed Headings or Endorsements \$3 00

This transfer is necessary to provide for a deficiency in the appropriation for stationery supplies for Queens County.

Respectfully, DAVID FERGUSON, Supervisor of the City Record.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 23, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 15, 1914, the Supervisor of the City Record requested transfer of \$3 within the appropriations made for the Board of City Record of Queens County for 1913. In connection therewith I report as follows:

It is proposed to transfer from Contract or Open Order Service, General Plant Service, Purchase, Storage and Distribution of Stationery and Supplies, County Offices and Courts other than Supreme Court account No. 3918, Blank Books, to

No. 3917, Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements, to meet a deficit.

I recommend the adoption of the attached resolutions granting the request.
Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated for the Board of City Record for the year 1913, as follows:

BOARD OF CITY RECORD, QUEENS COUNTY.

Contract or Open Order Service, General Plant Service—Administration, Purchase, Storage and Distribution of Stationery and Supplies, County Offices and Courts other than Supreme Court.

FROM 3918 Blank Books \$3 00
TO 3917 Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements 3 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Board of City Record for the year 1913, as follows:

BOARD OF CITY RECORD, QUEENS COUNTY.

Contract or Open Order Service, General Plant Service—Administration, Purchase, Storage and Distribution of Stationery and Supplies, County Offices and Courts other than Supreme Court.

3917 Stationery, including Letter or Writing Paper or Envelopes with Printed Headings or Endorsements \$1,053 00
3918 Blank Books 1,097 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Bridges—Modification of Schedules and Transfer of Appropriation (Cal. No. 28-E).

The Secretary presented the following:

Department of Bridges, City of New York, Municipal Building, Manhattan, N. Y., January 16, 1914.

Hon. WILLIAM A. PRENDERGAST, Comptroller, The City of New York, 280 Broadway, New York City:

Sir—I have to request transfers within the Budget appropriation for the Department of Bridges for the year 1913, as follows:

FROM
162 Brooklyn Bridge \$25 00
Supplies, Laundry, Cleaning and Disinfecting Supplies, Care of Bridges.
170 All Bridges 20 00
Contract or Open Order Service, Shoeing and Boarding Horses, Including Veterinary Services, Care of Bridges.
206 Brooklyn Bridge 80 00

\$125 00

TO
Contract or Open Order Service, Shoeing and Boarding Horses, Including Veterinary Services—Care of Bridges.

205 All Bridges \$125 00

These transfers are requested for the purpose of meeting a deficit in schedule No. 205, and does not increase the Budget allowance made this department for the year 1913. Respectfully, F. J. H. KRACKE, Commissioner.

City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 21, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 16, 1914, the Commissioner of Bridges requested transfer of \$125 within appropriations for the year 1913. In connection therewith I report as follows:

It is proposed to transfer \$25 from Supplies, Forage and Veterinary Supplies, Care of Bridges, No. 162, Brooklyn Bridge; \$20 from Supplies, Laundry, Cleaning and Disinfecting Supplies, Care of Bridges, No. 170, All Bridges; \$80 from Contract or Open Order Service, Shoeing and Boarding Horses, including Veterinary Service, Care of Bridges, No. 206, Brooklyn Bridge, to Contract or Open Order Service, Shoeing and Boarding Horses, including Veterinary Service, Care of Bridges, No. 205, All Bridges.

In Account No. 205 there is no unencumbered balance. The proposed transfer is to meet an expense of \$117 and possibly a number of small bills that will bring the deficit to \$125. There are sufficient unencumbered balances in the other accounts to permit the transfers.

I recommend the adoption of the attached resolutions granting the request.
Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Department of Bridges for the year 1913, as follows:

FROM
162 Brooklyn Bridge \$25 00
Supplies, Laundry, Cleaning and Disinfecting Supplies, Care of Bridges.
170 All Bridges 20 00
Contract or Open Order Service, Shoeing and Boarding Horses, Including Veterinary Service, Care of Bridges.
206 Brooklyn Bridge 80 00

\$125 00

TO
Contract or Open Order Service, Shoeing and Boarding Horses, Including Veterinary Service, Care of Bridges.

205 All Bridges \$125 00

Which was adopted by the following vote:
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Bridges for the year 1913, as follows:

Supplies, Forage and Veterinary Supplies, Care of Bridges.
162 Brooklyn Bridge \$1,550 00
Supplies, Laundry, Cleaning and Disinfecting Supplies, Care of Bridges.
170 All Bridges 186 17
Contract or Open Order Service, Shoeing and Boarding Horses, Including Veterinary Service, Care of Bridges.
205 All Bridges 3,865 00
Contract or Open Order Service, Shoeing and Boarding Horses, Including Veterinary Service, Care of Bridges.

320 00

Which was adopted by the following vote:
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Board of Aldermen and City Clerk—Modification of Schedules and Transfer of Appropriation (Cal. No. 28-F).

The Secretary presented the following:

The City of New York, Office of the City Clerk, Borough of Manhattan, New York, January 12, 1914.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—Will you kindly make the following transfers within the appropriation granted to this department for the year 1913:

From Code 66½ to Code 60 \$30 00

From Code 64 to Code 65 10 00

—and oblige. Yours respectfully, P. J. SCULLY, City Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 19, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 12, 1914, the City Clerk requested transfer of \$40 within appropriations for his office for the year 1913. In connection therewith I report as follows:

The proposed transfer is from Contract or Open Order Service, Transportation, Carfare, Legislation, No. 64, President, Board of Aldermen, \$10, to Issuance of Licenses and Keeping of Records, No. 65, City Clerk; and from Communication, Telephone Service, Legislation, No. 66½, President, Board of Aldermen, \$30, to Supplies, Legislation, No. 60, President, Board of Aldermen.

The appropriations in Nos. 60 and 65 are entirely exhausted and it is stated that the two accounts need replenishing to meet unforeseen liabilities incurred during December. There are sufficient balances in Nos. 64 and 66½ to meet the transfers.

I recommend the adoption of the attached resolutions granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Board of Aldermen and City Clerk, for the year 1913, as follows:

BOARD OF ALDERMEN AND CITY CLERK.

FROM
Contract and Open Order Service, Transportation, Car Fare, Legislation.

64 President, Board of Aldermen \$10 00
66½ President, Board of Aldermen 30 00
\$40 00

TO
Supplies, Office Supplies, Legislation.

60 President, Board of Aldermen \$30 00
Contract or Open Order Service, Transportation, Car Fare, Issuance of Licenses and Keeping of Records.

65 City Clerk 10 00
\$40 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Board of Aldermen and City Clerk, for the year 1913, as follows:

BOARD OF ALDERMEN AND CITY CLERK.

Contract or Open Order Service, Transportation, Car Fare, Legislation.

64 President, Board of Aldermen \$90 00
65 City Clerk 60 00
66½ President, Board of Aldermen 582 84
Supplies, Office Supplies, Legislation.

60 President, Board of Aldermen 630 00
\$40 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Tenement House Department—Modification of Schedules and Transfer of Appropriation (Cal. No. 28-G).

The Secretary presented the following:

Tenement House Department of The City of New York, Borough of Manhattan, January 13, 1914.

Board of Estimate and Apportionment, No. 277 Broadway:

Gentlemen—I respectfully request the sum of five hundred and eight dollars and twenty-four cents (\$508.24) be transferred from Code No. 326, 1913, Supplies, to Code No. 333, 1913, Carfares, Tenement House Department, the latter appropriation being insufficient to meet the expenses of the balance of the year.

333—1913 Carfares—

Appropriation \$6,900 00
Vouchers to Finance Department \$6,733 77
Carfare, December, 1913 654 47
7,408 24

Deficit \$508 24

Respectfully, JOHN J. MURPHY, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 19, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 13, 1914, the Tenement House Commissioner requested transfer of funds within appropriations to his Department for the year 1913. In connection therewith I report as follows:

The proposed transfer of \$508.24 is from Supplies, No. 326, Office Supplies, to Contract or Open Order Service, Transportation, No. 333, Carfares.

In Account No. 333 there is an unexpended balance of \$146.23. Against this account there are outstanding carfare bills of Inspectors and other employees of that Department amounting to \$654.47. The proposed transfer is to liquidate this deficit of \$508.24. There is a sufficient unencumbered balance in Account No. 326 to permit the transfer.

I recommend the adoption of the attached resolutions granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves of the transfer of funds appropriated to the Tenement House Department for the year 1913, as follows:

FROM
Supplies.

326 Office Supplies \$508 24
TO
Contract or Open Order Service, Transportation.

333 Carfares \$508 24

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Tenement House Department for the year 1913, as follows:

Supplies.		Light, Heat and Power.	
326 Office Supplies	\$10,416 76	1613 Lighting Public Buildings	90 96
333 Carfares	7,408 24		\$926 72
Which was adopted by the following vote:		Which was adopted by the following vote:	
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.		Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.	
<i>Department of Parks, Manhattan and Richmond—Modification of Schedules and Transfer of Appropriation (Cal. No. 28-H).</i>			
The Secretary presented the following:		The following resolution was offered:	
The City of New York, Department of Parks, Boroughs of Manhattan and Richmond, Arsenal, Central Park, January 12, 1914.		Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1913, as follows:	
To the Honorable Board of Estimate and Apportionment, 299 Broadway, New York City:		NEW YORK AQUARIUM.	
Gentlemen—Pursuant to a communication received from Dr. Charles H. Townsend, Director, New York Aquarium, I respectfully request a transfer of \$926.72 within the appropriations made in the Budget for the year 1913, as follows:		Supplies.	
FROM		1602 Forage and Veterinary Supplies	\$2,158 09
Code No. 1602.....	\$176 61	1603 Fuel Supplies	4,034 13
Code No. 1603.....	15 87	1604 Office Supplies	186 07
Code No. 1605.....	87 13	1605 Laundry, Cleaning and Disinfecting Supplies	37 87
Code No. 1608.....	5 70	1606 Refrigerating Supplies	161 41
Code No. 1610.....	141 90	1607 General Plant Supplies	473 95
Code No. 1611.....	191 78		
Code No. 1614.....	71 59	Purchase of Equipment.	
Code No. 1615.....	42 39	1608 Office Equipment	25 50
Code No. 1616.....	157 50	1609 Wearing Apparel	110 50
Code No. 1617.....	36 25	1610 General Plant Equipment	952 71
TO		Materials.	
Code No. 1604.....	\$80 05	1611 General Plant Materials	491 96
Code No. 1606.....	21 23	1612 General Repairs	3,130 44
Code No. 1607.....	135 99		
Code No. 1609.....	4 35	Light, Heat and Power.	
Code No. 1612.....	594 14	1613 Lighting Public Buildings	1,501 46
Code No. 1613.....	90 96		
Dr. Townsend informs me that the transfers are necessary, for the reason that the greater part of the above amount (\$926.72) is \$594.14, which was necessary for repairs to machinery and piping (1612, Repairs and Replacements by Contract or Open Order). These transfers are made necessary because of the insufficiency of amounts in the accounts to which transfers are requested and a surplus in those from which transfers are requested:		Which was adopted by the following vote:	
Your immediate action upon this request will be appreciated. Very truly yours,		Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.	
CABOT WARD, Commissioner of Parks, Boroughs of Manhattan and Richmond.			
Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 21, 1914.			
To the Board of Estimate and Apportionment:			
Gentlemen—On January 12, 1914, the Commissioner of Parks, Boroughs of Manhattan and Richmond, requested transfer of \$926.72 within appropriations made to the New York Aquarium for the year 1913. In connection therewith I report as follows:			
The proposed transfers are as follows:			
FROM			
Supplies.			
1602 Forage and Veterinary Supplies	\$176 61		
1603 Fuel Supplies	15 87		
1605 Laundry, Cleaning and Disinfecting Supplies	87 13		
Purchase of Equipment.			
1608 Office Equipment	5 70		
1610 General Plant Equipment	141 90		
Materials.			
1611 General Plant Materials	191 78		
Contract or Open Order Service, Transportation.			
1614 Expressage and Deliveries	71 59		
Communication.			
1615 Telegraph, Cable and Messenger Service	42 39		
1616 General Plant Service	157 50		
1617 Contingencies	36 25		
TO			
Supplies.			
1604 Office Supplies	\$80 05		
1606 Refrigerating Supplies	21 23		
1607 General Plant Supplies	135 99		
Purchase of Equipment.			
1609 Wearing Apparel	4 35		
Contract or Open Order Service.			
1612 General Repairs	594 14		
Light, Heat and Power.			
1613 Lighting Public Buildings	90 96		
The transfers are required to provide funds in appropriate accounts for the payment of outstanding claims for 1913, the greater part being for repairs to machinery and piping.			
I recommend the adoption of the attached resolutions approving the request.			
Respectfully,	WM. A. PRENDERGAST, Comptroller.		
The following resolution was offered:			
Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated for the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1913, as follows:			
FROM			
Supplies.			
1602 Forage and Veterinary Supplies	\$176 61		
1603 Fuel Supplies	15 87		
1605 Laundry, Cleaning and Disinfecting Supplies	87 13		
Purchase of Equipment.			
1608 Office Equipment	5 70		
1610 General Plant Equipment	141 90		
Materials.			
1611 General Plant Materials	191 78		
Contract or Open Order Service, Transportation.			
1614 Expressage and Deliveries	71 59		
Communication.			
1615 Telegraph, Cable and Messenger Service	42 39		
1616 General Plant Service	157 50		
1617 Contingencies	36 25		
TO			
Supplies.			
1604 Office Supplies	\$80 05		
1606 Refrigerating Supplies	21 23		
1607 General Plant Supplies	135 99		
Purchase of Equipment.			
1609 Wearing Apparel	4 35		
Contract or Open Order Service.			
1612 General Repairs	594 14		
Light, Heat and Power.			
1613 Lighting Public Buildings	90 96		
The transfers are required to provide funds in appropriate accounts for the payment of outstanding claims for 1913, the greater part being for repairs to machinery and piping.			
I recommend the adoption of the attached resolutions approving the request.			
Respectfully,	WM. A. PRENDERGAST, Comptroller.		
The following resolution was offered:			
Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated for the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1913, as follows:			
FROM			
Supplies.			
1602 Forage and Veterinary Supplies	\$176 61		
1603 Fuel Supplies	15 87		
1605 Laundry, Cleaning and Disinfecting Supplies	87 13		
Purchase of Equipment.			
1608 Office Equipment	5 70		
1610 General Plant Equipment	141 90		
Materials.			
1611 General Plant Materials	191 78		
Contract or Open Order Service, Transportation.			
1614 Expressage and Deliveries	71 59		
Communication.			
1615 Telegraph, Cable and Messenger Service	42 39		
1616 General Plant Service	157 50		
1617 Contingencies	36 25		
TO			
Supplies.			
1604 Office Supplies	\$80 05		
1606 Refrigerating Supplies	21 23		
1607 General Plant Supplies	135 99		
Purchase of Equipment.			
1609 Wearing Apparel	4 35		
Contract or Open Order Service.			
1612 General Repairs	594 14		
Light, Heat and Power.			
1613 Lighting Public Buildings	90 96		
The transfers are required to provide funds in appropriate accounts for the payment of outstanding claims for 1913, the greater part being for repairs to machinery and piping.			
I recommend the adoption of the attached resolutions approving the request.			
Respectfully,	WM. A. PRENDERGAST, Comptroller.		
The following resolution was offered:			
Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated for the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1913, as follows:			
FROM			
Supplies.			
1602 Forage and Veterinary Supplies	\$176 61		
1603 Fuel Supplies	15 87		
1605 Laundry, Cleaning and Disinfecting Supplies	87 13		
Purchase of Equipment.			
1608 Office Equipment	5 70		
1610 General Plant Equipment	141 90		
Materials.			
1611 General Plant Materials	191 78		
Contract or Open Order Service, Transportation.			
1614 Expressage and Deliveries	71 59		
Communication.			
1615 Telegraph, Cable and Messenger Service	42 39		
1616 General Plant Service	157 50		
1617 Contingencies	36 25		
TO			
Supplies.			
1604 Office Supplies	\$80 05		
1606 Refrigerating Supplies	21 23		
1607 General Plant Supplies	135 99		
Purchase of Equipment.			
1609 Wearing Apparel	4 35		
Contract or Open Order Service.			
1612 General Repairs	594 14		
Light, Heat and Power.			
1613 Lighting Public Buildings	90 96		
The transfers are required to provide funds in appropriate accounts for the payment of outstanding claims for 1913, the greater part being for repairs to machinery and piping.			
I recommend the adoption of the attached resolutions approving the request.			
Respectfully,	WM. A. PRENDERGAST, Comptroller.		
The following resolution was offered:			
Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated for the Department of Parks, Boroughs of Manhattan and Richmond, for the year 1913, as follows:			
FROM			
Supplies.			
1602 Forage and Veterinary Supplies	\$176 61		
1603 Fuel Supplies	15 87		
1605 Laundry, Cleaning and Disinfecting Supplies	87 13		
Purchase of Equipment.			
1608 Office Equipment	5 70		
1610 General Plant Equipment	141 90		
Materials.			
1611 General Plant Materials	191 78		
Contract or Open Order Service, Transportation.			
1614 Expressage and Deliveries	71 59		
			</

Code No.	Schedule Line	Schedule and Cash Transfer.	
		Increase.	Decrease.
376	Engineer, 2 at \$6 per day (365 days)	\$2,190 00	
	Engineer, 1 at \$5 per day (365 days)	\$1,825 00	
	Balance unassigned	365 00	
		\$2,190 00	\$2,190 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of Manhattan, for the year 1914, to be effective as of January 1, 1914, as follows:

Wages, Regular Employees, Care of Public Buildings and Offices.

376	Light, Heat and Power—	
	Engineer, 1 at \$6 per day (365 days)	\$2,190 00
	Engineer, 1 at \$5 per day (365 days)	1,825 00
	*Engineer, 1 at \$5 per day (365 days)	1,825 00
	Engineer, 33 at \$4.50 per day (365 days)	54,202 50
	Fireman, 64 at \$3 per day (365 days)	70,080 00
	Oiler, 4 at \$3 per day (365 days)	4,380 00
	Balance unassigned	365 00
		\$134,867 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

President, Borough of The Bronx—Modification of Schedule (Cal. No. 30).

The Secretary presented the following:

City of New York, President of the Borough of The Bronx, 3d Avenue and 177th Street, Office of the President, January 12, 1914.

To the Honorable the Board of Estimate and Apportionment:

Gentlemen—Request is hereby respectfully made for a modification of the schedule lines supporting the appropriation made to this office for the year 1914, as of January 1, 1914, as follows:

PRESIDENT, BOROUGH OF THE BRONX.

Personal Service, Engineering.

460TCS	Tax Levy, Corporate Stock and Special and Trust Fund Force—	
	Chief Engineer of Sewers and Highways	\$6,000 00
	Principal Assistant Engineer	4,500 00
	Principal Assistant Engineer, 2 at \$4,000	8,000 00
	Consulting Topographical Engineer	4,000 00
	Assistant Engineer	4,000 00
	Assistant Engineer, 2 at \$3,300	6,600 00
	Assistant Engineer, 4 at \$3,000	12,000 00
	Assistant Engineer, 1 at \$2,700	2,700 00
	Assistant Engineer, 8 at \$2,500	20,000 00
	Assistant Engineer	2,400 00
	Assistant Engineer, 6 at \$2,250	13,500 00
	Assistant Engineer, 8 at \$2,100	16,800 00
	Assistant Engineer, 7 at \$1,950	13,650 00
	Assistant Engineer, 5 at \$1,800	9,000 00
	Assistant Engineer, 2 at \$1,650	3,300 00
	Transitman, 2 at \$1,800	3,600 00
	Transitman, 4 at \$1,650	6,600 00
	Transitman, 11 at \$1,500	16,500 00
	Transitman	1,350 00
	Transitman and Computer, 5 at \$1,650	8,250 00
	Transitman and Computer	1,500 00
	Computer	1,800 00
	Computer	1,500 00
	Mechanical Draftsman, 4 at \$1,800	7,200 00
	Mechanical Draftsman	1,650 00
	Structural Steel Draftsman, 4 at \$1,800	7,200 00
	Topographical Draftsman, 2 at \$1,950	3,900 00
	Topographical Draftsman, 5 at \$1,800	9,000 00
	Topographical Draftsman, 18 at \$1,650	29,700 00
	Topographical Draftsman, 14 at \$1,500	21,000 00
	Topographical Draftsman, 6 at \$1,350	8,100 00
	Leveler	1,650 00
	Leveler, 7 at \$1,500	10,500 00
	Leveler, 2 at \$1,350	2,700 00
	Rodman, 15 at \$1,350	20,250 00
	Rodman, 10 at \$1,200	12,000 00
	Rodman, 7 at \$1,050	7,350 00
	Rodman, 5 at \$900	4,500 00
	Chairman and Rodman, 5 at \$1,350	6,750 00
	Chairman and Rodman, 5 at \$1,200	6,000 00
	Axeman, 4 at \$1,050	4,200 00
	Axeman, 4 at \$900	3,600 00
	Axeman, 8 at \$780	6,240 00
	Axeman, 6 at \$720	4,320 00
	Clerk	2,250 00
	Clerk	1,650 00
	Clerk, 3 at \$1,500	4,500 00
	Clerk	1,350 00
	Clerk	900 00
	Clerk	600 00
	Clerk, 2 at \$480	960 00
	Clerk	300 00
	Stenographer and Typewriter	1,500 00
	Stenographer and Typewriter, 3 at \$1,200	3,600 00
	Typewriting Copyist, 2 at \$1,200	2,400 00
	Inspector of Sewer Connections, 3 at \$1,500	4,500 00
	Inspector of Cement Tests, 2 at \$1,350	2,700 00
	Inspector, 3 at \$1,500	4,500 00
	Searcher	1,500 00
	Junior Chemist, 2 at \$1,200	2,400 00
	Balance unassigned	1,380 00
	Schedule Total	\$383,250 00
	Tax Levy Allowance	\$165,680 86
	Corporate Stock and Special and Trust Fund Allowance	217,569 14
		\$383,250 00

The changes in the above modification from the schedule lines existing in the Budget effective as of January 1, 1914, are as follows:

The line one Assistant Engineer, at \$3,300, changed to read two Assistant Engineers, at \$3,300, in order to provide for the increase in salary of Elmore F. Austin, Assistant Engineer, from \$3,000 to \$3,300, which became effective December 1, 1913, and was provided for in the last modification of said year.

The following vacant positions are decreased to the extent of \$1,380, which is scheduled as an unassigned balance:

1 Assistant Engineer, at \$2,700, reduced to \$2,250	\$450 00
1 Transitman, at \$1,500, reduced to \$1,350	150 00
2 Topographical Draftsmen, at \$1,500, reduced to \$1,350	300 00
1 Clerk, at \$480, reduced to \$300	180 00
1 Stenographer and Typewriter, at \$1,500, reduced to \$1,200	300 00

\$1,380 00

Respectfully, DOUGLAS MATHEWSON, President, Borough of The Bronx.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 21, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 12, 1914, the President of the Borough of The Bronx requested modification of salary schedule for 1914 entitled "Engineering, No. 460TCS, Tax Levy, Corporate Stock and Special and Trust Fund Force." In connection therewith I report as follows:

It is proposed to change the lines Assistant Engineer at \$3,300 and Assistant Engineer, 5 at \$3,000, to read Assistant Engineer, 2 at \$3,300, and Assistant Engineer, 4 at \$3,000; the line Transitman, 3 at \$1,800, to read Transitman, 2 at \$1,800, and to add the line Transitman, at \$1,350.

The purpose is to provide for an increase from \$3,000 to \$3,300 in the salary of Elmore F. Austin, which has been effective with the approval of your Board since December 1, 1913. The remaining \$150 will be scheduled as balance unassigned.

It is also proposed to reduce the salaries of several vacant positions and place the amounts reduced as balance unassigned. The following changes are proposed: The lines Assistant Engineer, 2 at \$2,700, and Assistant Engineer, 5 at \$2,250, are changed to read Assistant Engineer, at \$2,700, and Assistant Engineer, 6 at \$2,250, a reduction of \$450; the lines Topographical Draftsman, 16 at \$1,500, and Topographical Draftsman, 4 at \$1,350, to read Topographical Draftsman, 14 at \$1,500, and Topographical Draftsman, 6 at \$1,350, a reduction of \$300; the lines Clerk, 3 at \$480, to read Clerk, 2 at \$480, and adding the line Clerk, at \$300, a reduction of \$180; the line Stenographer and Typewriter, at \$1,500, to read Stenographer and Typewriter, at \$1,200, a reduction of \$300, and making a total reduction in these lines of \$1,380.

The line item changes in detail are:

Schedule Line	Schedule Transfer.		Cash Transfer.	
	Increase.	Decrease.	Increase.	Decrease.
Assistant Engineer, at \$3,300	\$3,300 00		\$3,300 00	
Assistant Engineer, at \$3,000		\$3,000 00		\$3,000 00
Assistant Engineer, at \$2,700		2,700 00		2,700 00
Assistant Engineer, at \$2,250	2,250 00		2,250 00	
Transitman, at \$1,800		1,800 00		1,800 00
Transitman, at \$1,350	1,350 00		1,350 00	
Topographical Draftsman, at \$1,500		3,000 00		3,000 00
Topographical Draftsman, at \$1,350	2,700 00		2,700 00	
Clerk, at \$480		480 00		480 00
Clerk, at \$300	300 00		300 00	
Stenographer and Typewriter, at \$1,500		1,500 00		1,500 00
Stenographer and Typewriter, at \$1,200	1,200 00		1,200 00	
Balance unassigned	1,380 00		1,380 00	
Total	\$12,480 00	\$12,480 00	\$12,480 00	\$12,480 00

I recommend the adoption of the attached resolution granting the request.
Respectfully,
WM. A. PRENDERGAST, Comptroller.
The following resolution was offered:
Resolved, That the Board of Estimate and Apportionment hereby approves the schedule, as revised, for the office of the President of the Borough of The Bronx, for the year 1914, as follows:
<i>Personal Service, Salaries, Regular Employees, Engineering.</i>
460TCS Tax Levy,

men and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

National Guard and Naval Militia, New York County—Modification of Schedules (Cal. No. 31).

The Secretary presented the following:

Headquarters First Regiment, Field Artillery, N. G., N. Y., Armory, 68th Street and Broadway, New York City, December 22, 1913.

From the Commanding Officer, First Field Artillery to the Comptroller of The City of New York; subject, Appointments of Two Laborers (original).

1. Pursuant to paragraph 188 of the Military Law of the State of New York and the certificate of the Major General, Commanding Division, National Guard, New York, I have appointed James J. McQuillan and Thomas Forrester as Laborers at \$3 per day each. To date from December 22, 1913.

James J. McQuillan resides at 79 East 12th street.

Thomas Forrester resides at 1505 3d avenue.

2. The certificate of the Major General is attached to this communication.

H. H. ROGERS, Colonel.

Headquarters, Division, National Guard, New York, Municipal Building, Chambers Street, New York City, December 8, 1913.

From Commanding General, Division, N. G., N. Y., to Comptroller, City of New York; subject: Certificate, two additional Laborers, First Field Artillery, N. G., N. Y.

1. Pursuant to M. L. 188, I hereby certify that the armory of the First Field Artillery, N. G., N. Y., located at 68th street and Broadway, New York City, requires, and that there is necessity for it, two additional Laborers.

2. That the armory consists of 95,509 square feet, and that, therefore, two additional Laborers are necessary to provide for the proper care and cleanliness of the armory and the property therein deposited.

JOHN G. EDDY, Brigadier General, Commanding.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 14, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On December 22, 1913, the Commanding Officer of the First Regiment, Field Artillery, N. G., N. Y., requested that provision be made for the compensation of two additional Laborers at the rate of \$3 per day, from December 22, 1913, to December 31, 1914. In connection therewith I report as follows:

The First Regiment of Field Artillery was formerly quartered in an armory at No. 56 West 66th street, Manhattan, but was recently moved to the old armory of the Twenty-second Regiment at 68th street and Broadway. The quarters formerly occupied by the organization covered an area of 42,679 square feet of floor surface. The Commanding General, Division, National Guard, on December 8, 1913, certified that the armory now occupied by the organization consists of 95,509 square feet, and that, on account of the increased floor surface, two additional Laborers are necessary to provide for the proper care and cleanliness of the armory and of the property therein.

Section 188 of the Military Law, as amended by chapter 558 of the Laws of 1913, provides for the employment of Laborers in armories and reads, in part, as follows:

"To provide for the proper care and cleanliness of armories and of the property therein deposited, the officer having control and charge of an armory or arsenal may appoint laborers as follows: For armories or arsenals having ten thousand square feet or less of floor surface, one laborer; when the floor surface exceeds twenty thousand square feet two laborers; and for each twenty thousand in excess of twenty thousand an additional laborer * * *. In armories of the quartermaster corps and field artillery, in addition to the foregoing, there shall be allowed one laborer for said corps and for each battery of field artillery, for the care of field artillery harness and equipment. Before any such appointment is made, the necessity for the employment of such laborer or laborers shall be certified by the commanding officer of the division * * *. A certificate of the number of feet of floor surface of each armory or arsenal in which laborers are appointed shall be made by the engineer of the division or the brigade and approved by the commanding officer of the division * * *."

Pursuant to the provisions of this section, the Commanding General, Division, National Guard, approved the certificate of December 8, 1913, as stated above.

As the armory of the First Regiment of Field Artillery consists of 95,509 square feet of floor surface, and, as four batteries of field artillery are quartered in this armory, the Commanding Officer is empowered, pursuant to the above section of the Military Law, to employ nine Laborers. He states that at present he intends to employ seven. As the 1913 schedule for the organization provides for only five Laborers and the Budget for 1914 the same number, it will be necessary to provide for the compensation of the two additional Laborers by the issue of special revenue bonds, as follows:

Laborer, 2 at \$3 per day, from December 22 at December 31, 1913..... \$60 00

Laborer, 2 at \$3 per day, from January 1 to December 31, 1914..... 2,190 00

\$2,250 00

Section 189 of the Military Law provides that such compensation shall be a county charge upon the county in which such armory or arsenal is situated, and sub-division 7 of section 188 of the Greater New York Charter authorizes the Comptroller to issue special revenue bonds to provide for the payment of charges by counties wholly included within the limits of The City of New York. Special revenue bonds to the amount of \$2,250 will be issued to provide for the compensation of the employees as requested.

I recommend the adoption of the attached resolution, modifying the schedule of the organization to include the additional Laborers in order to permit a proper audit.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the National Guard and Naval Militia, County of New York, for the year 1914, to be effective as of December 22, 1913, as follows:

NATIONAL GUARD AND NAVAL MILITIA, COUNTY OF NEW YORK.

Personal Service, Wages, Regular Employees.

	Paid from Tax Levy	Paid from Special Approp- riation.	Total Bonds.
3712 First Regiment, Field Artillery—			
Armorer, 4 at \$4 per day (365 days).....	\$4,380 00	\$1,460 00	\$5,840 00
Janitor, 1 at \$4 per day (365 days).....	1,460 00	.....	1,460 00
Engineer, 1 at \$4 per day (365 days).....	1,460 00	.....	1,460 00
Assistant Engineer, 1 at \$4 per day (365 days).....	1,460 00	.....	1,460 00
Chief Laborer for the Care of Horses, 1 at \$3 per day (365 days).....	1,095 00	.....	1,095 00
Laborer for the Care of Horses, 9 at \$3 per day (365 days).....	7,665 00	2,190 00	9,855 00
Expert Laborer, 4 at \$3 per day (365 days).....	3,285 00	1,095 00	4,380 00
Laborer, 7 at \$3 per day (365 days).....	5,475 00	2,190 00	7,665 00
Schedule total	\$33,215 00		
Tax Levy Allowance	\$26,280 00		
Rate of Special Revenue Bond Allowance.....	6,935 00		
Total allowance	\$33,215 00		

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the National Guard and Naval Militia, County of New York, for the year 1914, to be effective as of January 1, 1914, as follows:

NATIONAL GUARD AND NAVAL MILITIA, COUNTY OF NEW YORK.

Personal Service, Wages, Regular Employees.

	Paid from Tax Levy	Paid from Special Approp- riation.	Total Bonds.
3152 First Regiment, Field Artillery—			
Armorer, 4 at \$4 per day (365 days).....	\$4,380 00	\$1,460 00	\$5,840 00
Janitor, 1 at \$4 per day (365 days).....	1,460 00	.....	1,460 00
Engineer, 1 at \$4 per day (365 days).....	1,460 00	.....	1,460 00
Assistant Engineer, 1 at \$4 per day (365 days).....	1,460 00	.....	1,460 00
Expert Laborer, 3 at \$3 per day (365 days).....	3,285 00	.....	3,285 00
Chief Laborer, Care of Horses, 1 at \$3 per day (365 days).....	1,095 00	.....	1,095 00
Laborer, Care of Horses, 9 at \$3 per day (365 days).....	9,855 00	.....	9,855 00
Laborer, 7 at \$3 per day (365 days).....	5,475 00	\$2,190 00	7,665 00
Schedule total			\$30,660 00
Tax Levy Allowance			\$28,470 00
Special Revenue Bond Allowance			2,190 00
Total allowance			\$30,660 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

National Guard and Naval Militia, New York County—Modification of Schedules (Cal. No. 32).

The Secretary presented the following:

Headquarters First Regiment Field Artillery, N. G., N. Y., Armory, 68th Street and Broadway, New York City, January 13, 1914.

From the Commanding Officer to Hon. William A. Prendergast, Comptroller, City of New York; subject, providing funds for salary of armory employees.

1. I have just been informed that there has been no provision made for paying the salary of 1 Armorer and 1 Expert Laborer for Battery "B" of this regiment for the year 1914.

2. Above men were appointed on October 16, 1913, and have been paid from the Revenue Bond Fund up to and including December 31, 1913.

3. I therefore respectfully request that provision be made for sufficient funds to pay these two men for the year commencing January 1, 1914.

H. H. ROGERS, Colonel.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 20, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 13, 1914, the Commanding Officer of the First Regiment of Field Artillery, National Guard, New York, requested that provision be made for the compensation of an Armorer at \$4 per day and an Expert Laborer at \$3 per day for the armory of Battery "B" of that regiment, for the year 1914. In connection therewith I report as follows:

Battery "B" of the First Regiment of Field Artillery is a new battery organized pursuant to the provisions of General Order No. 16, issued from the office of the Adjutant General on May 19, 1913. The organization has been assigned quarters in the same armories as Batteries "D," "E" and "F" of the First Regiment, located at 68th street and Columbus avenue.

Section 187 of the Military Law, as amended by chapter 558 of the Laws of 1913, provides for the employment of Armormen, and reads, in part, as follows:

"Where a field hospital, an ambulance company, a company of signal corps, a troop, battery, separate division, or the headquarters of the division, headquarters of the naval militia of a brigade, of a regiment or of a battalion not part of a regiment, occupies a portion of an armory or state arsenal, each shall be entitled to an armorer * * * who shall be appointed by its respective commanding officer, and such headquarters and quarters shall be considered an independent armory upon the approval and certificate of the major general, the commanding officer of the naval militia or commanding officer of the brigade to whose command the organization occupying such armory belongs."

On December 8, 1913, the Commanding General, Division National Guard, New York, certified that the "quarters occupied by Battery 'B' First Field Artillery, N. G., N. Y., is considered an independent armory," and that there is necessity for the employment of one Armorer. Pursuant to the provisions of the law, the Commanding Officer of the First Regiment appointed an Armorer for Battery "B."

Section 188 of the Military Law, as amended, provides for the employment of Laborers, and reads, in part, as follows:

"To provide for the proper care and cleanliness of armories or arsenals and of the property therein deposited, the officer having control and charge of armory or arsenal may appoint laborers as follows: * * * In an armory occupied by coast artillery, and to each armory occupied by a battery or an organization of the signal corps in addition to the above, one expert laborer, competent to care for artillery or signal implements, instruments and equipment."

The Commanding General having certified that the quarters of Battery "B" is a separate and independent armory, and having also certified, on December 8, 1913, that necessity exists for the employment of an Expert Laborer, the Commanding Officer of the First Regiment appointed an Expert Laborer competent to care for artillery implements, instruments and equipment.

Section 189 of the Military Law, as amended, provides for the compensation of employees in armories and fixes the compensation of Armormen at \$4 per day and Expert Laborers at \$3 per day. This section also provides that such compensation shall be a county charge upon the county in which such armory or arsenal is situated.

The employees were appointed by the Commanding Officer on October 16, 1913. Under date of December 24, 1913, your Board adopted a resolution revising the schedule of the organization for 1913, to include the additional employees and the Comptroller issued special revenue bonds, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter, to compensate them from October 16 to December 31, 1913. As no request for these employees was made in the departmental estimate of the organization for 1914 no provision has been made for their compensation this year.

The Comptroller, therefore, will issue \$2,555 special revenue bonds pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter to provide for the compensation of these employees for the year 1914, as follows:

Armorer, 1 at \$4 per day, 365 days..... \$1,460 00

Expert Laborer, 1 at \$3 per day, 365 days..... 1,095 00

\$2,555 00

I recommend the adoption of the attached resolution modifying the schedule to permit a proper audit. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the National Guard and Naval Militia, County of New York, for the year 1914, to be effective as of January 1, 1914, as follows:

NATIONAL GUARD AND NAVAL MILITIA, COUNTY OF NEW YORK.

Personal Service, Wages Regular Employees.

	Paid from Tax Levy	Paid from Special Approp- riation.	Total Bonds.

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	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.	
Assistant Engineer, 1 at \$4 per day, 365 days	1,460 00	.....	1,460 00	Deputy Assistant District Attorney, 3 at \$3,000	9,000 00	.....	9,000 00
Expert Laborer, 4 at \$3 per day, 365 days..	3,285 00	1,095 00	4,380 00	Chief Clerk	2,500 00	.....	2,500 00
Chief Laborer, Care of Horses, 1 at \$3 per day, 365 days ..	1,095 00	.....	1,095 00	Secretary	2,000 00	.....	2,000 00
Laborer, Care of Horses, 9 at \$3 per day, 365 days ..	9,855 00	.....	9,855 00	Calendar Clerk	.....	1,200 00	1,200 00
Laborer, 7 at \$3 per day, 365 days.....	5,475 00	2,190 00	7,665 00	Indictment Clerk	.....	1,500 00	1,500 00
Schedule total .....	.....	.....	\$33,215 00	Information Clerk	.....	1,500 00	1,500 00
Tax levy allowance .....	.....	.....	28,470 00	Clerk	.....	1,200 00	1,200 00
Special revenue bond allowance .....	.....	.....	4,745 00	Bail and Forfeited Recognizance Clerk...	.....	2,000 00	2,000 00
Total allowance .....	.....	.....	\$33,215 00	Telephone Operator	.....	600 00	600 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

District Attorney, Bronx County—Modification of Schedule (Cal. No. 33).

The Secretary presented the following:

District Attorney's Office, County of Bronx, January 19, 1914.
Hon. WILLIAM A. PRENDERGAST, Comptroller of The City of New York, Municipal Building, New York City:

Dear Sir—I hereby request that funds be provided for the payment of the salaries of the following persons appointed by me, pursuant to the provisions of chapter 825 of the Laws of 1913 at the annual salaries indicated:

Name and Title.	Salary.	Date of Appointment.
Martin A. Healy, Stenographer.....	\$1,800 00	January 1, 1914
Thomas A. Cryan, Stenographer.....	1,500 00	January 1, 1914
Edward F. Broderick, Stenographer.....	1,200 00	January 8, 1914
Harry W. Cook, Warden to Grand Jury.....	1,500 00	January 1, 1914
Joseph Pistone, Interpreter	1,500 00	January 1, 1914
Benjamin Hirsch, Messenger.....	1,500 00	January 1, 1914
John J. Lyons, County Detective.....	1,500 00	January 2, 1914
Sigmund Fox, County Detective.....	1,500 00	January 8, 1914
John F. Maher, County Detective.....	1,500 00	January 1, 1914
Eugene McIntosh, Process Server.....	1,200 00	January 1, 1914

Respectfully yours,
FRANCIS MARTIN, District Attorney.
Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 22, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 19, 1914, the District Attorney of Bronx County requested an appropriation to meet the 1914 salaries of the additional positions established for his office. In connection therewith I report as follows:

On December 31, 1913, the Board of Estimate and Apportionment adopted a resolution, pursuant to the provisions of chapter 548 of the Laws of 1912, as amended by chapter 266 of the Laws of 1913, establishing the following positions for the office of the District Attorney:

Title.	Rate Per Annum.	Number of Incumbents.
Calendar Clerk	\$1,200 00	1
Indictment Clerk	1,500 00	1
Information Clerk	1,500 00	1
Clerk	1,200 00	1
Bail and Forfeited Recognizance Clerk.....	2,000 00	1
Stenographer to Grand Jury, per diem.....	10 00	1
Telephone Operator	600 00	1

The above stated annual salaries amount to \$8,000, and, based on an estimated service of one hundred days for the Stenographer to the Grand Jury it will require the sum of \$9,000 to meet the said salaries for 1914.

On January 19, 1914, the District Attorney requested funds to pay the salaries of the following persons appointed by him, pursuant to the provisions of chapter 825 of the Laws of 1913:

Name and Title.	Salary.	Appointed.
Martin A. Healy, Stenographer.....	\$1,800 00	January 1, 1914
Thomas A. Cryan, Stenographer	1,500 00	January 1, 1914
Edward F. Broderick, Stenographer.....	1,200 00	January 8, 1914
Harry W. Cook, Warden to Grand Jury.....	1,500 00	January 1, 1914
Joseph Pistone, Interpreter	1,500 00	January 1, 1914
Benjamin Hirsch, Messenger.....	1,500 00	January 1, 1914
John J. Lyons, County Detective.....	1,500 00	January 2, 1914
Sigmund Fox, County Detective.....	1,500 00	January 8, 1914
John F. Maher, County Detective.....	1,500 00	January 1, 1914
Eugene McIntosh, Process Server.....	1,200 00	January 1, 1914

Chapter 825 of the Laws of 1913 provides in part as follows:
" * * * The district attorney of said county of Bronx is hereby authorized and empowered to appoint, and at pleasure remove, three stenographers, who shall receive as compensation a salary not to exceed eighteen hundred dollars each per annum, to be fixed and determined by the said district attorney and which shall be a county charge. The said district attorney shall also appoint, and at pleasure remove, one messenger, one doorkeeper, one grand jury clerk, one warden of the grand jury, one interpreter and two process servers, and they shall each receive as compensation a salary not to exceed fifteen hundred dollars per annum, to be fixed and determined by the said district attorney, and which shall be a county charge. There shall be officers known as county detectives in the county of Bronx, and such officers are hereby created. * * * The said officers shall be appointed by the said district attorney. * * * The number of said officers shall not be more than eight, and the district attorney shall fix and determine their compensation, which shall not exceed the sum of fifteen hundred dollars per annum each, to be paid as a county charge."

The sum of \$14,645.16 will be necessary to pay the 1914 salaries of the persons appointed by the District Attorney, under the authority of chapter 825 of the Laws of 1913.

All the salaries herein mentioned are mandatory county charges, and provision for the payment of the same will be made by the Comptroller in the sum of \$23,645.16, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

I recommend the adoption of the attached resolution, revising the appropriate salary schedule to include the new positions. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the District Attorney, Bronx County, for the year 1914, to be effective January 1, 1914, as follows:

DISTRICT ATTORNEY, BRONX COUNTY.

Personal Service.

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
3260 Salaries Regular Employees—			
District Attorney	\$10,000 00	.....	\$10,000 00
Assistant District Attorney, 5 at \$5,000...	25,000 00	.....	25,000 00

	Paid from Tax Levy Appropriation.	Paid from Special Revenue Bonds.	Total.
Deputy Assistant District Attorney, 3 at \$3,000	9,000 00	.....	9,000 00
Chief Clerk	2,500 00	.....	2,500 00
Secretary	2,000 00	.....	2,000 00
Calendar Clerk .....	.....	1,200 00	1,200 00
Indictment Clerk .....	.....	1,500 00	1,500 00
Information Clerk .....	.....	1,500 00	1,500 00
Clerk .....	.....	1,200 00	1,200 00
Bail and Forfeited Recognizance Clerk...	.....	2,000 00	2,000 00
Telephone Operator .....	.....	600 00	600 00
Stenographer .....	.....	1,800 00	1,800 00
Stenographer .....	.....	1,500 00	1,500 00
Stenographer .....	.....	1,200 00	1,200 00
Warden of the Grand Jury.....	.....	1,500 00	1,500 00
Interpreter .....	.....	1,500 00	1,500 00
Messenger .....	.....	1,500 00	1,500 00
County Detective, 3 at \$1,500.....	4,500 00	.....	4,500 00
Process Server .....	.....	1,200 00	1,200 00

	Schedule total	\$71,200 00
Tax Levy allowance.....	\$48,500 00
Rate of Special Revenue Bond allowance.....	22,700 00
Total allowance	\$71,200 00
3260 1/2 R Wages, Temporary Employees—	
Stenographer to Grand Jury, \$10 per diem (100 days).....	\$1,000 00
Special Revenue Bond allowance.....	\$1,000 00

Which was adopted by the following vote:
Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

President, Borough of Richmond—Modification of Schedule (Cal. No. 34).

The Secretary presented the following:

The City of New York, Office of the President of the Borough of Richmond, Borough Hall, New Brighton, New York City, December 31, 1913.

Honorable Board of Estimate and Apportionment, 279 Broadway, New York City:

Gentlemen—I would request the modification of the salary schedule of the Bureau of Engineering Construction of this office for the year 1914, so that this schedule will appear as follows:

	Engineering, Construction.
756TCS Tax Levy, Corporate Stock and Special and Trust Fund Force—	
Engineer	\$5,000 00
Assistant Engineer	3,000 00
Assistant Engineer, 2 at \$2,700.....	5,400 00
Assistant Engineer, 2 at \$2,400.....	4,800 00
Assistant Engineer, 2 at \$2,250.....	4,500 00

Axeman, 3 at \$900.....	2,700 00
Searcher	1,200 00
Topographical Draftsman, 3 at \$1,800.....	5,400 00
Topographical Draftsman, 4 at \$1,650.....	6,600 00
Topographical Draftsman	1,200 00
Clerk	1,800 00
Clerk	1,650 00
Stenographer and Typewriter	1,650 00
Typewriting Copyist	900 00
Messenger	1,200 00
Automobile Engineman	1,200 00
Automobile Engineman	1,050 00
Foreman	1,050 00
 Schedule total	 \$80,450 00
Tax levy allowance	36,650 80
Corporate Stock allowance.....	32,799 20
Special and Trust Fund allowance.....	11,000 00
 Total allowance	 \$80,450 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Commissioner of Jurors, New York County—Modification of Schedule (Cal. No. 35).

The Secretary presented the following:

Office of Commissioner of Jurors, County of New York, Stewart Building, Room 127, New York, January 2, 1914.

The Honorable the Board of Estimate and Apportionment, 277 Broadway, New York City:

Dear Sirs—Pursuant to section 1 of chapter 602 of the Laws of 1901 the Justices of the Appellate Division of the Supreme Court in the First Department have, by an order, a copy of which is transmitted herewith, fixed the salary of Harry J. Callahan, of 235 5th street, New York City, a Clerk in this office, at fifteen hundred and thirty dollars (\$1,530) per annum, from and after January 1, 1914. Under the above mentioned act the salary so fixed is mandatory.

I respectfully request that the schedule lines supporting code No. 3115, Personal Service, Salaries Regular Employees, for the year 1914, be changed to read as follows:

Commissioner	\$6,000 00
Assistant Commissioner	3,000 00
Secretary	3,000 00
Clerk and Typewriter	2,000 00
Clerk, 3 at \$1,650	4,950 00
Clerk, 6 at \$1,530	9,180 00
Clerk, 8 at \$1,400	11,200 00
Messenger as Notice Server, 8 at \$1,400.....	11,200 00
Messenger, 2 at \$1,400	2,800 00
 Schedule total	 \$53,330 00

This change will increase the schedule total over the present allowance by thirty dollars (\$30). Very respectfully,

THOMAS ALLISON, Commissioner of Jurors, County of New York.

In pursuance of section 1 of chapter 602 of the Laws of 1901 the Justices of the Appellate Division of the Supreme Court of the State of New York, in the First Department, do hereby fix the salary or compensation of Harry J. Callahan, of 235 5th street, Borough of Manhattan, City and County of New York, Clerk in the office of the Commissioner of Jurors for the County of New York, at the rate of fifteen hundred and thirty dollars (\$1,530) per annum, from and after the 1st day of January, 1914.

GEO. L. INGRAHAM, CHESTER B. McLAUGHLIN, FRANK C. LAUGHLIN, JOHN PROCTOR CLARKE, FRANCIS M. SCOTT, VICTOR J. DOWLING, HENRY D. HOTCHKISS.

Dated New York, November 19, 1913.

The City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 20, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 2, 1914, the Commissioner of Jurors of New York County requested modification of the 1914 salary schedule for the office to provide for an increase in salary of a Clerk in the office. In connection therewith I report as follows:

On November 19, 1913, the Justices of the Supreme Court, Appellate Division, First Department, filed an order increasing the salary of Harry J. Callahan, Clerk in the office of the Commissioner of Jurors of New York County, from \$1,500 to \$1,530 per annum. The order makes the increase effective on January 1, 1914. The action of the Justices was taken pursuant to the provisions of section 1 of chapter 602 of the Laws of 1901, which provides in part as follows:

"Section 1. There shall be a commissioner of jurors in each county of the state having a population of one million or more, * * * The salaries or compensation of such assistant commissioner, clerks, stenographers and messengers shall be fixed by the justices of the appellate division, or a majority of them."

Payment of the increase of the Clerk's salary being a mandatory County charge provision for the same will be made by the Comptroller in the necessary sum of \$30, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

I recommend the adoption of the attached resolution modifying the salary schedule to include the increase. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the Commissioner of Jurors, New York County, for the year 1914, to be effective January 1, 1914, as follows:

COMMISSIONER OF JURORS, NEW YORK COUNTY.

Personal Service.

	Paid from Tax Levy Appro- priation.	Paid from Special Revenue Bonds.	Total.
3115 Salaries Regular Employees—			
Commissioner	\$6,000 00	.....	\$6,000 00
Assistant Commissioner	3,000 00	.....	3,000 00
Secretary	3,000 00	.....	3,000 00
Clerk and Typewriter	2,000 00	.....	2,000 00
Clerk, 3 at \$1,650.....	4,950 00	.....	4,950 00
Clerk, 5 at \$1,530.....	7,650 00	.....	7,650 00
Clerk	1,500 00	\$30 00	1,530 00
Clerk, 8 at \$1,400.....	11,200 00	.....	11,200 00
Messenger (as Notice Server), 8 at \$1,400	11,200 00	.....	11,200 00
Messenger, 2 at \$1,400.....	2,800 00	.....	2,800 00
 Schedule total	 \$53,330 00		
Tax levy allowance.....	\$53,300 00		
Special revenue bond allowance.....	\$30 00		
			\$53,330 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Health—Modification of Schedules and Transfer of Appropriation (Cal. No. 36).

The Secretary presented the following:

Department of Health of The City of New York, Borough of Manhattan, Centre and Walker Streets, New York, January 14, 1914.

Hon. Jos. HAAG, Secretary, Board of Estimate and Apportionment:

Sir—At a meeting of the Board of Health of the Department of Health held January 14, 1914, the following resolution was adopted:

Resolved, That the Board of Estimate and Apportionment be and is hereby respectively requested to approve of the following changes and modifications in the schedules supporting the appropriations made to the Department of Health for Salaries for the year 1914:

Personal Service, Salaries, Regular Employees, Administration.

1820 General—			
Commissioner		\$7,500 00	
General Medical Officer		5,000 00	
Secretary to President		3,000 00	
Stenographer to President		1,200 00	
Auditor		3,000 00	
Medical Inspector, 2 at \$2,550.		5,100 00	
Sanitary Inspector		1,500 00	
Bacteriologist		2,100 00	
Messenger, 2 at \$1,500.....		3,000 00	
Secretary		5,000 00	
Chief Clerk		3,500 00	
Clerk		3,000 00	
Clerk, 5 at \$2,550.....		12,750 00	
Clerk		2,400 00	
Clerk		2,100 00	
Clerk, 5 at \$1,800.....		9,000 00	
Clerk, 6 at \$1,500.....		9,000 00	
Clerk, 9 at \$1,200.....		10,800 00	
Clerk, 12 at \$900.....		10,800 00	
Clerk, 4 at \$750.....		3,000 00	
Clerk, 2 at \$600.....		1,200 00	
Clerk, 4 at \$540.....		2,160 00	
Clerk, 15 at \$480.....		7,200 00	
Clerk, 5 at \$300.....		1,500 00	
Bookkeeper, 6 at \$1,200.....		7,200 00	
Inspector of Foods		1,200 00	
Laboratory Assistant		900 00	
Laboratory Assistant		750 00	
Stenographer and Typewriter		1,200 00	
Stenographer and Typewriter		1,050 00	
Stenographer and Typewriter, 4 at \$900.....		3,600 00	
Stenographer and Typewriter, 2 at \$750.....		1,500 00	
Stenographer and Typewriter		600 00	
Typewriting Copyist, 2 at \$900.....		1,800 00	
Typewriting Copyist, 4 at \$750.....		3,000 00	
Typewriting Copyist, 6 at \$600.....		3,600 00	
Laborer		720 00	
Telephone Switchboard Operator, 8 at \$900.....		7,200 00	
Telephone Switchboard Operator		750 00	
Automobile Engineman, 7 at \$1,200.....		8,400 00	
 Schedule total.....	 \$158,280 00		

Change item, "Clerk, 8 at \$1,200, \$9,600," to read "Clerk, 9 at \$1,200, \$10,800."

Change item "Clerk, 3 at \$750, \$2,250," to read "Clerk, 4 at \$750, \$3,000."

Change item "Clerk, \$600," to read "Clerk, 2 at \$600, \$1,200."

Change item "Clerk, 14 at \$480, \$6,720," to read "Clerk, 15 at \$480, \$7,200."

1821 Care of Buildings and Grounds—			
Foreman of Laborers		\$1,500 00	
Laborer		1,050 00	
Laborer, 5 at \$900.....		4,500 00	
Laborer, 10 at \$780.....		7,800 00	
Laborer, 2 at \$732.....		1,464 00	
Laborer, 6 at \$720.....		4,320 00	
Janitor		750 00	
Cleaner, 29 at \$360.....		10,440 00	
Elevator Attendant, 2 at \$900.....		1,800 00	
 Schedule total	 \$33,624 00		

Item "Laborer, 4 at \$900, \$3,600," to be changed to read "Laborer, 5 at \$900, \$4,500."

Item "Watchman, \$600," to be struck out.

Item "Elevator Attendant, 3 at \$900, \$2,700," to read "Elevator Attendant, 2 at \$900, \$1,800."

1822 Vital Statistics—			

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Hospital Clerk	720 00	Sergeant, 2 at \$1,750.....	3,500 00
Hospital Clerk, 2 at \$600.....	1,200 00	Patrolman, 50 at \$1,400.....	70,000 00
Watchman	720 00	Schedule Total	\$234,930 00
Watchman	600 00	Change item "Medical Inspector, 5 at \$1,200," to read "Medical Inspector, 4 at \$1,200, \$4,800."	
Orderly, 2 at \$600.....	1,200 00	Change item "Sanitary Inspector, 56 at \$1,200," to read "Sanitary Inspector, 57 at \$1,200, \$68,400."	
Helper	720 00	Change item "Clerk, 5 at \$1,200," to read "Clerk, 4 at \$1,200, \$4,800." To 1820.	
Helper	600 00	Strike out "Clerk at \$750." To 1820.	
Helper	360 00	Change item "Clerk, 6 at \$480," to read "Clerk, 5 at \$480, \$2,400." To 1820.	
Domestic, 6 at \$360.....	2,160 00		
Laborer	120 00		
Schedule Total	\$485,520 00		
Change item "Medical Inspector, 143 at \$1,200, \$171,600," to read "Medical Inspector, 142 at \$1,200, \$170,400."			
Change item "Clerk, 2 at \$1,200, \$2,400," to read, "Clerk, 3 at \$1,200, \$3,600."			
Change item "Clerk, 2 at \$750, \$1,500" to read "Clerk, \$750."			
Change item "Clerk, 6 at \$600, \$3,600" to read "Clerk, 7 at \$600, \$4,200."			
Change item "Stenographer and Typewriter, \$750" to read "Stenographer and Typewriter, 2 at \$750, \$1,500."			
Item "Stenographer and Typewriter, \$600" to be struck out.			
1825 Infectious Diseases—			
Medical Inspector	\$3,000 00		
Medical Inspector, 2 at \$2,550.....	5,100 00		
Medical Inspector, 7 at \$1,800.....	12,600 00		
Medical Inspector, 40 at \$1,500.....	60,000 00		
Medical Inspector, 12 at \$1,200.....	14,400 00		
Veterinarian	1,800 00		
Veterinarian, 7 at \$1,200.....	8,400 00		
Bacteriologist	1,500 00		
Bacteriological Diagnostician, 2 at \$1,350.....	2,700 00		
Bacteriological Diagnostician, 2 at \$1,200.....	2,400 00		
Bacteriological Diagnostician	1,050 00		
Hospital Physician, 8 at \$1,200.....	9,600 00		
Attending Physicians, 55 at \$600.....	33,000 00		
Assistant Attending Physician, 10 at \$300.....	3,000 00		
Dentist	1,200 00		
Clerk	2,550 00		
Clerk, 2 at \$1,800.....	3,600 00		
Clerk, 3 at \$1,500.....	4,500 00		
Clerk, 5 at \$1,200.....	6,000 00		
Clerk, 2 at \$1,050.....	2,100 00		
Clerk, 12 at \$900.....	10,800 00		
Clerk, 5 at \$750.....	3,750 00		
Clerk	600 00		
Clerk, 2 at \$540.....	1,080 00		
Clerk, 16 at \$480.....	7,680 00		
Clerk, 5 at \$300.....	1,500 00		
Hospital Clerk	900 00		
Hospital Clerk, 5 at \$750.....	3,750 00		
Hospital Clerk, 4 at \$600.....	2,400 00		
Stenographer and Typewriter	900 00		
Stenographer and Typewriter, 4 at \$750.....	3,000 00		
Stenographer and Typewriter, 4 at \$600.....	2,400 00		
Typewriting Copyist	900 00		
Typewriting Copyist	750 00		
Typewriting Copyist, 6 at \$600.....	3,600 00		
Assistant Director, Bacteriological Laboratory.....	3,000 00		
Assistant Director, Bacteriological Laboratory.....	1,800 00		
Nurse	1,200 00		
Supervising Nurse, 5 at \$1,050.....	5,250 00		
Nurse, 208 at \$900.....	187,200 00		
Social Service Nurse, 4 at \$900.....	3,600 00		
Laboratory Assistant, 3 at \$900.....	2,700 00		
Laboratory Assistant, 5 at \$750.....	3,750 00		
Laboratory Assistant, 13 at \$600.....	7,800 00		
Disinfecter, 7 at \$1,050.....	7,350 00		
Disinfecter, 28 at \$900.....	25,200 00		
Disinfecter, 7 at \$750.....	5,250 00		
Driver	840 00		
Driver, 3 at \$780.....	2,340 00		
Driver, 26 at \$720.....	18,720 00		
Stableman, 7 at \$720.....	5,040 00		
Stableman	600 00		
Foreman of Laborers	1,200 00		
Laborer	900 00		
Laborer, 5 at \$720.....	3,600 00		
Laborer, 3 at \$660.....	1,980 00		
Laborer, 10 at \$600.....	6,000 00		
Watchman, 2 at \$600.....	1,200 00		
Automobile Engineman	1,350 00		
Cleaner, 16 at \$360.....	5,760 00		
Helper, 2 at \$720.....	1,440 00		
Helper, 5 at \$360.....	1,800 00		
Domestic, 2 at \$480.....	960 00		
Domestic	360 00		
Orderly, 2 at \$600.....	1,200 00		
Orderly, 2 at \$480.....	960 00		
Orderly	300 00		
Orderly	180 00		
Balance unassigned	900 00		
Schedule Total	\$534,240 00		
Change item "Automobile Engineman, 9 at \$900, \$8,100," to read "Driver, 26 at \$720 (including 10), \$7,200."			
Balance unassigned, \$900, until motor trucks and motor ambulances are delivered.			
Sanitary Inspection—			
1826 Tax Levy Force—			
Sanitary Superintendent	\$5,000 00		
Assistant Sanitary Superintendent, 5 at \$3,500.....	17,500 00		
Medical Inspector	2,550 00		
Medical Inspector, 4 at \$1,200.....	4,800 00		
Sanitary Engineer	2,400 00		
Sanitary Inspector	2,550 00		
Sanitary Inspector	1,800 00		
Sanitary Inspector, 9 at \$1,500.....	13,500 00		
Sanitary Inspector, 57 at \$1,200.....	68,400 00		
Sanitary Inspector	250 00		
Clerk	1,800 00		
Clerk, 2 at \$1,500.....	3,000 00		
Clerk, 4 at \$1,200.....	4,800 00		
Clerk	1,050 00		
Clerk	540 00		
Clerk, 5 at \$480.....	2,400 00		
Clerk, 8 at \$300.....	2,400 00		
Stenographer and Typewriter, 2 at \$900.....	\$1,800 00		
Stenographer and Typewriter	750 00		
Stenographer and Typewriter, 2 at \$600.....	1,200 00		
Typewriting Copyist, 3 at \$750.....	2,250 00		
Typewriting Copyist, 2 at \$600.....	1,200 00		
Veterinarian	1,500 00		
Driver	840 00		
Foreman of Laborers, 2 at \$1,200.....	2,400 00		
Laborer, 2 at \$780.....	1,560 00		
Laborer, 14 at \$660.....	9,240 00		
Chauffeur	1,200 00		
Lieutenant	2,250 00		
Schedule Total	\$534,240 00		
Change item "Automobile Engineman, 9 at \$900, \$8,100," to read "Driver, 26 at \$720 (including 10), \$7,200."			
Balance unassigned, \$900, until motor trucks and motor ambulances are delivered.			
Sanitary Inspection—			
1827 Hospital Service—			
1828 Food Inspection—			
Sanitary Inspector	\$3,000 00		
Sanitary Inspector	1,500 00		
Sanitary Inspector, 18 at \$1,200.....	21,600 00		
Inspector of Food, 3 at \$1,800.....	5,400 00		
Inspector of Food, 3 at \$1,500.....	4,500 00		
Inspector of Food, 6 at \$1,350.....	8,100 00		
Inspector of Food, 83 at \$1,200.....	99,600 00		
Medical Inspector, 3 at \$1,200.....	3,600 00		
Veterinarian, 6 at \$1,200.....	7,200 00		
Clerk	1,200 00		
Clerk	900 00		
Clerk	750 00		
Clerk	540 00		
Clerk, 8 at \$480.....	3,840 00		
Stenographer and Typewriter, 8 at \$600.....	4,800 00		
Typewriting Copyist, 2 at \$750.....	1,500 00		
Typewriting Copyist, 7 at \$600.....	4,200 00		
Schedule Total	\$172,230 00		
1828 Change item "Inspector of Foods, 4 at \$1,500, \$6,000," to read "Inspector of Foods, 3 at \$1,500, \$4,500."			
Hospital Service—			
1832 Willard Parker and Reception—			
Superintendent of Hospitals	\$3,000 00		
Hospital Physician, 4 at \$1,800.....	7,200 00		
Hospital Physician, 6 at \$1,200.....	7,200 00		
Interne, 14 at \$120.....	1,680 00		
Nurse	1,200 00		
Nurse, 5 at \$720.....	3,600 00		
Nurse, 45 at \$600.....	27,000 00		
Matron	900 00		
Hospital Clerk, 2 at \$1,200.....	2,400 00		
Hospital Clerk	720 00		
Hospital Clerk, 2 at \$600.....	1,200 00		
Hospital Clerk, 2 at \$480.....	960 00		
Clerk	1,200 00		
Typewriting Copyist	600 00		
Elevatorman, 3 at \$720.....	2,160 00		
Elevatorman, 4 at \$600.....	2,400 00		
Driver	720 00		
Butcher	720 00		
Disinfecter	1,050 00		
Carpenter, 2 at \$720.....	1,440 00		
Laborer, 2 at \$900.....	1,800 00		
Laborer	780 00		
Laborer	750 00		
Laborer, 5 at \$720.....	3,600 00		
Laborer, 17 at \$600.....	10,200 00		
Watchman	600 00		
Gardener	900 00		
Domestic	480 00		
Domestic, 6 at \$300.....	1,800 00		
Domestic	264 00		
Domestic, 10 at \$240.....	2,400 00		
Domestic, 60 at \$216.....	12,960 00		
Orderly, 2 at \$720.....	1,440 00		
Orderly, 6 at \$600.....			

Dairyman	600 00
Blacksmith	780 00
Plumber	900 00
Tinsmith	900 00
Stationary Engineer	900 00
Fireman	840 00
Fireman	600 00
Schedule total	\$30,220 00
Insert item, "Inspector of Foods, 1 at \$1,500," from 1828.	
1837 Laundry—	
Domestic, 9 at \$240	\$2,160 00
Domestic, 8 at \$216	1,728 00
Schedule total	\$3,888 00
Item, "Domestic, 15 at \$240, \$3,600," to read "Domestic, 9 at \$240, \$2,160," to 1834.	
Item, "Domestic, 13 at \$216, \$2,808," to read "Domestic, 8 at \$216, \$1,728," to 1834.	
The line item changes in detail are as follows:	

Ac- count No.	Line Item.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1820	Clerk, 8 at \$1,200 .....	.....	\$1,200 00	.....	\$1,200 00
	Clerk, 3 at \$750 .....	.....	750 00	.....	750 00
	Clerk, 1 at \$600 .....	.....	600 00	.....	600 00
	Clerk, 14 at \$480 .....	.....	480 00	.....	480 00
1821	Laborer, 4 at \$900 .....	.....	900 00	.....	900 00
	Watchman, 1 at \$600, out	\$600 00	.....	\$600 00	.....
	Elevator Attendant, 3 at \$900	900 00	.....	900 00	.....
1822	Tabulator, 2 at \$1,500	3,000 00	.....	3,000 00	.....
	Clerk, 1 at \$1,200 .....	.....	1,200 00	.....	1,200 00
	Tabulator, 1 at \$1,800 .....	.....	1,800 00	.....	1,800 00
1823	Medical Inspector, 143 at \$1,200	1,200 00	.....	1,200 00	.....
	Clerk, 2 at \$1,200 .....	.....	1,200 00	.....	1,200 00
	Clerk, 2 at \$750	750 00	.....	750 00	.....
	Clerk, 6 at \$600 .....	.....	600 00	.....	600 00
	Stenographer and Typewriter, 1 at \$750 .....	.....	750 00	.....	750 00
	Stenographer and Typewriter, 1 at \$600, out	600 00	.....	600 00	.....
1825	Driver, 16 at \$720 .....	.....	7,200 00	.....	7,200 00
	Automobile Engineman, 9 at \$900	8,100 00	.....	8,100 00	.....
	Balance unassigned .....	.....	900 00	.....	900 00
1826	Medical Inspector, 5 at \$1,200	1,200 00	.....	1,200 00	.....
	Sanitary Inspector, 56 at \$1,200 .....	.....	1,200 00	.....	1,200 00
	Clerk, 5 at \$1,200	1,200 00	.....	1,200 00	.....
	Clerk, 1 at \$750, out	750 00	.....	750 00	.....
	Clerk, 6 at \$480	480 00	.....	480 00	.....
1828	Inspector of Food, 4 at \$1,500	1,500 00	.....	1,500 00	.....
1832	Hospital Clerk, 3 at \$1,200	1,200 00	.....	1,200 00	.....
	Clerk .....	.....	1,200 00	.....	1,200 00
	Domestic, 4 at \$240	1,440 00	.....	1,440 00	.....
	Domestic, 30 at \$216	1,080 00	.....	1,080 00	.....
1835	Inspector of Foods	1,500 00	.....	1,500 00	.....
1837	Domestic, 15 at \$240	1,440 00	.....	1,440 00	.....
	Domestic, 13 at \$216	1,080 00	.....	1,080 00	.....
	Schedule total	\$24,900 00	.....	\$24,900 00	.....

Yours very truly, EUGENE W. SCHEFFER, Secretary.

Examined and found correct:

LOUIS C. CONNOLY, Auditor of the Department of Health.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 17, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 14, 1914, the Board of Health requested modification of eleven schedules of salaries in the Department of Health for the year 1914, involving a transfer of \$7,050. In connection therewith I report as follows:

It is proposed to transfer to No. 1820, Administration, General, one Clerk at \$1,200, one at \$750 and one at \$480, from No. 1826, Sanitary Inspection; in No. 1821, Administration, Care of Buildings and Grounds, to substitute a Laborer at \$900 for an Elevator Attendant at \$900, and to eliminate Watchman at \$600, substituting therefor in No. 1820, one Clerk at \$600; in No. 1822, Vital Statistics, the line Tabulator, 2 at \$1,500, is to be changed to read Tabulator, 1 at \$1,800, and Clerk, 1 at \$1,200, to conform to modification of November 26, 1913; in No. 1823, Child Hygiene, one Clerk at \$1,200 is to be substituted for a Medical Inspector at \$1,200, a Stenographer and Typewriter at \$750 for a Clerk at \$750, and a Clerk at \$600 for a Stenographer and Typewriter at \$600; in 1826, Sanitary Inspection, a Sanitary Inspector at \$1,200 is to be substituted for a Medical Inspector at \$1,200; in 1832, Willard Parker and Reception, the title of one Hospital Clerk at \$1,200 is to be changed to Clerk at \$1,200; six Domestics at \$240 and five at \$216 are to be transferred to No. 1834, Kingston Avenue, from No. 1837, Laundry Service; one Inspector of Foods at \$1,500 is to be transferred to 1835, Tuberculosis Sanatorium, Otisville, from No. 1828, Food Inspection.

It is further proposed, in No. 1825, Infectious Diseases, to change the line Automobile Engineman, 9 at \$900, to read Driver, 10 at \$720. Unassigned balance, \$900.

The change is necessary to provide for the operation of the present horse ambulances and trucks until the equipment for the motor service is delivered.

The following schedule shows the changes in detail:

Ac- count No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1820	Clerk, 8 at \$1,200 .....	.....	\$1,200 00	.....	\$1,200 00
	Clerk, 3 at \$750 .....	.....	750 00	.....	750 00
	Clerk, 1 at \$600 .....	.....	600 00	.....	600 00
	Clerk, 14 at \$480 .....	.....	480 00	.....	480 00
1821	Laborer, 4 at \$900 .....	.....	900 00	.....	900 00
	Elevator Attendant, 3 at \$900	\$900 00	.....	\$900 00	.....
	Watchman	600 00	.....	600 00	.....
1822	Tabulator .....	.....	1,800 00	.....	1,800 00
	Tabulator, 2 at \$1,500	3,000 00	.....	3,000 00	.....
	Clerk .....	.....	1,200 00	.....	1,200 00
1823	Medical Inspector, 143 at \$1,200	1,200 00	.....	1,200 00	.....
	Clerk, 2 at \$1,200 .....	.....	1,200 00	.....	1,200 00
	Clerk, 2 at \$750	750 00	.....	750 00	.....
	Clerk, 6 at \$600 .....	.....	600 00	.....	600 00
	Stenographer and Typewriter .....	.....	750 00	.....	750 00
	Stenographer and Typewriter	600 00	.....	600 00	.....
1825	Automobile Engineman, 9 at \$900 .....	.....	8,100 00	.....	8,100 00
	Driver, 10 at \$720 .....	.....	7,200 00	.....	7,200 00
	Unassigned balance	900 00	.....	900 00	.....
1826	Medical Inspector, 5 at \$1,200	1,200 00	.....	1,200 00	.....
	Sanitary Inspector, 56 at \$1,200 .....	.....	1,200 00	.....	1,200 00
	Clerk, 5 at \$1,200	1,200 00	.....	1,200 00	.....
	Clerk	1,200 00	.....	1,200 00	.....
1828	Inspector of Food, 4 at \$1,500	1,500 00	.....	1,500 00	.....

Ac- count No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
1832	Hospital Clerk, 3 at \$1,200	1,200 00	.....	1,200 00	.....
	Clerk .....	.....	1,200 00	.....	1,200 00
1834	Domestic, 4 at \$240 .....	.....	1,440 00	.....	1,440 00
	Domestic, 30 at \$216 .....	.....	1,080 00	.....	1,080 00
1835	Inspector of Foods .....	.....	1,500 00	.....	1,500 00
1837	Domestic, 15 at \$240	1,440 00	.....	1,440 00	.....
	Domestic, 13 at \$216	1,080 00	.....	1,080 00	.....
	Schedule total	\$24,000 00	.....	\$24,000 00	.....

I recommend the adoption of the attached resolutions granting the request. Respectfully,

W.M. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Department of Health for the year 1914, as follows:

FROM

Personal Service, Salaries Regular Employees.

18

Personal Service, Salaries, Regular Employees, Promoting Public Health.		
1823	Child Hygiene—	
	Medical Inspector	\$3,000 00
	Medical Inspector, Assistant Director	1,950 00
	Medical Inspector, Borough Chief	2,550 00
	Medical Inspector, Borough Chief	1,800 00
	Medical Inspector, 3 at \$1,800	5,400 00
	Medical Inspector, Supervisor, 16 at \$1,500	24,000 00
	Medical Inspector	1,500 00
	Medical Inspector, 142 at \$1,200	170,400 00
	Nurse, Superintendent	1,200 00
	Nurse, Supervisor, 16 at \$1,050	16,800 00
	Nurse, 233 at \$900	209,700 00
	Clerk	1,500 00
	Clerk, 3 at \$1,200	3,600 00
	Clerk, 2 at \$900	1,800 00
	Clerk	750 00
	Clerk, 7 at \$600	4,200 00
	Clerk, 3 at \$540	1,620 00
	Clerk, 4 at \$480	1,920 00
	Clerk, 6 at \$300	1,800 00
	Typewriting Copyist	900 00
	Typewriting Copyist	750 00
	Typewriting Copyist, 6 at \$600	3,600 00
	Stenographer and Typewriter, 2 at \$750	1,500 00
	Dentist	1,500 00
	Dentist, 9 at \$1,200	10,800 00
	Cleaner, 5 at \$360	1,800 00
	Hospital Clerk	780 00
	Hospital Clerk	720 00
	Hospital Clerk, 2 at \$600	1,200 00
	Watchman	720 00
	Watchman	600 00
	Orderly, 2 at \$600	1,200 00
	Helper	720 00
	Helper	600 00
	Helper	360 00
	Domestic, 6 at \$360	2,160 00
	Laborer	120 00
	Schedule total	
	Personal Service, Salaries, Regular Employees, Promoting Public Health.	
1825	Infectious Diseases—	
	Medical Inspector	\$3,000 00
	Medical Inspector, 2 at \$2,550	5,100 00
	Medical Inspector, 7 at \$1,800	12,600 00
	Medical Inspector, 40 at \$1,500	60,000 00
	Medical Inspector, 12 at \$1,200	14,400 00
	Veterinarian	1,800 00
	Veterinarian, 7 at \$1,200	8,400 00
	Bacteriologist	1,500 00
	Bacteriological Diagnostician, 2 at \$1,350	2,700 00
	Bacteriological Diagnostician, 2 at \$1,200	2,400 00
	Bacteriological Diagnostician	1,050 00
	Hospital Physician, 8 at \$1,200	9,600 00
	Attending Physician, 55 at \$600	33,000 00
	Assistant Attending Physician, 10 at \$300	3,000 00
	Dentist	1,200 00
	Clerk	2,550 00
	Clerk, 2 at \$1,800	3,600 00
	Clerk, 3 at \$1,500	4,500 00
	Clerk, 5 at \$1,200	6,000 00
	Clerk, 2 at \$1,050	2,100 00
	Clerk, 12 at \$900	10,800 00
	Clerk, 5 at \$750	3,750 00
	Clerk	600 00
	Clerk, 2 at \$540	1,080 00
	Clerk, 16 at \$480	7,680 00
	Clerk, 5 at \$300	1,500 00
	Hospital Clerk	900 00
	Hospital Clerk, 5 at \$750	3,750 00
	Hospital Clerk, 4 at \$600	2,400 00
	Stenographer and Typewriter	900 00
	Stenographer and Typewriter, 4 at \$750	3,000 00
	Stenographer and Typewriter, 4 at \$600	2,400 00
	Typewriting Copyist	900 00
	Typewriting Copyist	750 00
	Typewriting Copyist, 6 at \$600	3,600 00
	Assistant Director, Bacteriological Laboratory	3,000 00
	Assistant Director, Bacteriological Laboratory	1,800 00
	Nurse	1,200 00
	Supervising Nurse, 5 at \$1,050	5,250 00
	Nurse, 208 at \$900	187,200 00
	Social Service Nurse, 4 at \$900	3,600 00
	Laboratory Assistant, 3 at \$900	2,700 00
	Laboratory Assistant, 5 at \$750	3,750 00
	Laboratory Assistant, 13 at \$600	7,800 00
	Disinfecter, 7 at \$1,050	7,350 00
	Disinfecter, 28 at \$900	25,200 00
	Disinfecter, 7 at \$750	5,250 00
	Driver	840 00
	Driver, 3 at \$780	2,340 00
	Driver, 26 at \$720	18,720 00
	Stableman, 7 at \$720	5,040 00
	Stableman	600 00
	Foreman of Laborers	1,200 00
	Laborer	900 00
	Laborer, 5 at \$720	3,600 00
	Laborer, 3 at \$660	1,980 00
	Laborer, 10 at \$600	6,000 00
	Watchman, 2 at \$600	1,200 00
	Automobile Engineman	1,350 00
	Cleaner, 16 at \$360	5,760 00
	Helper, 2 at \$720	1,440 00
	Helper, 5 at \$360	1,800 00
	Domestic, 2 at \$480	960 00
	Domestic	360 00
	Orderly, 2 at \$600	1,200 00
	Orderly, 2 at \$480	960 00
	Orderly	300 00
	Orderly	180 00
	Balance unassigned (not available, except where providing for Auto- enginemen for motor ambulances and trucks)	900 00
	Schedule total	
	Personal Service, Salaries, Regular Employees, Promoting Public Health.	
1826	Sanitary Inspection, Tax Levy Force—	
	Sanitary Superintendent	\$5,000 00
	Assistant Sanitary Superintendent, 5 at \$3,500	17,500 00
	Medical Inspector	2,550 00
	Medical Inspector, 4 at \$1,200	4,800 00
	Sanitary Engineer	2,400 00
	Sanitary Inspector	2,550 00
	Sanitary Inspector	1,800 00
	Schedule total	
	Personal Service, Salaries, Regular Employees, Promoting Public Health.	
1828	Food Inspection—	
	Sanitary Inspector	\$3,000 00
	Sanitary Inspector	1,500 00
	Sanitary Inspector, 18 at \$1,200	21,600 00
	Inspector of Food, 3 at \$1,800	5,400 00
	Inspector of Food, 3 at \$1,500	4,500 00
	Inspector of Food, 6 at \$1,350	8,100 00
	Inspector of Food, 83 at \$1,200	99,600 00
	Medical Inspector, 3 at \$1,200	3,600 00
	Veterinarian, 6 at \$1,200	7,200 00
	Clerk	1,200 00
	Clerk	900 00
	Clerk	750 00
	Clerk	540 00
	Clerk, 8 at \$480	3,840 00
	Stenographer and Typewriter, 8 at \$600	4,800 00
	Typewriting Copyist, 2 at \$750	1,500 00
	Typewriting Copyist, 7 at \$600	4,200 00
	Schedule Total,	
	Personal Service, Salaries, Regular Employees, Promoting Public Health.	
1832	Willard Parker and Reception—	
	Superintendent of Hospitals	\$3,000 00
	Hospital Physician, 4 at \$1,800	7,200 00
	Hospital Physician, 6 at \$1,200	7,200 00
	Interne, 14 at \$120	1,680 00
	Nurse	1,200 00
	Nurse, 5 at \$720	3,600 00
	Nurse, 45 at \$600	27,000 00
	Matron	900 00
	Hospital Clerk, 2 at \$1,200	2,400 00
	Hospital Clerk	720 00
	Hospital Clerk, 2 at \$600	1,200 00
	Hospital Clerk, 2 at \$480	960 00
	Clerk	1,200 00
	Typewriting Copyist	600 00
	Elevatorman, 3 at \$720	2,160 00
	Elevatorman, 4 at \$600	2,400 00
	Driver	720 00
	Butcher	720 00
	Disinfecter	1,050 00
	Carpenter, 2 at \$720	1,440 00
	Laborer, 2 at \$900	1,800 00
	Laborer	780 00
	Laborer	750 00
	Laborer, 5 at \$720	3,600 00
	Laborer, 17 at \$600	10,200 00
	Watchman	600 00
	Gardener	900 00
	Domestic	480 00
	Domestic, 6 at \$300	1,800 00
	Domestic	264 00
	Domestic, 10 at \$240	2,400 00
	Domestic, 60 at \$216	12,960 00
	Orderly, 2 at \$720	1,440 00
	Orderly, 6 at \$600	3,600 00
	Schedule total	
	Salaries, Regular Employees, Hospital Service.	
1834	Kingston Avenue—	
	Hospital Physician, 3 at \$1,800	\$5,400 00
	Hospital Physician, 3 at \$1,200	3,600 00
	Interne, 11 at \$120	1,320 00
	Medical Inspector	1,800 00
	Nurse	1,200 00
	Nurse, 2 at \$720	1,440 00
	Nurse, 40 at \$600	24,000 00
	Hospital Clerk	1,200 00
	Hospital Clerk	900 00
	Hospital Clerk	720 00
	Hospital Clerk, 3 at \$600	1,800 00
	Telephone Switchboard Operator	750 00
	Matron	900 00
	Laboratory Assistant	600 00
	Butcher	720 00
	Driver, 5 at \$720	3,600 00
	Carpenter, 2 at \$936	1,872 00
	Laborer	900 00
	Laborer	720 00
	Laborer, 26 at \$600	15,600 00
	Gardener	720 00
	Watchman	600 00
	Domestic	420 00
	Domestic	360 00
	Domestic, 4 at \$300	1,200 00
	Domestic, 5 at \$264	1,320 00
	Domestic, 10 at \$240	2,400 00
	Domestic, 35 at \$216	7,560 00
	Orderly	720 00
	Orderly, 2 at \$600	1,200 00
	Schedule total	
	Personal Service, Salaries Regular Employees, Hospital Service.	
1835	Tuberculosis Sanatorium, Otisville:	
	Tax Levy Force—	
	Hospital Physician	\$4,000 00

Storage of Supplies, No. 2152TCW, Tax Levy, Corporate Stock and Water Revenue Force, the lines "Stenographer and Typewriter, 2 at \$900," and "Typewriting Copyist, 1 at \$900," are changed to Stenographer and Typewriter, 1 at \$900, and "Typewriting Copyist, 2 at \$900."

This change is necessary to conform the 1914 schedule with the 1913 schedule recently approved by your Board, a Typewriting Copyist, at \$900, having been substituted for a Stenographer and Typewriter, at the same rate, subsequent to the adoption of the 1914 Budget.

The necessary line item changes, as of January 1, 1914, are as follows:

Code No.	Line Item.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
2152TCW	Stenographer and Typewriter, 2 at \$900.	\$900 00		\$900 00	
	Typewriting Copyist, 1 at \$900		\$900 00		\$900 00
		\$900 00	\$900 00	\$900 00	\$900 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of a schedule, as revised, for the Department of Water Supply, Gas and Electricity for the year 1914, to be effective as of January 1, 1914, as follows:

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Personal Service, Salaries, Regular Employees, Administration, Purchase and Storage of Supplies.

2152TCW Tax Levy, Corporate Stock and Water Revenue Force—

Purchasing Agent	\$2,000 00
Inspector of Supplies	1,500 00
Storekeeper	1,500 00
Clerk, 2 at \$2,700	5,400 00
Clerk	2,250 00
Clerk, 8 at \$900	7,200 00
Clerk	540 00
Stenographer and Typewriter	900 00
Typewriting Copyist, 2 at \$900	1,800 00
Messenger	1,050 00
 Schedule total	 \$24,140 00
 Tax levy allowance	 \$12,070 00
Corporate stock allowance	7,242 00
Water revenue allowance	4,828 00
 Total allowance	 \$24,140 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Supreme Court, Second Department—Modification of Schedule (Cal. No. 40).

The Secretary presented the following:

Supreme Court of the State of New York, Brooklyn, N. Y., January 12, 1914.

Hon. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment, 277 Broadway, New York City:

Dear Sir—The Board of Estimate and Apportionment is requested to approve the modification of the schedule of salaries accompanying the Budget for the year 1914 for the Supreme Court, Second Department, Kings County, as follows:

SUPREME COURT, SECOND DEPARTMENT.

3465, Salaries, 1914.

Change item Assistant Clerk, 16 at \$2,000	\$32,000 00
Insert item Assistant Clerk, 18 at \$2,000	36,000 00
Change item Attendants, 32 at \$1,800	57,600 00
Insert item Attendants, 11 at \$2,000	22,000 00
Insert item Attendants, 18 at \$1,800	32,400 00
Change item Attendants, 11 at \$1,500	16,500 00
Insert item Attendants, 10 at \$1,500	15,000 00
Insert balance unassigned	700 00

The same as corrected to read as follows:

SUPREME COURT, SECOND DEPARTMENT.

3465, Salaries, 1914.

Justice, 15 at \$7,500	\$112,500 00
General Clerk	5,000 00
Assistant General Clerk	3,500 00
Clerk	4,000 00
Clerk, 4 at \$3,500	14,000 00
Clerk, 11 at \$3,000	33,000 00
Clerk, 2 at \$2,500	5,000 00
Assistant Clerk, 18 at \$2,000	36,000 00
Stenographer, 12 at \$3,600	43,200 00
Confidential Attendant	3,000 00
Chief Attendant	3,000 00
Attendant, 11 at \$2,000	22,000 00
Attendant, 18 at \$1,800	32,400 00
Attendant, 10 at \$1,500	15,000 00
Interpreter, 4 at \$2,500	10,000 00
Interpreter	1,500 00
Clerk to Justice, 10 at \$2,750	27,500 00
Typewriter Operator	1,500 00
Balance unassigned	700 00
	\$374,300 00

Respectfully,

J. F. McGEE, General Clerk.

City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 19, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 12, 1914, the General Clerk of the Supreme Court, Second Department, requested modification of the 1914 salary schedule for the Court. In connection therewith I report as follows:

Section 168 of the Judiciary Law, as amended by chapter 182 of the Laws of 1911 and chapter 826 of the Laws of 1913, provides that:

"The Justices of the Supreme Court for the Second Judicial District, residing in Kings County, or a majority of them; * * * * *, may appoint, and at pleasure remove all Clerks, Attendants, Messengers and Court officers in the Supreme Court (in said county), and fix their compensation, except where such compensation is fixed by law;" * * * * *

Pursuant to the provisions of the statute cited, which, as amended, became law on December 18, 1913, the Justices of the Supreme Court, residing in Kings County, have appointed 2 Attendants in the Court at \$1,800 to be Assistant Clerks at \$2,000 per annum each, from and after December 19, 1913, and have increased the rate for 11 Attendants at \$1,800 to \$2,000 per annum each; the increases to be effective as of January 1, 1914. Modification of the 1913 schedule, No. 3465, to conform to the changes effective in 1913, was duly made.

The amount necessary in the 1914 schedule, No. 3465, Salaries Regular Employees, to provide for the changes made since the adoption of the 1914 Budget, is \$6,200. It is provided by dropping 3 Attendants at \$1,800 and 1 Attendant at \$1,500. The balance of \$700 is to be scheduled as balance unassigned.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Supreme Court, Second Department, for the year 1914, to be effective as of January 1, 1914, as follows:

SUPREME COURT, SECOND DEPARTMENT.

Personal Service.

3465 Salaries Regular Employees—	
Justice, 15 at \$7,500	\$112,500 00
General Clerk	5,000 00
Assistant General Clerk	3,500 00
Clerk	4,000 00
Clerk, 4 at \$3,500	14,000 00
Clerk, 11 at \$3,000	33,000 00
Clerk, 2 at \$2,500	5,000 00
Assistant Clerk, 18 at \$2,000	36,000 00
Stenographer, 12 at \$3,600	43,200 00
Confidential Attendant	3,000 00
Chief Attendant	3,000 00
Attendant, 11 at \$2,000	22,000 00
Attendant, 18 at \$1,800	32,400 00
Attendant, 10 at \$1,500	15,000 00
Interpreter, 4 at \$2,500	10,000 00
Interpreter	1,500 00
Clerk to Justice, 10 at \$2,750	27,500 00
Typewriter Operator	1,500 00
Balance unassigned	700 00
 Schedule total	 \$374,300 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Law Department—Modification of Schedules (Cal. No. 41).

The Secretary presented the following:

City of New York, Law Department, Office of the Corporation Counsel, New York, December 9, 1913.

To the Honorable Board of Estimate and Apportionment:

Sirs—On December 4, 1913, a resolution was adopted by your Board revising the salary schedule of this Department for the year 1913. I request that a similar resolution be adopted making the same revision in the salary schedule for the year 1914.

Respectfully, ARCHIBALD R. WATSON, Corporation Counsel.

City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 20, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On December 10, 1913, the Corporation Counsel requested modification of the 1914 salary schedule for the Law Department to conform to the December, 1913, salary schedule for his office. In connection therewith I report as follows:

On December 4, 1913, the Board of Estimate and Apportionment adopted a resolution modifying the December salary schedule for the Law Department. The request is to modify the 1914 salary schedule to conform with that established December, 1913. No increase in the appropriation is involved.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Law Department for the year 1914, to be effective January 1, 1914, as follows:

LAW DEPARTMENT.

Personal Service.

120 Salaries Regular Employees—	
Corporation Counsel	\$15,000 00
Assistant, 2 at \$10,000	20,000 00
Assistant, 11 at \$7,500	82,500 00
Assistant, 3 at \$6,500	19,500 00
Assistant, 3 at \$6,000	18,000 00
Assistant, 3 at \$5,500	16,500 00
Assistant, 8 at \$5,000	40,000 00
Assistant, 7 at \$4,500	31,500 00
Assistant, 6 at \$4,000	24,000 00
Assistant, 8 at \$3,500	28,000 00
Assistant, 14 at \$3,000	42,000 00
Deputy Assistant,	

Process Server, 7 at \$1,200..... 8,400 00
 Process Server, 5 at \$1,050..... 5,250 00
 Schedule total \$63,960 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

President, Borough of Brooklyn—Modification of Schedule (Cal. No. 42).

The Secretary presented the following:

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, January 14, 1914.

Hon. WILLIAM A. PRENDERGAST, Comptroller, City of New York:

Dear Sir—On November 20, 1913, the schedules were modified for the Topographical Bureau of this Department providing for promotion of four Laborers to Axemen. In connection therewith, I would respectfully ask that you kindly have a report prepared for adoption by the Board of Estimate and Apportionment recommending modification of salary schedules Nos. 565TS and 575TS, to agree with existing conditions in our Topographical Bureau. Respectfully,

GEO. W. TILLSON, Acting Commissioner of Public Works.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 20, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 14, 1914, the President of the Borough of Brooklyn requested modification of a wage schedule in his office for the year 1914. In connection therewith I report as follows:

In Personal Service, Wages Regular Employees, Engineering (Topographical), No. 575TS, Tax Levy and Special and Trust Fund Force, the line, "Laborer, 8 at \$3 per day (303 days)," is changed to read, "Laborer, 5 at \$3 per day (303 days); Axeman, 3 at \$900; balance unassigned, \$27."

On November 20, 1913, Schedule No. 2946 C. S., Topographical, was modified by your Board to permit promotion of three Laborers to Axemen. This request is made to conform with existing conditions in the Topographical Bureau, and no increase in compensation is involved.

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the President of the Borough of Brooklyn for the year 1914, to be effective as of January 1, 1914, as follows:

Personal Service, Wages, Regular Employees, Engineering (Topographical).

575TS Tax Levy and Special and Trust Fund Force—	
Assistant Foreman, 1 at \$3.50 per day (303 days)	\$1,060 50
Laborer, 5 at \$3 per day (303 days)	4,545 00
Axeman, 3 at \$900	2,700 00
Balance unassigned	27 00
 Schedule total	 \$8,332 50
 Tax levy allowance	 \$4,552 50
 Special and trust fund allowance	 3,780 00
 Schedule total	 \$8,332 50

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Supreme Court, First Department—Modification of Schedule (Cal. No. 43).

The Secretary presented the following:

Supreme Court, Appellate Division, First Department, New York, December 3, 1913.

Hon. WILLIAM A. PRENDERGAST, Comptroller of The City of New York:

Dear Sir—I enclose herein copies of two orders of the Justices of the Appellate Division of the Supreme Court, First Department, increasing the salaries of the Chief Engineer from \$1,800 to \$2,100; two Engineers from \$1,500 to \$1,600 each, and the Elevatorman from \$1,000 to \$1,200, to take effect December 1, 1913. Presiding Justice Ingraham directs me to request that the Budget lines be modified so as to allow for these increases and that the sums necessary be provided either by transfer or revenue bonds, for this month and the year 1914. These increases are made pursuant to the authority conferred upon the Justices of the Appellate Division of the Supreme Court, First Department, by Chapter 490, of the Laws of 1900.

Respectfully yours,

GEORGE T. CAMPBELL, Librarian.

The Account No. for 1913, is 3591.

The Justices of the Appellate Division of the Supreme Court in and for the First Department, under the authority conferred by chapter 553 of the Laws of 1895, as amended by chapter 490 of the Laws of 1900, do hereby fix the compensation to be paid to Caspar Shutz, Elevatorman, in the Court House of the Appellate Division of the Supreme Court, First Department, at the sum of twelve hundred dollars per annum. This order to take effect from and after the 1st day of December, 1913.

Dated, New York, November 19, 1913.

GEO. L. INGRAHAM, CHESTER B. McLAUGHLIN, FRANK C. LAUGHLIN, JOHN PROCTOR CLARKE, FRANCIS M. SCOTT, VICTOR J. DOWLING.

I, Alfred Wagstaff, Clerk of the Appellate Division of the Supreme Court in the First Judicial Department, do hereby certify that the foregoing copy of order fixing compensation to be paid Caspar Shutz, etc., has been compared with the original thereof filed in this office on the 1st day of December, 1913, and that the same is a correct transcript thereof, and of the whole of the said original.

In Witness whereof, I have hereunto set my hand and affixed the seal of said Court in the County of New York, this 2d day of December, 1913.

(Seal)

ALFRED WAGSTAFF, Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 20, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On December 31, 1913, the Board of Estimate and Apportionment adopted a resolution modifying the December, 1913, salary schedule for the Supreme Court, First Department, Maintenance of Appellate Division Court House, to provide for increases in salary of four employees. The increases were made on November 19, 1913, by the Justices of the Appellate Division, First Department, who filed an order pursuant to the provisions of chapter 553 of the Laws of 1895, as amended by chapter 490 of the Laws of 1900, increasing the compensation of John F. McDonough, Chief Engineer, from \$1,800 to \$2,100 per annum; Oscar Fry, Engineer, from \$1,500 to \$1,600 per annum; Frank Delaney, Engineer, from \$1,500 to \$1,600 per annum, and Caspar Shutz, Elevatorman, from \$1,000 to \$1,200 per annum, to be effective on December 1, 1913.

Chapter 490 of the Laws of 1900 provides in part as follows:

"* * * The compensation to be paid to the Custodian, Engineer, Cleaner and other persons appointed pursuant to this section shall be fixed by the Justices of the Appellate Division of the Supreme Court in the First Department, and shall * * * be a county charge, and shall be paid by the Comptroller of The City of New York upon the certificate of the presiding Justice thereof or a majority of the Justices assigned to such Appellate Division."

Payment of the increases in salary being a mandatory county charge, provision for the same in the sum of \$700 for the year 1914 will be made by the Comptroller, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

I recommend the adoption of the attached resolution modifying the appropriate 1914 salary schedule to include the increases.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Supreme Court, First Department, Maintenance of Appellate Division Court House, for the year 1914, to be effective January 1, 1914, as follows:

SUPREME COURT, FIRST DEPARTMENT, MAINTENANCE OF APPELLATE DIVISION COURT
 HOUSE
 Personal Service.

	Paid from Tax Levy	Paid from Special Approp- riation.	Paid from Revenue Bonds.	Total.
3190 Salaries, Regular Employees—				
Custodian	\$1,800 00	.....	\$1,800 00	
Chief Engineer	1,800 00	\$300 00	2,100 00	
Telephone Operator	1,200 00	.....	1,200 00	
Engineer, 2 at \$1,600	3,000 00	200 00	3,200 00	
Fireman, 2 at \$1,095	2,190 00	.....	2,190 00	
Watchman	900 00	.....	900 00	
Elevatorman	1,000 00	200 00	1,200 00	
Porter, 7 at \$900	6,300 00	.....	6,300 00	
Cleaner, 10 at \$360	3,600 00	.....	3,600 00	
 Schedule total .....	.....	.....	\$22,490 00	
 Tax levy allowance .....	.....	.....	\$21,790 00	
 Rate of special revenue bond allowance .....	.....	.....	700 00	
.....	.....	.....	\$22,490 00	

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Supreme Court, First Department—Modification of Schedule (Cal. No. 44).

The Secretary presented the following:

Supreme Court, Appellate Division, First Department, New York, January 15, 1914.

Hon. WILLIAM A. PRENDERGAST, Comptroller of The City of New York:

Dear Sir—In account No. 3583—1913 (Wages, Temporary Employees) there is a balance of \$13.80. I have bills awaiting payment amounting to \$458 for fees of Stenographers to Official Referees, for services performed during 1913. As the balance in the fund above referred to is insufficient to pay these obligations I am directed by Presiding Justice Ingraham to request that funds be provided to meet these bills by the issue of revenue bonds.

These charges are mandatory and their payment is provided for by section 315 of the Judiciary Law. Very truly yours, GEORGE T. CAMPBELL, Librarian.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 20, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 15, 1914, the Librarian of the Supreme Court, Appellate Division, First Department, requested \$444.20 in special revenue bonds to pay the fees of Stenographers to Official Referees in 1913. In connection therewith I report as follows:

The Librarian states that he has a balance of \$13.80 in Account No. 3583, Wages, Temporary Employees, and has on file in his office bills of Stenographers to Official Referees for 1913 amounting to \$458. There is accordingly a deficit of \$444.20 in the fund.

Section 315 of the Judiciary Law provides as follows:

"The fees of a supreme court stenographer for taking testimony or furnishing one copy thereof, as provided by section one hundred and sixteen of this chapter when required by an official referee appointed by the appellate division of the supreme court in the first department shall be at the rate of ten cents a folio, to be paid by the County of New York."

Payment of the fees being a mandatory county charge, provision for the same in the sum of \$444.20 will be made by the Comptroller pursuant to the provision of subdivision 7 of section 188 of the Greater New York Charter.

I recommend the adoption of the attached resolution revising the appropriate schedule to permit the audit of the bills.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised for the Supreme Court, First Department, for the year 1913, to be effective December 1, 1913, as follows:

SUPREME COURT, FIRST DEPARTMENT.

Personal Service.

	Paid from Tax Levy	Paid from Special Approp- riation.	Paid from Revenue Bonds.	Total.
3583 Wages, Temporary Employees—				
Stenographer to Official Referees, compensation not to exceed 10 cents per folio	\$1,600 00	\$444 20	\$2,044 20	
Stenographer, compensation not to exceed \$10 per day (30 days)	300 00	.....	300 00	
Interpreter, at \$5 per day (20 days)	100 00	.....	100 00	
 Schedule Total .....	.....	.....	\$2,444 20	
 Tax Levy Allowance .....	.....	.....	\$2,000 00	
 Revenue Bond Allowance .....	.....	.....	444 20	
.....	.....	.....	\$2,444 20	

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Supreme Court, First Department—Modification of Schedule (Cal. No. 45).

The Secretary presented the following:

Supreme Court, Appellate Division, First Department, New York, January 8, 1914.

Hon. WILLIAM A. PRENDERGAST, Comptroller of The City of New York:

Dear Sir—I enclose herein certified copy of an order of the Justices of the Appellate Division of the Supreme Court, First Department, appointing George M. Laubshire to the position of Stenographer of the Supreme Court, First Judicial District, in the County of Bronx, to take effect on the 1st of January, 1914.

Presiding Justice Ingraham directs me to request that a fund be provided for the payment of this Stenographer's salary for the year 1914, as there is no regular appropriation for the County of Bronx sufficient to pay this charge. The appointment was made pursuant to the provisions of section 10

in the first department, or a majority of them, must appoint and may at pleasure remove, a stenographer for each part or term of the Supreme Court; * * * * Chapter 491 of the Laws of 1913 provides, in part, as follows:

* * * * * The stenographers appointed by the justices of the appellate division of the first department for each part or term of the Supreme Court * * * * * shall receive an annual salary of three thousand six hundred dollars, payable in equal monthly installments."

Payment of the salary in the necessary sum of \$3,600 being a mandatory county charge, provision for the same will be made by the Comptroller, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

I recommend the adoption of the attached resolution revising the appropriate salary schedule to include the position of Stenographer.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedule, as revised, for the Supreme Court, First Department, for the year 1914, to be effective as of January 1, 1914, as follows:

Personal Service, Salaries, Regular Employees.

3320½R Stenographer \$3,600 00

Revenue bond allowance \$3,600 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Court of Special Sessions—Modification of Schedule (Cal. No. 46).

The Secretary presented the following:

Chief Clerk's Office, Court of Special Sessions of The City of New York, Corner Franklin and Centre Streets, New York, December 27, 1913.

Board of Estimate and Apportionment, City of New York:

Gentlemen—Several weeks ago a request was made to change the title of the several designations of Clerk and Deputy Clerk, Manhattan and The Bronx, to read:

Clerk of Court, The Bronx;

Clerk of the Children's Court, The Bronx;

Deputy Clerk of the Children's Court, The Bronx;

—so as to conform with the appointments made and also the Civil Service requirements. Inasmuch as these Clerks take office on the 1st of January next, may we ask that unanimous action by the Board of Estimate and Apportionment be taken on this matter, if possible. Respectfully,

F. W. SMITH, Chief Clerk.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 21, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On December 27, 1913, the Chief Clerk of the Court of Special Sessions requested modification of the salary schedule of that Court for the year 1914. In connection therewith I report as follows:

In Personal Service, No. 2885, Salaries Regular Employees, the lines

Clerk, Manhattan and The Bronx, 2 at \$2,000.....	\$4,000 00
Deputy Clerk, Manhattan and The Bronx.....	1,500 00

—are changed to read:

Clerk of Court, The Bronx, 1 at.....	\$2,000 00
Clerk of Children's Court, The Bronx, 1 at.....	2,000 00
Deputy Clerk, Children's Court, The Bronx, 1 at.....	1,500 00

The Chief Clerk states that the request is made to conform with the proper designation, assignment to duties, and also with the Civil Service requirements. It is stated that the Clerks have been duly appointed and are rendering the services required. The request involves no increase in the Budget allowance for the respective positions.

I recommend that the request be granted by the adoption of the attached resolution. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the Court of Special Sessions, for the year 1914, to be effective as of January 1, 1914, as follows:

COURT OF SPECIAL SESSIONS.

Summary of Appropriation.

Personal Service	\$377,910 00
Supplies	2,588 00
Purchase of Equipment	1,263 00
Contract or Open Order Service.....	5,300 00
Contingencies	425 00

Departmental Total..... \$387,486 00

Personal Service.

2885 Salaries, Regular Employees—

Chief Justice	\$10,000 00
Associate Justice, 14 at \$9,000.....	126,000 00
Chief Clerk	6,000 00
Private Secretary to Chief Justice.....	2,000 00
Clerk to Chief Justice	1,500 00
Clerk, Chief Clerk's Office.....	1,500 00
Stenographer, Chief Clerk's Office.....	1,500 00
Registrar, Chief Clerk's Office.....	1,050 00
Messenger, Chief Clerk's Office.....	900 00
Chief Probation Officer	3,000 00
Deputy Chief Probation Officer	2,000 00
Court Attendant, all Boroughs, 30 at \$1,500.....	45,000 00
Probation Officer, Male, 21 at \$1,200.....	25,200 00
Probation Officer, Male, 10 at \$1,500.....	15,000 00
Probation Officer, Female, 11 at \$1,200.....	13,200 00
Probation Officer, Female, 5 at \$1,500.....	7,500 00
Probation Officer, Female, Manhattan and The Bronx.....	1,800 00
Probation Officer, Female, Brooklyn.....	1,500 00
Stenographer and Typewriter, Office Chief Probation Officer.....	1,200 00
Stenographer and Typewriter, Office Chief Probation Officer.....	1,050 00
Stenographer and Typewriter, Office Chief Probation Officer.....	900 00
Clerk of Court, Manhattan and The Bronx.....	5,000 00
Deputy Clerk of Court, Manhattan and The Bronx.....	4,000 00
Deputy Clerk, Manhattan and The Bronx.....	2,000 00
Court Stenographer, Manhattan and The Bronx.....	3,000 00
Court Stenographer, Manhattan and The Bronx.....	2,000 00
Interpreter, Manhattan and The Bronx.....	2,000 00
Interpreter, Manhattan and The Bronx.....	1,500 00
Stenographer and Typewriter, Manhattan and The Bronx.....	1,500 00
Clerk, Manhattan and The Bronx, 3 at \$1,800.....	5,400 00
Clerk, Manhattan and The Bronx, 3 at \$1,500.....	4,500 00
Clerk, Manhattan and The Bronx.....	1,350 00
Clerk, Manhattan and The Bronx.....	1,200 00
Clerk, Manhattan and The Bronx.....	4,000 00
Deputy Clerk, Children's Court, Manhattan and The Bronx.....	2,750 00
Court Stenographer, Children's Court, Manhattan and The Bronx.....	2,500 00
Assistant Clerk, Children's Court, Manhattan and The Bronx.....	2,250 00
Interpreter, Children's Court, Manhattan and The Bronx.....	1,950 00
Clerk, Children's Court, Manhattan and The Bronx.....	1,650 00
Clerk, Children's Court, Manhattan and The Bronx.....	1,000 00
Clerk, Children's Court, Manhattan and The Bronx.....	1,050 00
Clerk of Court, Brooklyn.....	4,250 00
Deputy Clerk of Court, Brooklyn.....	3,750 00
Clerk of Court, Queens.....	2,000 00
Clerk of Court, Richmond	2,000 00
Court Stenographer, Brooklyn.....	2,000 00
Interpreter, Brooklyn	2,000 00
Interpreter, Italian, Brooklyn.....	1,200 00
Assistant Clerk, Brooklyn.....	2,250 00
Stenographer and Typewriter, Brooklyn.....	1,200 00
Assistant Clerk, Brooklyn.....	1,800 00
Assistant Clerk, Brooklyn.....	1,500 00

Clerk, Brooklyn	1,200 00
Clerk, Children's Court, Brooklyn.....	3,000 00
Deputy Clerk, Children's Court, Brooklyn.....	2,000 00
Court Stenographer, Children's Court, Brooklyn.....	2,000 00
Assistant Clerk, Children's Court, Brooklyn.....	1,800 00
Interpreter, Children's Court, Brooklyn.....	1,800 00
Clerk, Children's Court, Queens.....	2,000 00
Clerk, Children's Court, Richmond.....	2,000 00
Court Stenographer, Children's Court, Queens and Richmond.....	2,000 00
Interpreter, Children's Court, Queens and Richmond.....	1,500 00
Interpreter, Manhattan and The Bronx.....	1,200 00
Attendants, Manhattan and The Bronx, 2 at \$1,200.....	2,400 00
Clerk of Court, The Bronx.....	2,000 00
Clerk of Children's Court, The Bronx.....	2,000 00
Deputy Clerk, Children's Court, The Bronx.....	1,500 00
Medical Examiner, Children's Court.....	1,500 00
Medical Examiner, Children's Court, 2 at \$1,200.....	2,400 00
Stenographer and Typewriter to Medical Examiners.....	900 00
Cleaner, Children's Court, Queens.....	360 00

Schedule total \$375,910 00

This appropriation is made upon the condition that the appropriation for the line "Probation Officer, Male, 10 at \$1,500, \$15,000," shall not become available for promotion until every Probation Officer designated for such promotion shall have met all Civil Service requirements and that until such Civil Service Requirements are met, payment may be made from this line for 10 Probation Officers, Male, at the rate of \$1,200, and that the appropriation for the line "Probation Officer, Female, 5 at \$1,500, \$7,500," shall not become available for promotion until every Probation Officer designated for such promotion shall have met all Civil Service requirements and that until such Civil Service requirements are met, payment may be made from this line for 5 Probation Officers, Female, at the rate of \$1,200.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

President, Borough of Brooklyn—Modification of Schedule (Cal. No. 47).

The Secretary presented the following:

The City of New York, Office of the President of the Borough of Brooklyn, Brooklyn, January 16, 1914.

Hon. WM. A. PRENDERGAST, Comptroller, Department of Finance, City of New York:

Dear Sir—I transmit herewith copy of proposed modification of salary schedule No. 562, Janitorial Service, Bureau of Public Buildings and Offices, this Department.

I will thank you to kindly have report prepared requesting modification of this salary schedule to meet existing conditions in this Department. The change in this schedule provides:

For the substitution of four (4) Attendants, at \$750 per annum, for four (4) Laborers at the same salary.

For the substitution of one (1) Attendant, at \$900 for one (1) Janitor at the same salary.

These changes are made for the purpose of changing the titles of a number of Laborers who, some years ago, passed the promotion examination for the position of Attendant, and we are changing their titles, at the same salary. Would further thank you to kindly have this matter acted upon at your early convenience. Yours very truly,

GEO. W. TILLSON, Acting Commissioner of Public Works.

City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 19, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 16, 1914, the President of the Borough of Brooklyn requested modification of a salary schedule in his office for the year 1914. In connection therewith I report as follows:

In Personal Service, Salaries, Regular Employees, Care of Public Buildings and Offices, No. 562, Janitorial Service, Cleaning and Attendance, the line, "Janitor, \$900," is eliminated. The line, "Attendant, 52 at \$900," is changed to read "Attendant, 53 at \$900." The line "Attendant, 48 at \$750," is changed to read "Attendant, 52 at \$750," and the line, "Laborer, 65 at \$750," is changed to read "Laborer, 61 at \$750."

By these changes the title of a Janitor at \$900 is changed to Attendant at the same salary, and the titles of four Laborers at \$750 are changed to Attendants at the same salary.

The request is made for the purpose of changing the titles of five employees so that they will agree with their present duties.

The changes are made in accordance with the rules of the Municipal Civil Service Commission. No increases of salaries are involved in the request.

I recommend the adoption of the attached resolution granting the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedule, as revised, for the office of the President of the Borough of Brooklyn for the year 1914, to be effective as of January 1, 1914, as follows:

Personal Service, Salaries, Regular Employees, Care of Public Buildings and Offices.

562 Janitorial Service, Cleaning and Attendance—	
Janitor, 2 at \$1,800	\$3,600 00
Janitor, 2 at \$1,500	3,000 00
Janitor, 6 at \$900	5,400 00
Janitress	750 00
Elevator Conductor, 12 at \$900	10,800 00
Matron, 2 at \$1,050	2,100 00
Watchman, 12 at \$900	10,800 00
Driver, 3 at \$900	2,700 00
Laborer, 9 at \$900	8,100 00
Laborer, 61 at \$750	45,750 00
Cleaner, 65 at \$360	23,400 00
Attendant	1,200 00
Attendant	1,050 00
Attendant, 53 at \$900	47,700 00
Attendant, 52 at \$750	39,000 00

approval thereof; therefore, as provided in section 40 of the Greater New York Charter, the same took effect as if he had approved it.

P. J. SCULLY, City Clerk.

City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 21, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On April 1, 1913, the Board of Aldermen adopted a resolution requesting \$8,500 special revenue bonds for the purpose of resurfacing that part of Crotona avenue under the jurisdiction of the Department of Parks, Borough of The Bronx. In connection therewith I report as follows:

At a meeting of your Board on May 1, 1913, a report of the Comptroller recommending that the request be not approved on the ground that the road should be maintained by Budget funds was laid over and no action concerning it has since been taken.

Although the road was in bad condition, nothing was done in 1913 except to throw screenings in the holes on the avenue. The resolution stated that all obligations contracted were to be incurred on or before December 31, 1913. I am still of the opinion that the road should be maintained by Budget funds.

In view of the foregoing, I recommend that the request be denied.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby denies the request of the Board of Aldermen, as set forth in a resolution adopted by said Board April 1, 1913, for the issue of eighty-five hundred dollars (\$8,500) special revenue bonds, the proceeds whereof to be used by the Commissioner of Parks, Borough of The Bronx, for the purpose of resurfacing Crotona avenue, The Bronx.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was directed to notify the Board of Aldermen and the Commissioner of Parks, Borough of The Bronx.

Tenement House Department—Permission to Destroy Certain Records (Cal. No. 53).

(On November 13 and 20, 1913, and on January 16, 1914, this matter was referred to the Comptroller.)

The Secretary presented the following:

Tenement House Department of The City of New York, Borough of Manhattan, November 11, 1913.

To the Board of Estimate and Apportionment:

Gentlemen—I submit herewith the opinion of the Corporation Counsel and request your consent to the destruction of said papers.

Yours respectfully, JOHN J. MURPHY, Commissioner.

Law Department, Office of the Corporation Counsel.

Board of Estimate and Apportionment of The City of New York:

Sirs—I am in receipt of a communication from the Commissioner of the Tenement House Department requesting a certificate in re the destruction of the following papers and records now on file in his department:

"1. Records of all dismissed or cancelled violations against tenement houses prior to January 1, 1910, together with reinspection slips and correspondence where department orders have been complied with without any modification of the violations.

"2. Application for searches prior to January 1, 1910, for pending violations on tenement houses.

"3. Indexed cards in duplicate showing classification of inspection of tenements.

"4. An accumulation of original and duplicate cards prior to January 1, 1910, containing certain temporary memoranda relating to violations now dismissed; weekly work and time records of employees, architects' cards, etc., etc.

"5. United States Census cards of New York City for the year 1900, from which all data has been taken and printed in our annual reports."

Pursuant to the provisions of section 1545a of the Greater New York Charter, I hereby certify that the destruction of the above mentioned papers and records will in no wise affect the interest of The City of New York in any pending, anticipated or contemplated claim, action or proceeding by or against the said City.

Yours respectfully, LOUIS H. HAHLO, Acting Corporation Counsel.

Tenement House Department, Manhattan, November 18, 1913.

Board of Estimate and Apportionment, No. 277 Broadway, City:

Gentlemen—I hereby certify that the following papers no longer serve any useful purpose and I believe that they will in nowise affect the interests of The City of New York in any pending, anticipated or contemplated claim, action or proceeding by or against the City.

I, therefore, request that, under section 1545a of the Greater New York Charter, permission of your honorable Board to destroy the following papers:

1. Records of all dismissed or cancelled violations against tenement houses prior to January 1, 1910, together with reinspection slips and correspondence where Department orders have been complied with without any modification of the violations.

2. Application for searches prior to January 1, 1910, for pending violations on tenement houses.

3. Index cards in duplicate, showing classification of inspection of tenements.

4. An accumulation of original and duplicate cards prior to January 1, 1910, containing certain temporary memoranda relating to violations now dismissed; weekly work and time records of employees, architects' cards, etc., etc.

5. United States census cards of New York City for the year 1900, from which all data has been taken and printed in our annual reports. Yours respectfully,

JOHN J. MURPHY, Commissioner.

Tenement House Department, Manhattan, January 8, 1914.

Board of Estimate and Apportionment, No. 277 Broadway, City:

Gentlemen—I hereby certify that the following papers no longer serve any useful purpose and I believe that they will in nowise affect the interests of The City of New York in any pending, anticipated or contemplated claim, action or proceeding by or against the City.

I, therefore, request that, under section 1545a of the Greater New York Charter, permission of your honorable Board to destroy the following papers:

1. United States census cards of 1900.

2. Request for searches prior to January 1, 1910 (Form 511).

3. Docket card, violation dismissed, to January 1, 1910 (Form 1000).

4. Record of violation card, violation dismissed, to January 1, 1910 (Form 508).

5. W. card, violation dismissed, to January 1, 1910 (Form 1009).

6. C. W. card, violation dismissed, to January 1, 1910 (Form C1009).

7. S card, violation dismissed, to January 1, 1910 (Form 1008).

8. Night lighting card, violation dismissed, to January 1, 1910 (Form 1004).

9. Alteration progress card, violation dismissed, to January 1, 1910 (Form 182).

10. Fire escape card, violation dismissed, to January 1, 1910 (Form 1003).

11. N. B. progress cards, violation dismissed, to January 1, 1910 (Form 82).

12. N. B. card, violation dismissed, to January 1, 1910 (Form 185).

13. Application for N. B. certificate, to January 1, 1910 (Form 154).

14. Old building violation, violation dismissed, to January 1, 1910 (Form 131); alteration violation, violation dismissed, to January 1, 1910 (Form 131A); new building violation, violation dismissed, to January 1, 1910 (Form 137); vacation of tenement house case, with reinspection slip 167, Inspector's report No. 1036, and correspondence where Department orders have been complied with without any modification.

15. The following cards to be destroyed in cases where the building has been demolished: Record of action card (Form 500), tuberculosis card (Form 505), contagious disease card (Form 501), death card (Form 502).

Respectfully, JOHN J. MURPHY, Commissioner.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 20, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On November 18, 1913, and January 8, 1914, the Tenement House Commissioner requested permission, under section 1545a of the Charter, to destroy certain records of his Department. In connection therewith I report as follows:

Many of the records involved might properly be destroyed without affecting the interests of the City; others are original documents, some of which have been subpoenaed in court actions. One form of document contains the only filed sworn certificate of the Inspector that the Tenement House Act has been complied with.

The request is incorrect in the description of a number of the items. It also neglects to note that records of the Borough of Manhattan only are intended to be destroyed.

I recommend that the request be denied and the matter referred back to the Tenement House Commissioner for correction and revision.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby denies the request of the Tenement House Commissioner for permission, pursuant to the provisions of section 1545a of the Greater New York Charter, to destroy certain records of said Department, specified in communications dated November 18, 1913, and January 8, 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The matter was referred back to the Tenement House Commissioner for correction and revision, in accordance with the recommendations contained in the Comptroller's report.

Department of Water Supply, Gas and Electricity—Appropriation from Water Revenues, Brooklyn (Cal. No. 54).

(On January 9, 1914, the request for this appropriation was referred to the Comptroller.)

The Secretary presented the following:

The City of New York, Department of Water Supply, Gas and Electricity, Commissioner's Office, 13-21 Park Row, New York, January 2, 1914.

Mr. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment:

Dear Sir—In order that I may comply with the resolution adopted by your Board on December 18 last, asking that provision be made for the payment of Bricklayers at \$6 per diem, I respectfully request that a further appropriation be made under section 242 of the Charter to the amount of \$494.80 to furnish the necessary funds.

Yours truly, HENRY S. THOMPSON, Commissioner.

City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 20, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 2, 1914, the Commissioner of Water Supply, Gas and Electricity requested an appropriation of \$494.80 from the 1914 Brooklyn water revenues, pursuant to the provisions of section 242 of the Greater New York Charter, to provide for payment of the prevailing rate of wages to certain Bricklayers in his Department during the year 1914. In connection therewith I report as follows:

On December 18, 1913, the Board of Estimate and Apportionment adopted a resolution recommending to the Board of Aldermen the establishment in City Departments of the additional grade of the position of Bricklayer and Bricklayer (Mason) at 75 cents per hour, or \$6 per day for an unlimited number of incumbents. This resolution was approved of and concurred in by the Board of Aldermen on December 23, 1913, and approved by the Mayor on December 31, 1913.

The request is to provide for the regular and temporary time allowance for four Bricklayers paid from water revenue funds and provided for in the 1914 Budget schedules at the \$6.00 per day rate, as follows:

Code No.	Line Item.	Annual Compensation at \$5.60 Per Day Rate.	Annual Compensation at \$6 Per Day Rate.	Excess Necessary for \$6 Per Day Rate.
2184W	Bricklayer, 2 at \$5.60 per day (303 days)	\$3,393.60	\$3,636.00	\$242.40
2186W	Bricklayer, 2 at \$5.60 per day (303 days)	3,393.60	3,636.00	242.40
2197W	Bricklayer, 1 at \$5.60 per day (20 days)	112.00	120.00	8.00
2199W	Bricklayer, 1 at \$5.60 per day (5 days)	28.00	30.00	2.00
		\$6,927.20	\$7,422.00	\$494.80

The high per diem rate received by Bricklayers is largely due to the fact that their aggregate number of days' employment, outside of the City's service, is limited by weather conditions and the varying demands of the building trades. Bricklayers attached to the Department of Water Supply, Gas and Electricity are, however, now employed for every day in the year except Sundays and holidays, with an additional provision for any overtime work that may be needed.

The actual bricklaying necessary for proper maintenance of the property under the Commissioner's jurisdiction can hardly require the services of these four men for every day now provided for. A small reduction in the number of days' employment would permit of the payment of the \$6 per day rate for regular time without further appropriation. By decreasing the allowances for temporary time in schedules No. 2197W and No. 2199W from 20 to 18 days and from 5 to 4 days, respectively, full provision for the \$6 rate for temporary time may be made.

I recommend, therefore, that the request be denied, and that a copy of this report be transmitted to the Commissioner with the suggestion that he request modification of the four schedules, payable from water revenue funds, along the lines suggested, and that he also request similar modification of tax levy schedules to provide for the payment of the \$6 per day rate to Bricklayers, paid from tax levy funds. Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby denies the request of the Commissioner of Water Supply, Gas and Electricity, as set forth in a communication dated January 2, 1914, for an appropriation of four hundred and ninety-four dollars and eighty cents (\$494.80) from the Brooklyn water revenues for the year 1914, to provide for the payment of the prevailing rate of wages of Bricklayers in said Department for the year 1914.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report to the Commissioner of Water Supply, Gas and Electricity.

Department of Parks, Borough of Queens—Issue of Corporate Stock (Cal. No. 55).

(On September 25, 1913, the request of the Commissioner of Parks, Borough of Queens, for this appropriation was referred to the Corporate Stock Budget Committee.)

The Secretary presented the following:

The City of New York, Department of Parks, Borough of Queens, The Overlook, Forest Park, August 28, 1913.

The Honorable the Board of Estimate and Apportionment, 277 Broadway, New York City:

Gentlemen—I hereby respectfully request your Honorable Board for an issue of corporate stock to the amount of \$14,000 for engineering services in the preparation of plans and specifications and such inspection and supervision as may be necessary to the improvement of new and old parks under the jurisdiction of this Department. Such corporate stock to be available on or about January 1, 1914. Very respectfully yours,

WALTER G. ELIOT, Commissioner of Parks, Borough of Queens.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 19, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On August 28, 1913, the Commissioner of Parks, Borough

in 1913, be provided for entirely out of tax levy in 1914, that it might be employed as a planning and developing force in addition to necessary maintenance work. This request was given consideration by the Budget Committee and disapproved, but provision was made for an engineering maintenance force.

After the 1914 Budget was approved, request was made for an issue of corporate stock to provide for the salaries of employees to supervise work chargeable to corporate stock fund, available after January 1, 1914. On December 24, 1913, your Board adopted a resolution approving \$2,400 corporate stock for this purpose.

No Corporate Stock Budget Committee has been appointed for the present Board of Estimate and Apportionment, and for that reason and the fact that this request already has been given consideration, I recommend that the request be disapproved.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby disapproves of the request of the Commissioner of Parks, Borough of Queens, as set forth in a communication dated August 28, 1913, for the issue of fourteen thousand dollars (\$14,000) corporate stock for engineering services in the preparation of plans and specifications and such inspection and supervision as may be necessary to the improvement of new and old parks under his jurisdiction.

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The Secretary was directed to transmit a copy of the report of the Comptroller to the Commissioner of Parks, Borough of Queens.

President, Borough of Richmond—Issue of Special Revenue Bonds (Cal. No. 56).

The Secretary presented:

Report of the Comptroller returning for filing request of the President, Borough of Richmond, for preliminary investigation of a request before the Board of Aldermen for the issue of special revenue bonds to provide for the erection of signs and sign posts on streets in the Borough of Richmond, on which public schools are located, for the reason that the Board of Aldermen denied said request.

(On October 2, 1913, the above communication was referred to the Comptroller.)

Which was ordered on file.

Department of Public Charities—Authority to Employ Architects (Cal. No. 57).

The Secretary presented:

Report of the Comptroller referring to requests of the former Commissioner of Public Charities for permission to employ A. L. A. Himmelwright and H. F. J. Porter, to prepare specifications for advertising for bids for fire alarms in connection with a system of fire protection for the buildings under the jurisdiction of his Department, and for an appropriation of \$92,400 corporate stock for additional fire prevention work, stating that the specifications for a system of fire alarms have been prepared by the Messrs. Himmelwright & Porter, but were rejected by the Bureau of Fire Prevention, and in view of this fact, and for the further reason that the legality of the contract with the above gentlemen should be tested, it is recommended that the request for permission to employ them be denied, and that the request for an additional authorization of corporate stock be also denied.

(On September 25, 1913, the request for an additional appropriation was referred to the Corporate Stock Budget Committee.)

Which was laid over one week (February 6, 1914).

Department of Health—Establishment of the Grade of Position of Auditor (Cal. No. 58).

The Secretary presented:

Report of the Comptroller returning for filing communication from the Board of Health requesting the establishment in the Department of Health, of the grade of position of Auditor, at \$3,000 per annum, no action being required, as the Budget for 1914 establishes said position.

(On November 13, 1913, the above request was referred to the Committee on Salaries and Grades.)

Which was ordered filed, and the Secretary directed to notify the Department of Health.

President, Borough of Richmond—Establishment of Position of Stationary Engineer (Cal. No. 59).

The Secretary presented:

Report of the Comptroller returning for filing request of the President, Borough of Richmond, for the establishment of grade of position of Stationary Engineer at \$6 per day, for the Bureau of Public Buildings and Offices, for the reason that this matter was considered and disposed of by the Budget Committee.

(On October 9, 1913, the above request was referred to the Committee on Salaries and Grades.)

Which was ordered filed, and the Secretary directed to notify the President of the Borough of Richmond.

Public Service Commission, First District—Appropriation for Removing Kiosks (Cal. No. 60).

The Secretary presented:

Report of the Comptroller returning for filing communication from the Public Service Commission for an appropriation of \$1,633.50, to pay the expenses of removing kiosks over the subway entrances and exists at the corner of Madison Avenue and 42d street, Manhattan, as said request has been withdrawn.

(On July 3, 1913, the above request was referred to the Corporate Stock Budget Committee, as was also, on January 16, 1914, a communication from the Public Service Commission, withdrawing same.)

Which was ordered filed, and the Secretary directed to return to the Public Service Commission the communication referred to.

Department of Education—Appropriating Proceeds from the Sale of Products of Manhattan Trade School for Girls to Special Trade School Fund (Cal. No. 61).

(On January 23, 1914, the resolution of the Board of Education in the above matter was referred to the Comptroller.)

The Secretary presented the following:

Board of Education, Park Avenue and 59th Street, New York, January 16, 1914.

Hon. WILLIAM A. PRENDERGAST, Comptroller:

Dear Sir—I have the honor to transmit herewith a certified copy of a resolution adopted by the Board of Education at a meeting held on January 14, 1914, relative to appropriating \$2,423.49 to the Special Trade School Fund.

Respectfully yours, A. E. PALMER, Secretary, Board of Education.

Whereas, In accordance with section 1066 of the Greater New York Charter, there has been deposited in the City Treasury the sum of two thousand four hundred and twenty-three and 49-100 dollars (\$2,423.49), representing proceeds realized from the sale of products of the Manhattan Trade School for Girls, for which a receipt has been received from the City Chamberlain and placed on file as follows:

No.	Date.	Amount.
43531	January 13, 1914	\$2,423.49

—therefore, be it

Resolved, That the Board of Estimate and Apportionment be, and it is hereby respectfully requested to appropriate the sum of two thousand four hundred and twenty-three and 49-100 dollars to the Special Trade School Fund, in accordance with section 1066 of the Greater New York Charter, as amended by chapter 35 of the Laws of 1913.

A true copy of resolution adopted by the Board of Education on January 14, 1914.

A. E. PALMER, Secretary, Board of Education.

The City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 24, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 14, 1914, the Board of Education requested the appropriation of \$2,423.49 realized from the sale of products of the Manhattan Trade School for Girls, and paid into the City Treasury, to the Special Trade School Fund, pursuant to section 1066 of the Greater New York Charter, as amended by chapter 35 of the Laws of 1913. The statute provides that all moneys realized from the sale of products

of trade and truant schools shall at once be appropriated to the said fund for use in the borough in which the property was sold.

I recommend the adoption of the attached resolutions granting the request and approving the schedules.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 1066 of the Greater New York Charter, as amended, hereby appropriates two thousand four hundred and twenty-three dollars and forty-nine cents (\$2,423.49), representing proceeds of sale of products of the Manhattan Trade School for Girls, to the Special Trade School Fund of the Borough of Manhattan, and transfers said moneys thereto from the suspense account entitled "Sales of Property by Department of Education."

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves the schedule as modified for the Department of Education, as follows:

Special Trade School Fund.

Borough of Manhattan \$14,113.71

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Sheriff, Bronx County—Modification of Schedule (Cal. No. 62).

The Secretary presented the following:

The City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 24, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 19, 1914, the Sheriff of Bronx County requested an appropriation to meet the 1914 salaries of the additional positions in his office. In connection therewith I report as follows:

The Sheriff states that he has appointed a Counsel at \$4,000 per annum, pursuant to chapter 825 of the Laws of 1913, and ten Deputy Sheriffs at \$2,500 per annum, and five Assistant Deputy Sheriffs, pursuant to chapter 548 of the Laws of 1912.

Chapter 825 of the Laws of 1913 provides, in part, as follows:

"* * * The Sheriff shall make the following appointments, and the annual salary of each appointee shall be as hereinafter specified: * * * Sheriff's Counsel at four thousand dollars per year."

Chapter 548 of the Laws of 1912 provides, in part, as follows:

"* * * The Sheriff shall make the following appointments, and the annual salary of each appointee shall be as hereinafter specified: * * * ten Deputy Sheriffs, at two thousand five hundred dollars; five Assistant Deputy Sheriffs, at one thousand five hundred dollars each. * * *"

No provision for the payment of the salaries of the Counsel, eight of the ten Deputy Sheriffs and three of the five Assistant Deputy Sheriffs has been made in the 1914 Budget. The said salaries amount to \$28,500.

On December 31, 1913, the Board of Estimate and Apportionment adopted a resolution, pursuant to the provisions of chapter 548 of the Laws of 1912, as amended by chapter 266 of the Laws of 1913, as amended by chapter 825 of the Laws of 1913, establishing the following positions and salaries thereof for the office of the Sheriff of Bronx County:

Title.	Rate Per Annum.	Number of Incumbents.
Clerk	\$1,500 00	2
Clerk	1,200 00	2
Stenographer	1,200 00	1
Messenger	1,200 00	1
Telephone Operator	750 00	1
Head Keeper	1,500 00	1
Keeper	1,000 00	3
Cook	300 00	1
Cleaner	600 00	1
Matron	\$3 per day.	1

The foregoing annual salaries amount to \$13,950, and at an estimated employment of two hundred days of the Matron at \$3 per day the total sum required to meet these salaries for 1914 is \$14,550. All of the salaries herein set forth are mandatory county charges and provision for the payment of the same will be made by the Comptroller in the necessary sum of \$43,050, pursuant to the provisions of subdivision 7 of section 188 of the Greater New York Charter.

I recommend the adoption of the attached resolution revising the appropriate salary schedule to include the new positions.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the office of the Sheriff of Bronx County, for the year 1914, to be effective on January 1, 1914, as follows:

SHERIFF, BRONX COUNTY.

Personal Service.

	Paid from Tax Levy	Paid from Special Revenue Bonds.	Total.
3300 Salaries, Regular Employees—			
Sheriff	\$10,000 00	.....	\$10,000 00
Under Sheriff	5,000 00	.....	5,000 00
Deputy Sheriff, 10 at \$2,500.....	5,000 00	\$20,000 00	25,000 00
Assistant Deputy Sheriff, 5 at \$1,500.....	3,000 00	4,500 00	7,500 00
Cashier	2,500 00	.....	2,500 00
Secretary	2,000 00	.....	2,000 00
Chief Clerk	1,500 00	.....	1,500 00
Counsel .....	.....	4,000 00	4,000 00
Clerk, 2 at \$1,500.....	3,000 00	3,000 00	6,000 00
Clerk, 2 at \$1,200.....	.....	2,400 00	2,400 00
Stenographer	1,200 00	1,200 00	1,200 00
Messenger	1,200 00	750 00	1,200 00
Telephone Operator	750 00	.....	750 00
Head Keeper	1,500 00	1,500 00	1,500 00
Keeper, 3 at \$1,000	3,000 00	3,000 00	3,000 00
Cook	300 00	300 00	300 00
Cleaner	600 00	600 00	600 00
Schedule total .....	.....	\$71,450 00	
Tax Levy Allowance .....	.....	\$29,000 00	
Rate of Special Revenue Bond Allowance.....	.....	42,450 00	
Total allowance .....	.....	\$71,450 00	

Fire Department—Modification of Schedules and Transfer of Appropriation (Cal. No. 63).

The Secretary presented the following:

Fire Department, January 13, 1914.

Hon. JOHN PURROY MITCHELL, Mayor, and Chairman Board of Estimate and Apportionment:

Sir—It is requested that the Board of Estimate and Apportionment approve the modification as shown by the attached schedule. This is for the purpose of providing funds to pay the salary of the Chief of the Bureau of Fire Prevention. No provision was made for the salary in 1913, and none has been made for 1914, the position being filled by a Deputy Chief of the uniformed force, who has retired:

Prompt action on this request is urged, as the Bureau of Fire Prevention is now without a head.

ROBERT ADAMSON, Fire Commissioner.

January 13, 1914.

Proposed Modification, 1914, Appropriation.

FROM

Code Account No. 1656, Fire Department, Personal Service, Salaries, Regular Employees, Fire Fighting, Extinguishing Fires, Operation..... \$6,000 00

TO

Code Account No. 1651, Fire Department, Personal Service, Salaries, Regular Employees, Fire Prevention, Executive..... \$6,000 00

By changing Schedule No. 1636:

Line, Firemen, All Grades, Including Mandatory Increases..... \$4,797,200 00 to read \$4,791,200 00

By Changing Schedule No. 1651:

Line, Chief of the Bureau of Fire Prevention to read 6,000 00

\$4,797,200 00 \$4,797,200 00

The City of New York, Department of Finance, Bureau of Municipal Investigation and Statistics, January 24, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 13, 1914, the Fire Commissioner requested modification of two salary schedules in his department and transfer of \$6,000 within appropriations for the year 1914. In connection therewith I report as follows:

It is proposed to add the line, Chief, at \$6,000, to Personal Service, Salaries, Regular Employees, Fire Prevention, No. 1656, Executive. The necessary money is to be transferred from Personal Service, Salaries, Regular Employees, Fire Fighting, Extinguishing Fires, No. 1656, Operation, and is provided by reducing the line Fireman, All Grades, Including Mandatory Increases, from \$4,797,200 to \$4,791,200. Provision was made for the position of Chief of the Bureau of Fire Prevention in the 1914 Budget in the appropriation for Fire Fighting. Deputy Chief Guerin, who occupied that position, was retired December 30, 1913. It is proposed to have the charge for the service in the proper schedule.

The grade of position is established in accordance with the provisions of section 56 of the Greater New York Charter. I recommend the adoption of the attached resolutions granting the request.

Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the Fire Department for the year 1914, as follows:

FROM

Personal Service, Salaries, Regular Employees, Fire Fighting, Extinguishing Fires.

1656 Operation \$6,000 00

TO

Personal Service, Salaries, Regular Employees, Fire Prevention. \$6,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate hereby approves of the schedules, as revised for the Fire Department for the year 1914, to be effective as of January 1, 1914, as follows:

Personal Service, Salaries, Regular Employees, Fire Prevention.

1651 Executive—	
Chief	\$6,000 00
Deputy Chief	4,000 00
Clerk	1,200 00
Clerk	1,050 00
Stenographer and Typewriter, 3 at \$1,050	3,150 00
Stenographer and Typewriter, 6 at \$900	5,400 00

Schedule total \$20,800 00

Fire Fighting, Extinguishing Fires.

1656 Operation—	
Captain, 298 at \$2,500	\$745,000 00
Captain	2,500 00
Lieutenant, 413 at \$2,100	867,300 00
Lieutenant, 2 at \$2,100	4,200 00
Engineer of Steamer, 496 at \$1,600	793,600 00
Fireman, All Grades, Including Mandatory Increases	4,791,200 00
Fireman, 4th Grade, 20 at \$1,000	20,000 00
Pilot, 22 at \$1,500	33,000 00
Marine Engineer, 12 at \$1,600	19,200 00

Schedule total \$7,276,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Education—Modification of Schedules (Cal. No. 64).

The Secretary presented the following:

Board of Education, Park Avenue and 59th Street, New York, January 17, 1914.

Mr. JOSEPH HAAG, Secretary, Board of Estimate and Apportionment:

Dear Sir—In accordance with a resolution adopted by the Board of Education on November 12, 1913, the undersigned respectfully request modifications in salary schedules for the year 1914, to take effect January 1, 1914, as follows:

851 Office of the Secretary—

Strike out:	
Clerk, 2 at \$1,350	\$2,700 00
Clerk, 2 at \$750	1,500 00
Clerk	540 00
Clerk, 2 at \$420	840 00
Stenographer and Typewriter	900 00

—and insert:

Clerk	\$1,350 00
Clerk	1,050 00
Clerk	750 00
Clerk, 2 at \$540	1,080 00
Clerk	480 00
Clerk	420 00
Stenographer and Typewriter	1,050 00
Unassigned balance	300 00

854 Office of the City Superintendent of Schools—

Strike out:	
Stenographer and Typewriter, 5 at \$1,350	\$6,750 00
Typewriting Copyist, 2 at \$1,350	2,700 00

—and insert:

Stenographer and Typewriter, 4 at \$1,350	\$5,400 00
Typewriting Copyist, 3 at \$1,350	4,050 00

853 Office of the Auditor—

Strike out:	
Clerk, 6 at \$1,500	\$9,000 00
Clerk	1,050 00
Clerk, 9 at \$540	4,860 00
Clerk, 4 at \$400	1,600 00
Examiner of Claims, 7 at \$1,500	10,500 00

—and insert:

Clerk	\$1,800 00
Clerk, 5 at \$1,500	7,500 00
Clerk, 2 at \$1,050	2,100 00
Clerk, 10 at \$540	5,400 00
Clerk, 3 at \$400	1,200 00
Examiner of Claims, 6 at \$1,500	9,000 00
Unassigned balance	10 00

857 Office of the Superintendent of School Buildings—

Strike out:	
Clerk	\$3,500 00
Clerk	1,950 00
Clerk	750 00

—and insert:

Clerk	\$4,000 00
Clerk	1,350 00
Stenographer and Typewriter	600 00
Unassigned balance	250 00

855 Office of the District Superintendents—

Strike out:	
Clerk, 2 at \$1,050	\$2,100 00
Clerk, 3 at \$900	3,600 00
Typewriting Copyist, 2 at \$750	1,500 00
Stenographer and Typewriter, 5 at \$900	4,500 00

—and insert:

Clerk, 3 at \$1,050	\$3,150 00
Clerk, 3 at \$900	2,700 00
Typewriting Copyist	750 00
Typewriting Copyist, 2 at \$600	1,200 00
Stenographer and Typewriter, 4 at \$900	3,600 00
Unassigned balance	300 00

861 Maintenance of Manhattan Truant School—

Strike out:	
Hospital Helper	\$300 00

—and insert:

Caretaker	\$300 00
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Modifications are required because in many cases there are inconsistencies between the schedules as set up and the payrolls, and early action is necessary in order that the payrolls for the current month may be passed.

The modifications herewith requested are based upon the schedule printed in the City Record of December 2, 1913, as part of the proceedings of the Board of Estimate and Apportionment held on October 31, 1913.

Copies of the schedules, as modified, are enclosed. Respectfully yours,

A. E. PALMER, Secretary, Board of Education; HENRY R. M. COOK, Auditor, Board of Education.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 26, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 17, 1914, the Board of Education requested modification of 1914 salary schedule 851, Office of the Secretary; 853, Office of the Auditor; 854, Office of the City Superintendent of Schools; 855, Office of the District Superintendents; 857, Office of the Superintendent of School Buildings, and 861, Maintenance of Manhattan Truant School. In connection therewith I report as follows:

In Schedule 851, it is proposed to change the lines "Clerk, 2 at \$1,350; Clerk, 2 at \$750; Clerk, 1 at \$540; Clerk, 2 at \$420; Stenographer and Typewriter, 1 at \$900," to read "Clerk, 1 at \$1,350; Clerk, 1 at \$1,050; Clerk, 1 at \$750; Clerk, 2 at \$540; Clerk, 1 at \$480; Clerk, 1 at \$420; Stenographer and Typewriter, 1 at \$900; balance unassigned, \$300."

In Schedule 853, it is proposed to change the lines "Clerk, 6 at \$1,500; Clerk, 1 at \$1,050; Clerk, 9 at \$540; Clerk, 4 at \$400; Examiner of Claims, 7 at \$1,500," to read "Clerk, 1 at \$1,800; Clerk, 5 at \$1,500; Clerk, 2 at \$1,050; Clerk, 10 at \$540; Clerk, 3 at \$400; Examiner of Claims, 6 at \$1,500; balance unassigned, \$10."

In Schedule 854, it is proposed to change the lines "Stenographer and Typewriter, 5 at \$1,350; Typewriting Copyist, 2 at \$1,350," to read "Stenographer and Typewriter, 4 at \$1,350; Typewriting Copyist, 3 at \$1,350."

In Schedule 855, it is proposed to change the lines "Clerk, 2 at \$1,050; Clerk, 4 at \$900; Typewriting Copyist, 2 at \$750; Stenographer and Typewriter, 5 at \$900," to read "Clerk, 3 at \$1,050; Clerk, 3 at \$900; Typewriting Copyist, 1 at \$750; Typewriting Copyist, 2 at \$600; Stenographer and Typewriter, 4 at \$900; balance unassigned, \$300."

The purpose of all the foregoing is to make the 1914 schedules conform with 1913 schedules as modified.

In Schedule 857 it is proposed to change the lines "Clerk, 1 at \$3,500; Clerk, 1 at \$1,950; Clerk, 1 at \$750," to read "Clerk, 1 at \$4,000; Clerk, 1 at \$1,350; Stenographer and Typewriter, 1 at \$600; balance unassigned, \$250."

This reduces a vacant Clerkship at \$750 per annum to a Stenographer and Typewriter at \$600 per annum for the purpose of providing a Stenographer and Typewriter for the office of the Deputy Superintendent of School Buildings in the Borough of The Bronx; reduces a vacant Clerkship at \$1,950 per annum to \$1,350 per annum; \$500 of the surplus is to increase the salary of J. E. Douglass, Acting Chief Clerk in Bureau of Buildings, from \$3,500 to \$4,000 per annum.

In Schedule 861, Maintenance of Manhattan Truant School, it is proposed to change the title "Hospital Helper," at \$300 per annum, to "Caretaker," at the same rate. The line item changes recommended are, in detail, as follows:

Code No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.

Code No.	Schedule Line.	Schedule Transfer.		Cash Transfer.		
		Decrease.	Increase.	Decrease.	Increase.	
855	Clerk, 2 at \$1,050.		\$1,050 00		\$1,050 00	
	Clerk, 4 at \$900.	\$900 00		\$900 00		
	Typewriting Copyist, 2 at \$750.	750 00		750 00		
	Typewriting Copyist, 2 at \$600.		1,200 00		1,200 00	
	Stenographer and Typewriter, 5 at \$900.	900 00		900 00		
	Balance unassigned		300 00		300 00	
			\$2,550 00	\$2,550 00	\$2,550 00	
857	Clerk, 1 at \$4,000.		\$4,000 00		\$4,000 00	
	Clerk, 1 at \$3,500.	\$3,500 00		\$3,500 00		
	Clerk, 1 at \$1,950.	1,950 00		1,950 00		
	Clerk, 1 at \$1,350.		1,350 00		1,350 00	
	Clerk, 1 at \$750.	750 00		750 00		
	Stenographer and Typewriter, 1 at \$600.		600 00		600 00	
	Balance unassigned		250 00		250 00	
			\$6,200 00	\$6,200 00	\$6,200 00	
861	Hospital Helper, 1 at \$300.	\$300 00		\$300 00		
	Caretaker, 1 at \$300.		300 00		300 00	
			\$300 00	\$300 00	\$300 00	
	I recommend the adoption of the attached resolution granting the request.					
	Respectfully,					
	WM. A. PRENDERGAST, Comptroller.					
	The following resolution was offered:					
	Resolved, That the Board of Estimate and Apportionment hereby approves the schedules, as modified for the Department of Education for the year 1914, as follows:					
	<i>Special School Fund, Personal Service, Salaries, Regular Employees, Administration.</i>					
851	Executive—					
	Secretary		\$5,500 00			
	Assistant Secretary		3,500 00			
	Chief Clerk		3,000 00			
	Clerk to Teachers' Council		2,500 00			
	Clerk		2,250 00			
	Clerk, 2 at \$2,100.		4,200 00			
	Clerk		1,950 00			
	Clerk		1,800 00			
	Clerk		1,500 00			
	Clerk		1,350 00			
	Clerk		1,050 00			
	Clerk		750 00			
	Clerk, 2 at \$540.		1,080 00			
	Clerk		480 00			
	Clerk		420 00			
	Clerk		300 00			
	Stenographer and Typewriter		2,750 00			
	Stenographer and Typewriter to the President		1,500 00			
	Stenographer and Typewriter, 4 at \$1,500.		6,000 00			
	Stenographer and Typewriter		1,050 00			
	Stenographer and Typewriter		600 00			
	Typewriting Copyist		1,200 00			
	Switchboard Operator		750 00			
	Switchboard Operator, 2 at \$600.		1,200 00			
	Librarian		1,200 00			
	Messenger		1,200 00			
	Balance unassigned		300 00			
	Schedule Total		\$49,380 00			
853	Audit and Accounts—					
	Auditor		\$5,500 00			
	Clerk		3,500 00			
	Clerk, 4 at \$2,100.		8,400 00			
	Clerk		1,800 00			
	Clerk, 5 at \$1,500.		7,500 00			
	Clerk, 2 at \$1,350.		2,700 00			
	Clerk, 6 at \$1,200.		7,200 00			
	Clerk, 2 at \$1,050.		2,100 00			
	Clerk, 6 at \$900.		5,400 00			
	Clerk, 3 at \$750.		2,250 00			
	Clerk, 3 at \$600.		1,800 00			
	Clerk, 10 at \$540.		5,400 00			
	Clerk, 2 at \$420.		840 00			
	Clerk, 3 at \$400.		1,200 00			
	Clerk, 7 at \$300.		2,100 00			
	Stenographer and Typewriter		1,500 00			
	Bookkeeper		2,600 00			
	Examiner of Claims, 6 at \$1,500.		9,000 00			
	Typewriting Accountant		1,050 00			
	Typewriting Accountant		900 00			
	Clerk, Bookkeeper or Statistician, 12 at \$1,500.		18,000 00			
	Unassigned balance		10 00			
	Schedule Total		\$90,750 00			
854	General Supervision—					
	Clerk, 2 at \$4,000.		\$8,000 00			
	Statistician		4,000 00			
	Clerk		3,500 00			
	Clerk, 3 at \$1,650.		1,950 00			
	Clerk, 6 at \$1,500.		4,950 00			
	Clerk, 5 at \$1,350.		9,000 00			
	Clerk, 6 at \$1,200.		6,750 00			
	Clerk, 5 at \$1,050.		7,200 00			
	Clerk, 6 at \$900.		5,250 00			
	Clerk		5,400 00			
	Clerk, 3 at \$420.		750 00			
	Clerk, 3 at \$300.		600 00			
	Statistician		540 00			
	Clerk with Knowledge of Statistics		1,260 00			
	Stenographer and Typewriter		900 00			
	Stenographer and Typewriter, 8 at \$1,500.		1,950 00			
	Stenographer and Typewriter, 4 at \$1,350.		5,400 00			
	Stenographer and Typewriter		1,200 00			
	Stenographer and Typewriter, 2 at \$1,050.		2,100 00			
	Stenographer and Typewriter, 3 at \$900.		2,700 00			
	Typewriting Copyist, 3 at \$1,350.		1,500 00			
	Typewriting Copyist		4,050 00			
	Typewriting Copyist		1,050 00			
	Typewriting Copyist		750 00			
	Printer for the Blind		600 00			
			900 00			
	Schedule Total		\$97,100 00			
	855 District Supervision—					
	Clerk, 3 at \$1,050		\$3,150 00			
	Clerk, 3 at \$900		2,700 00			
	Typewriting Copyist, 4 at \$900.		3,600 00			
	Typewriting Copyist		750 00			
	Typewriting Copyist, 2 at \$600.		1,200 00			
	Stenographer and Typewriter, 4 at \$900.		3,600 00			
	Stenographer and Typewriter, 2 at \$750.		1,500 00			
	Stenographer and Typewriter, 5 at \$600.		3,000 00			
	Balance unassigned		300 00			
	Schedule Total		\$19,800 00			
	857 Supervision of Building Construction and Alteration—					
	Superintendent of School Buildings		\$10,000 00			
	Deputy Superintendent of School Buildings, 3 at \$4,500.		13,500 00			
	Deputy Superintendent of School Buildings		3,500 00			
	Deputy Superintendent of School Buildings		3,000 00			
	Sanitary Assistant		3,500 00			
	Chief of Heating and Ventilating Division		4,000 00			
	Chief of Electrical Division		3,000 00			
	Clerk		4,000 00			
	Clerk		2,400 00			
	Clerk		1,350 00			
	Clerk		1,500 00			
	Clerk		2,700 00			
	Clerk		1,200 00			
	Clerk		900 00			
	Clerk		600 00			
	Clerk, 4 at \$540		2,160 00			
	Clerk		480 00			
	Clerk, 5 at \$300		1,500 00			
	Stenographer and Typewriter		1,650 00			
	Stenographer and Typewriter		1,500 00			
	Stenographer and Typewriter, 5 at \$1,350		6,750 00			
	Stenographer and Typewriter		1,050 00			
	Stenographer and Typewriter, 3 at \$900		2,700 00			
	Stenographer and Typewriter, 2 at \$750		1,			

In No. 756TCS the line Topographical Draftsman at \$1,200 is eliminated and the line Rodman at \$900 is added.

In No. 758TS the line "Topographical Draftsman, 2 at \$1,200" is changed to read "Topographical Draftsman, \$1,200" and the line "Rodman at \$900" is added.

These reductions, amounting to \$600, are used to provide for the transfer of M. F. Humphreys, Clerk at \$1,800, in the Bureau of Public Buildings and Offices, Borough of Manhattan.

In No. 750 the line Clerk at \$1,200 is changed to read Clerk at \$1,800.

This \$1,800 position is created for the purpose of the transfer.

The line changes in detail are as follows:

Ac- count No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Increase.	Decrease.	Increase.	Decrease.
756TCS	Topographical Draftsman, at \$1,200	\$1,200 00		\$1,100 00	
	Rodman, at \$900.....	\$900 00		\$825 00	
758TS	Topographical Draftsman, 2 at \$1,200.....		2,400 00		2,200 00
	Topographical Draftsman, at \$1,200	1,200 00		1,100 00	
	Rodman, at \$900.....	900 00		825 00	
750	Clerk, at \$1,200.....		1,200 00		1,100 00
	*Clerk, at \$1,800.....	1,800 00		1,650 00	
		\$4,800 00	\$4,800 00	\$4,400 00	\$4,400 00

I recommend the adoption of the attached resolutions granting the request. Respectfully,

WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment, pursuant to the provisions of section 237 of the Greater New York Charter, hereby approves transfer of funds appropriated to the office of the President of the Borough of Richmond for the year 1914, as follows:

FROM		
Engineering, Construction.		
756TCS	Tax Levy, Corporate Stock, Special and Trust Fund Force.....	\$275 00
	Topographical.	
758TS	Tax Levy and Special and Trust Fund Force.....	275 00

TO		
Personal Service, Salaries	Regular Employees, Administra-	
750	tion.	\$550 00

750	Executive	\$550 00
Which was adopted by the following vote:		

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedules, as revised, for the office of the President of the Borough of Richmond for the year 1914, to be effective as of February 1, 1914.

PRESIDENT, BOROUGH OF RICHMOND.

Personal Service, Salaries, Regular Employees, Administration.

750	Executive—	\$5,000 00
	President of the Borough	\$5,000 00
	Consulting Engineer (acting Commissioner of Public Works)	8,000 00
	Assistant Commissioner of Public Works.....	3,600 00
	Executive Clerk	3,500 00
	Secretary of the Borough	2,500 00
	Secretary to the Commissioner of Public Works.....	2,100 00
	Stenographer to the President	1,200 00
	Clerk	1,800 00
	Clerk, 2 at \$1,500	3,000 00
	Clerk	300 00
	Stenographer and Typewriter	1,500 00
	Messenger	1,200 00
	Messenger	720 00
	Telephone Operator	900 00
	Automobile Engineman	1,350 00
	Automobile Engineman	1,200 00

Schedule total	\$39,670 00
Engineering, Construction.	

756TCS	Tax Levy, Corporate Stock and Special and Trust Fund Force—	\$5,000 00
	Engineer	3,000 00
	Assistant Engineer	5,400 00
	Assistant Engineer, 2 at \$2,700.....	4,800 00
	Assistant Engineer, 2 at \$2,400.....	4,500 00
	Assistant Engineer, 2 at \$2,250.....	6,000 00
	Assistant Engineer, 3 at \$2,000.....	1,800 00
	Assistant Engineer, 2 at \$1,650.....	3,300 00
	Transitman, 2 at \$1,800	1,650 00
	Transitman	2,700 00
	Transitman, 2 at \$1,350	3,300 00
	Transitman and Computer, 2 at \$1,650.....	5,400 00
	Rodman, 4 at \$1,350	2,400 00
	Rodman, 2 at \$1,200	900 00
	Rodman	2,700 00
	Axeman, 3 at \$900	1,200 00
	Searcher	5,400 00
	Topographical Draftsman, 3 at \$1,800.....	6,000 00
	Topographical Draftsman, 4 at \$1,650.....	1,800 00
	Clerk	1,650 00
	Stenographer and Typewriter	1,650 00
	Typewriting Copyist	900 00
	Messenger	1,200 00
	Automobile Engineman	1,200 00
	Automobile Engineman	1,050 00
	Foreman	1,050 00

Schedule Total	\$80,150 00
Engineering, Construction.	

Tax Levy Allowance	\$36,350 80
Corporate Stock Allowance	32,799 20
Special and Trust Fund Allowance.....	11,000 00

Total Allowance	\$80,150 00
Topographical.	

758TS	Tax Levy and Special and Trust Fund Force—	\$3,600 00
	Principal Assistant Engineer	2,700 00
	Assistant Engineer	9,000 00
	Assistant Engineer, 4 at \$2,250.....	6,000 00
	Assistant Engineer, 3 at \$2,000.....	3,300 00
	Assistant Engineer, 2 at \$1,800.....	1,500 00
	Topographical Draftsman	2,000 00
	Topographical Draftsman, 2 at \$1,800.....	3,600 00
	Topographical Draftsman	1,650 00
	Topographical Draftsman	1,500 00

Topographical Draftsman	1,200 00
Junior Topographical Draftsman	1,050 00
Transitman and Computer, 2 at \$1,650.....	3,300 00
Transitman and Computer, 2 at \$1,350.....	2,700 00
Rodman, 2 at \$1,200.....	2,400 00
Rodman	900 00
Axeman, 9 at \$900.....	8,100 00
Stenographer and Typewriter	1,650 00
Clerk	1,350 00

Schedule Total

Tax Levy Allowance

Special and Trust Fund Allowance

Total Allowance

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Fire Department—Establishment of the Grade of the Position of Confidential Stenographer (Cal. No. 71).

The Secretary presented:

Communication from the Fire Commissioner, requesting the establishment in his Department of the grade of position of Confidential Stenographer, at \$1,800 per annum, for one incumbent.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

County Clerk, Bronx County—Establishment of Position of Watchman (Cal. No. 72).

The Secretary presented:

Communication from the County Clerk of Bronx County, requesting the establishment for his office of the position of Watchman at \$900 each per annum for four incumbents.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

Department of Parks, Borough of Queens—Issue of Corporate Stock (Cal. No. 73).

The Secretary presented:

Report of the Commissioner of Parks, Borough of Queens, referring to a communication from the Commercial Board of Bellaire, Borough

Code No.	Schedule Line.	Schedule Transfer.		Cash Transfer.	
		Decrease.	Increase.	Decrease.	Increase.
	Laborer, at \$2.50 per day (365 days)		\$3,650 00		\$3,650 00
	Balance unassigned		730 00		730 00
		\$4,380 00	\$4,380 00	\$4,380 00	\$4,380 00

I recommend the adoption of the attached resolution granting the request.

Respectfully, WM. A. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves of the schedule, as revised, for the National Guard and Naval Militia, County of New York, for the year 1914, to be effective as of January 1, 1914, as follows:

NATIONAL GUARD AND NAVAL MILITIA, COUNTY OF NEW YORK.
Personal Service, Wages, Regular Employees.

3153 First Regiment Cavalry—	Armorer, 1 at \$4 per day (365 days)	\$1,460 00
	Janitor, 1 at \$4 per day (365 days)	1,460 00
	Engineer, 1 at \$4 per day (365 days)	1,460 00
	Assistant Engineer, 1 at \$4 per day (365 days)	1,460 00
	Laborer, 17 at \$3 per day (365 days)	18,615 00
	Laborer, 4 at \$2.50 per day (365 days)	3,650 00
	Balance unassigned	730 00
		\$28,835 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen, and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Department of Education—Schedule for Appropriation for Music (Cal. No. 79).

The Secretary presented the following:

Board of Education, The City of New York, Office of the President, 500 Park Avenue, January 26, 1914.

Hon. WILLIAM A. PRENDERGAST, 31 Nassau Street, New York City:

My Dear Mr. Prendergast—Mr. Kenny and I have had a conference this afternoon with relation to the conduct of the City concerts covered by the appropriation of \$10,000 in the budget for 1914. After very thorough discussion, I am of the opinion that it would be inexpedient to make any change at this juncture regarding the organization agreed upon by the Committee of the Board of Education. A copy of the minutes of the meeting of that Committee and the proposed schedule introduced by it are enclosed.

I suggest that the matter be brought up for action before the Board of Estimate at its next meeting, as I am informed that several musical organizations have set dates on which they are willing to co-operate. Very truly yours,

T. W. CHURCHILL, President, Board of Education.

Board of Education Park Avenue and 59th Street, New York.

The Committee on Music met at 56 Wall street, New York City, on Monday, January 19, 1914, at 4:30 o'clock p. m.

Present—Mr. Alrick H. Man, Chairman, and Messrs. Harrison, Somers and Stein. Prof. Fleck was also present.

Prof. Fleck submitted his estimate for concerts to be given during the season of 1914, covering a period of four weeks, comprehending fifty-two concerts, with eight supplementary Sunday concerts, making sixty in all.

On motion, duly seconded, the following resolutions were unanimously carried:

Resolved, That the expense schedule for Sunday and weekly concerts for the season of 1914 as submitted by Prof. Fleck be and it is hereby approved for submission to the Board of Estimate and Apportionment.

Resolved, That the President of the Board of Education be and he hereby is requested to make application for the release of the money as needed.

On motion, the Committee adjourned. ALRICK H. MAN, Chairman; K. L. HARRISON, Secretary.

Department of Finance, City of New York, Bureau of Municipal Investigation and Statistics, January 29, 1914.

To the Board of Estimate and Apportionment:

Gentlemen—On January 26, 1914, the President of the Board of Education re-

MEMORANDUM OF FINANCIAL MATTERS, PENDING IN COMMITTEE, WITH REASSIGNMENTS TO COMMITTEES CREATED JANUARY 23, 1914.

Subject and Date of Reference.	Existing Committee.	New Assignment.
Rules and regulations for the government of the Board (January 14, 1910)	The Mayor, Comptroller and Presidents of the Boroughs of Brooklyn, Richmond and The Bronx	Committee on Organization of the Board.
Salaries paid in all City departments, work performed, titles of positions and rates of compensation, etc. (January 14, 1910)	The Mayor and Comptroller	Committee on Salaries and Grades.
Standardization of contracts and supply specifications, etc. (January 14, 1910)	The Mayor, Comptroller and President, Committee on Standardization of Supplies of Aldermen	Committee on Standardization of Supplies.
Snow removal contracts (February 19, 1910)	President, Board of Aldermen and President, Borough of Manhattan	Committee on Street Cleaning.
Authorizations of corporate stock (March 11, 1910), Reconstituted September 25, 1913.	Comptroller, and Presidents of the Boroughs of Manhattan, Brooklyn and The Bronx	Committee on Corporate Stock Budget.
Budgetary publicity (May 20, 1910)	President, Borough of Manhattan, Comptroller and President, Board of Aldermen	Committee on Tax Budget.
West Side Railroads and Terminal Improvements (June 24, 1910), Reconstituted July 31, 1913	President, Borough of Manhattan; Comptroller; President, Borough of The Bronx; Commissioner of Docks and Chief Engineer of Board	Committee on Port and Terminal Facilities.
South Brooklyn Terminal Improvement (May 9, 1912), Reconstituted July 31, 1913	Comptroller; President, Board of Aldermen; President, Borough of Brooklyn; Commissioner of Docks and Chief Engineer of Board	Committee on Port and Terminal Facilities.
Formulation of Budget (September 23, 1910), Reconstituted September 25, 1913	Comptroller; President, Borough of Manhattan; President, Borough of Brooklyn; Commissioner of Docks and Chief Engineer of Board	Committee on Tax Budget.
Creation of Position of City Architect (December 1, 1910)	President, Borough of The Bronx; President, Borough of Richmond, and President, Borough of Manhattan	To be discharged.
School Inquiry (December 9, 1910)	Comptroller; President, Borough of The Bronx; President, Board of Aldermen (Chairman)	Committee on Education.
Inquiry into Departments of Health, Public Charities and Bellevue and Allied Hospitals (December 9, 1910)	President, Borough of Manhattan and President, Borough of Richmond	Committee on Social Welfare.
Standardization of Salaries and Grades (December 9, 1910)	Comptroller; President, Borough of Manhattan, and President, Borough of Brooklyn	Committee on Salaries and Grades.
Registering titles to property acquired by the City, under the "Torrens Law" (January 19, 1911)	President, Borough of The Bronx and President, Board of Aldermen	Committee on Assessments.
Reclassification of Laborers in the employ of The City of New York (March 16, 1911)	Comptroller; President, Borough of Manhattan, and President, Borough of Richmond	Committee on Salaries and Grades.
Membership of The City of New York in the Atlantic Deeper Waterways Association (December 21, 1911)	President, Borough of Queens, and President, Borough of The Bronx	To be discharged.
Street Cleaning by flushing system (February 9, 1911)	President, Board of Aldermen; President, Borough of Manhattan; Commissioner of Street Cleaning and Commissioner of Water Supply, Gas and Electricity	Committee on Street Cleaning.
Establishment of positions and grades (originally appointed in 1906)	Comptroller and President, Board of Aldermen	Committee on Salaries and Grades.

sought aproval of schedules of expenditure for the special appropriation of \$10,000 for free concerts made in the 1914 Budget under the jurisdiction of the Department of Education. Early action was suggested as several musical organizations have already set dates on which they are willing to co-operate in the giving of such concerts. In connection therewith I report as follows:

A similar allowance of \$10,000 for such concerts was provided in 1913 by the issue of special revenue bonds. The concerts were given by Professor Henry P. Fleck, under the jurisdiction of the Normal College of The City of New York. The 1914 allowance therefor was included in the Budget of the Board of Education and its expenditure conditioned by rules to be established by the Board of Estimate and Apportionment. The schedules as submitted by Professor Fleck have been approved by the Special Committee of the Board of Education in charge of the matter and by the Department of Finance.

I recommend the adoption of the attached resolution approving the schedule. Respectfully, WM. M. PRENDERGAST, Comptroller.

The following resolution was offered:

Resolved, That the Board of Estimate and Apportionment hereby approves schedules of expenditure for the special appropriation of \$10,000 for Free Concerts which was made to the Department of Education in the Budget for 1914, as follows:

SPECIAL SCHOOL FUND.
Contract or Open Order Service.

968½ Music—	This appropriation not to be available except in accordance with rules to be established by the Board of Estimate and Apportionment.
1 Wages, Temporary Employees—	
For Fifty-two Weekly and Sunday Concerts:	
Musician, 27 at \$30 per week (4 weeks each)	\$3,240 00
Concertmaster and Assistant Conductor, 1 at \$75 per week (4 weeks)	300 00
Assistant Concertmaster, 1 at \$20 per week (4 weeks)	80 00
Extra Musician for Sunday Concerts, 8 at \$7 per Concert (4 Sundays each)	224 00
General Manager, 1 at \$75 per week (6 weeks)	450 00
Assistant Manager, 1 at \$25 per week (6 weeks)	150 00
Musical Director, 4 at \$25 per night (7 nights each)	700 00
Soloist, 4 at \$200 per week (1 week each)	800 00
Typewriter, 1 at \$15 per week (6 weeks)	90 00
For Eight Supplementary Sunday Concerts:	
Musician, 34 at \$7 per concert (8 concerts each)	1,904 00
Concertmaster, 1 at \$14 per concert (8 concerts)	112 00
Manager, 1 at \$25 per concert (8 concerts)	200 00
Musical Director, 1 at \$25 per concert (8 concerts)	200 00
Soloist, 1 at \$50 per concert (8 concerts)	400 00
2 Transportation—	
Transportation of instruments, except pianos:	
57 concerts, at \$4 per concert	\$228 00
Carfare for orchestra	20 00
	248 00
3 Supplies—	
Music, \$10 per week for 4 weeks	\$40 00
Stamped envelopes, stationery, etc., except programs	100 00
	140 00
4 Contingencies—	
Reserve for other concerts, possible janitorial service, etc., subject to discretion of Musical Committee and Director	762 00
Total	\$10,000 00

Which was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, Queens and Richmond—15.

Negative—The President of the Borough of The Bronx—1.

Reassignment of Financial Matters, Pending in Committees, to Standing Committees of the Board Created January 23, 1914 (Cal. No. 80).

The Secretary presented a memorandum of all Financial Matters pending in Committees, with suggested assignments to appropriate Committees, as follows:

Subject and Date of Reference.	Existing Committee.	New Assignment.
Contracts for final disposition of City refuse (February 29, 1912).....	President, Borough of Manhattan; President, Board of Aldermen, and President, Borough of Richmond	Committee on Street Cleaning.
Amendment of Fire Protection Laws (March 30, 1911).....	President, Borough of Richmond; President, Borough of Brooklyn, and President, Borough of The Bronx.....	Committee on Revision of City Charter.
Preparation of plan and draft of bill for creation of a Commission on City Planning (January 18, 1912)	Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Richmond and Queens	To be discharged.
Disposition of area contained within Rockaway Beach Park for park and hospital purposes, etc. (April 11, 1912).....	President, Board of Aldermen; Comptroller, and Presidents, Boroughs of Manhattan and Queens	Committee on Social Welfare.
Retirement of City employees, pursuant to chapter 669, Laws of 1911, as amended by chapter 479, Laws of 1912 (October 5, 1911).....	Comptroller and President, Board of Aldermen (Committee on Salaries and Grades)	Committee on Salaries and Grades.
Consideration of report of Committee on New Sources of City Revenue (February 6, 1913)	Comptroller; President, Board of Aldermen and President, Borough of Richmond	Committee on Tax Budget.
Construction of an industrial railroad in The Bronx to connect with proposed new dock system (March 6, 1913).....	Comptroller; President, Board of Aldermen, and Presidents, Boroughs of Manhattan and The Bronx.....	Committee on Port and Terminal Facilities.
Lecture course by public officials on New York's Municipal Business, as outlined by Bureau of Municipal Research (April 3, 1913).....	President, Borough of The Bronx; President, Borough of Richmond, and President, Board of Aldermen	To be discharged.
Appropriation for exhibiting in The City of New York British Town and City Planning Exhibit (May 15, 1913).....	Comptroller; Presidents, Boroughs of Manhattan, Brooklyn and The Bronx (Budget Committee)	To be discharged.
Repaving streets affected by subway construction (May 8, 1913).....	President, Borough of Manhattan; President, Borough of The Bronx, and President, Borough of Richmond (Transit Conference Committee)	Committee on City Plan.
Administration of public recreation in The City of New York (May 29, 1913).....	President, Board of Aldermen; Comptroller, and President, Borough of Queens	Committee on Social Welfare.
General policy of making repairs to Washington and Fulton Markets (July 3, 1913)	Referred to Mayor's Commission on Markets (President, Borough of The Bronx, President, Board of Aldermen, and President, Borough of Manhattan)....	Committee on Markets.
Establishment of markets for pushcart traffic (July 31, 1913).....	Comptroller; President, Borough of Manhattan, and President, Borough of Brooklyn	Committee on Markets.
Painting of portrait of the late Mayor, Hon. William J. Gaynor (September 25, 1913)	President, Borough of The Bronx; President, Borough of Brooklyn, and Comptroller	Special Committee Continued.
Appropriation for altering and equipping Queensboro Bridge for rapid transit railroads (November 13, 1913).....	Transit Conference Committee and Corporate Stock Budget Committee.....	Committee on Transit.
Representation and exhibit by The City of New York at the Panama-Pacific Exposition (resolution adopted July 10, 1913).....	Committee to be appointed by the Mayor, two members from Board of Estimate and Apportionment, and two members from Board of Aldermen; Mayor to be Chairman of Committee.	Special Committee to be appointed by Mayor.
Conference with Justices of the Supreme Court, 2d Department, regarding site for new Court House in Kings County (November 26, 1913).....	The Mayor, the Comptroller and the President, Borough of Brooklyn	Committee on City Plan.
Continuance of Brooklyn Disciplinary Training School for Boys (July 31, 1913), (January 9, 1914). Referred to committee, President of Brooklyn and President of The Bronx	Deputy Comptroller; President, Borough of Brooklyn, and President, Board of Aldermen	Committee on Tax Budget.
Acquisition of privately owned water companies in all Boroughs (January 30, 1913)	Lawrence Godkin, Nelson P. Lewis (Chief Engineer of Board), Chester B. Lawrence	Committee on Corporate Stock Budget; Special Committee to be continued.
Communication from Commissioner of Water Supply, Gas and Electricity, relative to discontinuing study and tests of various types of filters and filtration plants for which purpose Board appropriated \$50,000 Corporate Stock on May 22, 1913 (August 28, 1913)	Corporate Stock Budget Committee.....	Committee on Corporate Stock Budget.
Contract with Queens County Water Company for rental of fire hydrants in Borough of Queens (May 22, 1913).....	The Comptroller and Chief Engineer of the Board	Committee on Tax Budget.
Protest of Patrick J. Knowles, employee in Department of Public Charities, against change in title from Butcher to Hospital Helper (June 12, 1913).....	Committee on Inquiry into Departments of Health, etc.	To be discharged.
Communication from Commissioner of Water Supply, Gas and Electricity relative to improving sanitary condition of Croton Water (October 2, 1913).....	Corporate Stock Budget Committee.....	Committee on Corporate Stock Budget.
Communication from President of Borough of Richmond in relation to elimination of appropriation for care and maintenance of roads in the Borough of Richmond from tentative Budget for 1914 (October 30, 1913).....	Chief Engineer of Board and Consulting Engineers of various Boroughs.....	Committee on Assessments.
Communication from Department of Health requesting approval of establishment of various new Bureaus in said Department (November 13, 1913).....	Committee on Inquiry into Department of Health, etc.	Committee on Social Welfare.
Report and formulation of plans for utilization of the water supply from the Catskill Reservoir (December 18, 1913).....	Corporate Stock Budget Committee and following Committee of Engineers: Chief Engineer of Board, Chief Engineer of Board of Water Supply, Chief Engineer of Department of Water Supply, Gas and Electricity, and Engineer in Department of Finance.....	Committee on Corporate Stock Budget.
Report of Committee on Finance of Board of Aldermen, rejecting resolution of Board of Estimate and Apportionment, rescinding resolution authorizing issue of \$18,000 corporate stock for laying 12-inch water main under East River to North Brother Island (December 18, 1913).....	Corporate Stock Budget Committee and Chief Engineer of Board.....	Committee on Corporate Stock Budget.
Payment of City's share of expense of work done by Long Island Railroad Company in widening bridge carrying tracks of railroad (New York and Rockaway Beach Division) over Jamaica avenue, 3d Ward, Borough of Queens (December 31, 1913).....	Comptroller and Chief Engineer of Board Special Committee Continued.	
Approval of contract for filing equipment, lockers and shelving for the Municipal Building (January 9, 1914)	Comptroller; President, Borough of Manhattan, and Commissioner of Bridges..	Special Committee continued.
Communication from Public Education Association of New York, requesting Board to support plan for appointment by Governor of a Commission to draft an educational section to replace present educational provisions of Charter (March 27, 1913).....	School Inquiry Committee.....	Committee on Revision of City Charter.
Report of Comptroller relative to establishment of Central Garage for City owned automobiles (January 9, 1914).....	Committee to be appointed by the Mayor, Special Committee to be appointed by the of which he shall be Chairman. Mayor.	
Communication from Max Unger, M. D., relative to plan for remedying existing conditions and changes in method of caring for and controlling contagious disease cases in City hospitals (January 23, 1914).....	Committee on Inquiry into Departments of Health, etc.	Committee on Social Welfare.

The President of the Board of Aldermen moved that the foregoing matters be assigned to the new Committees, as suggested in the memorandum.

Which motion was carried.

President, Borough of The Bronx—Establishment of the Position of Elevatorman and Female Attendant (Cal. No. 81).

The Secretary presented:

Communication from the President, Borough of The Bronx, requesting the establishment of the positions of Elevatorman at \$840 per annum for 5 incumbents and Female Attendant at \$600 per annum for 2 incumbents in connection with the organization of the maintenance force employed in the Bronx County Court House, the occupancy of same having been taken by the City on January 1, 1914.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

The following Financial matters, not on the calendar for this day, were considered by unanimous consent:

Board of Estimate and Apportionment—Printing of Personnel of Standing Committees on Calendars (No. 82).

By direction of his Honor the Mayor, the Standing Committees of the Board were ordered printed on the first page of the calendar for each meeting.

Second Field Artillery, N. G., N. Y.—Appointment of Expert Laborer and Laborers (No. 83).

The Secretary presented:

Communications (3) from Lieutenant-Colonel Frank H. Hines, 2d Field Artillery,

N. G. N. Y., notifying the Board of the appointment of an expert laborer at \$3 per day, two laborers at \$3 each per day and an armorer at \$4 per day in the armory of said organization.

Which were ordered filed.

Department of Parks, Borough of Brooklyn—Issue of Corporate Stock (No 84).

The Secretary presented:

Communication from the Commissioner of Parks, Borough of Brooklyn, requesting the issue of \$735,577.50 corporate stock for the completion, construction and equipment of the Museum Building and the Children's Museum Building in Bedford Park, additions to the Laboratory Building and for top grading, etc., Brooklyn Institute of Arts and Sciences and enclosing in support of said request a communication from the director of said institute.

Which was referred to the Committee on Corporate Stock Budget, consisting of the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Brooklyn and The Bronx.

City Magistrates' and Children's Court and Court of Domestic Relations, Borough of Brooklyn—Appointment of Interpreter (Lithuanian) (No 85).

The Secretary presented:

Petition of numerous citizens for the appointment of a Lithuanian Interpreter for the City Magistrates' and Children's Courts and The Court of Domestic Relations in Brooklyn.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

President, Borough of Manhattan—Establishment of the Grade of Position of Cleaner (No. 86).

The Secretary presented:

Communication from the President of the Borough of Manhattan for the establishment of the grade of position of cleaner at \$540 per annum for an unlimited number of incumbents in connection with the operation of the Municipal Building.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

Department of Education—Fixing Salaries of Janitors (No. 87).

The Secretary presented:

Communication from the Secretary, Board of Education, transmitting certified copy of resolution adopted by said Board on January 28, 1914, requesting the fixation of the compensation of the janitors of various public schools.

Which was referred to the Committee on Salaries and Grades, consisting of the Comptroller and the President of the Board of Aldermen.

Department of Docks and Ferries—Improvement and Development of Jamaica Bay (No. 88).

The Secretary presented:

Communication from the Secretary, The Manufacturers' and Business Men's Association of New York, enclosing copy of resolutions adopted by said association urging the Board to proceed with the improvement and development of Jamaica Bay.

Which was referred to the Committee on Port and Terminal Facilities, consisting of the Comptroller, the Presidents of the Boroughs of Manhattan and Brooklyn and the Dock Commissioner.

Board of Estimate and Apportionment, Committee on Assessments—Form of Notice in Advertising Assessment Matters (No. 89).

The President of the Board of Aldermen moved that the Committee on Assessments be requested to report to the Board an improved plan for advertising assessment proceedings.

Which motion was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

Board of Estimate and Apportionment, Committee on Street Cleaning—Authority to Be Represented at Albany During Discussion of Bill Relative to Refuse Disposal Plants (No. 90).

The President of the Board of Aldermen moved that the Committee on Street Cleaning be authorized to be represented at Albany during the discussion of the Bill to permit of Refuse Disposal Plants.

Which motion was adopted by the following vote:

Affirmative—The Mayor, the Comptroller, the President of the Board of Aldermen and the Presidents of the Boroughs of Manhattan, Brooklyn, The Bronx, Queens and Richmond—16.

On motion, the Board adjourned to meet Friday, February 6, 1914, at 10.30 o'clock, a. m.

JOSEPH HAAG, Secretary.

BOROUGH OF QUEENS.**QUARTERLY REPORT OF THE PRESIDENT OF THE BOROUGH OF QUEENS.**

January 30, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, City of New York:

Dear Sir—I most respectfully transmit herewith for publication in the City Record the quarterly report of the various Bureaus under my jurisdiction for the quarter ending December 31, 1913.

Very truly yours, JAMES A. DAYTON, Commissioner of Public Works and Acting President, Borough of Queens.

OFFICE OF THE COMMISSIONER OF PUBLIC WORKS.

Long Island City, New York, N. Y., January 31, 1914.

Hon. JOHN PURROY MITCHEL, Mayor, City of New York:

Dear Sir—In accordance with the provisions of section 1544 of the Greater New York Charter I transmit herewith the following report of the transactions of the Office of the Commissioner of Public Works, Borough of Queens, for the quarter ending December 31, 1913:

Public Moneys Received During the Quarter—For restoring and repaving pavement, \$2,318; for vault permits, \$1,273.67; for sewer connections, \$2,770; total, \$6,361.67.

Requisitions Drawn on the Comptroller—General administration, \$51,893.54; Bureau of Highways, \$389,895.91; Bureau of Sewers, \$476,790.28; Bureau of Street Cleaning, \$108,867.44; Bureau of Public Buildings and Offices, \$28,885.14; Topographical Bureau, \$58,748.26; Bureau of Substructures and Franchises, \$3,655.55; total, \$1,118,736.12.

Permits Issued—Permits to open streets to tap water pipes, 458; permits to open streets to repair water connections, 127; permits to open streets to make sewer connections, 420; permits to open streets to repair sewer connections, 22; permits to place building material on streets, 126; permits to construct street vaults, 49; special permits, 936; permits to cross sidewalks, 92; permits to erect awnings, 2; permits for subways, steam mains and various connections, 853; permits to repair sidewalks, 151; permits for sewer connections, 458; total, 3,694.

Respectfully submitted, JAMES A. DAYTON, Commissioner of Public Works and Acting President, Borough of Queens.

BUREAU OF HIGHWAYS.

Borough Building, Long Island City, New York January 6, 1914.

Public Moneys Received—For restoring and repaving pavement, water connections, openings, \$3,218; sewer connections, openings, \$2,074; general account, \$478; for vault permits, \$1,273.67; total, \$7,043.67.

Permits Issued—Permits to open streets to tap water pipes, 458; permits to open streets to repair water connections, 127; permits to open streets to make sewer connections, 420; permits to open streets to repair sewer connections, 22; permits to place building material on streets, 126; permits to construct street vaults, 49; permits, special, 936; permits to cross sidewalks, 92; permits to erect awnings, 2; permits for subways, steam mains and various connections, 853; permits to repair sidewalks, 151; total, 3,236.

Maintenance of Highways—Repaving and renewal of pavements: Boulevards, roads and avenues, maintenance of; roads, streets and avenues; maintenance of viaducts and bridges: Average total, Mechanics, including Foremen, 93; Laborers, 303; teams, 58; horses and carts, 95; Steam Roller Engineers, average, 9.

Statement.

	First Ward.	Second Ward.	Third Ward.	Fourth Ward.	Fifth Ward.	Total.
Macadamized Streets.						
Square yards of macadam pavement repaired	2,000	7,880	12,538	4,042	26,460	
Square yards of macadam pavement cleaned	11,219	12,351	24,274	41,442	89,286	
Square yards of macadam pavement resanded	750	....	4,816	2,160	7,726	
Square yards of macadam road picked up	9,990	10,805	941	358	22,094	
Square yards of broken stone spread on bottom	130	10,461	18,290	220	7,351	36,452
Square yards of macadam pavement sanded and screened	186	23,750	45,960	226	89,695	159,817
Square yards of macadam pavement finished	160,112	151,801	220	19,435	331,568	
Square yards of dirt wings honed	18,367	87,141	17,889	113,349	236,746	

	First Ward.	Second Ward.	Third Ward.	Fourth Ward.	Fifth Ward.	Total.	
Pounds of nails used.....	40	....	....	....	....	40	linear feet 5 feet reinforced concrete sewer, .65 linear feet 4 feet 9 inches by 4 feet
Number of 4-inch by 4-inch by 12-foot spruce posts used.....	22	....	....	....	....	22	6 inches reinforced concrete sewer, 272 linear feet 4 feet 9 inches reinforced concrete sewer, 412.28 linear feet 4 feet 6 inches reinforced concrete sewer, 863.62 linear feet
Loads of old material removed.....	224	20	27	....	....	271	3 feet 6 inches concrete sewer, 1,827.95 linear feet 2 feet 6 inches concrete sewer, 28.08 linear feet 4 feet concrete sewer, 1.85 linear feet 3 feet 9 inches
B. M. feet timber used in repairs.....	4,266	....	....	....	....	4,266	concrete sewer, 3.22 linear feet 3 feet 3 inches concrete sewer, 1,802.13 linear feet 3 feet concrete sewer, 1,492.17 linear feet 24-inch vitrified salt glazed pipe sewer, 752.10 linear feet 22-inch vitrified salt glazed pipe sewer, 2,637.12 linear feet
Cubic yards of trenches excavated.....	459	177	87	10	733	20-inch vitrified salt glazed pipe sewer, 5,049.44 linear feet 18-inch vitrified salt glazed pipe sewer, 5,329.17 linear feet 15-inch vitrified salt glazed pipe sewer, 29,085.65 linear feet 12-inch vitrified salt glazed pipe sewer, 484.30 linear feet 10-inch vitrified salt glazed pipe sewer, 40 linear feet 12-inch cast iron culvert pipe, 2,680.50 linear feet 12-inch vitrified salt glazed culvert pipe, 326 linear feet 10-inch vitrified salt glazed culvert pipe, 37,049 linear feet 6-inch vitrified salt glazed pipe for house connections, 1,63 linear feet 20-inch cast iron pipe sewer, 3.09 linear feet 12-inch cast iron pipe sewer, 62 linear feet 18-inch cast iron pipe, 12 20-inch by 6-inch cast iron tees, 6 12-inch by 6-inch cast iron tees, 19 12-inch by 6-inch Y's, 3 feet long; 1 6-foot	
Loads of dirt put on.....	107	....	....	....	....	107	equalizing chamber, 91,520.67 linear feet of piles, 462,868.32 feet B. M. timber for bracing and sheet piling, 56,557.95 feet B. M. timber for foundation, 1,760 cubic yards
Linear feet of pipe laid.....	1,986	300	506	118	2,910	73,911.71 pounds of steel reinforcement, 91 risers for house connections, 96 receiving basins, 22 double receiving basins, 384 manholes, 4 junction chambers, 1 drop chamber, 5 drop manholes, 2 sewer manholes, 5 cleaning shafts:	
Cubic yards of concrete laid.....	2	....	....	....	....	2	The following contracts have been completed:
Loads of supplies used.....	34	....	1	....	....	35	Hunters Point ave., Greenvale ave. to Van Pelt st. \$29,001.50
Cubic yards of filling.....	185	....	37	....	....	222	Hancock st., Webster ave. to Crown north of Pierce ave. 7,165.39
Bags of cement used.....	....	....	1	....	....	2	Flushing ave., Metropolitan ave. to Caspian st. 14,299.91
Linear feet of culverts cleaned.....	228	80	....	....	....	308	Rockaway road, Lefferts ave. to Freedom ave. 179,222.82
Square yards of culverts built.....	....	....	....	....	3	Bleeker st., Seneca ave. to Fairview ave. 7,172.58	
Square yards of culverts repaired.....	12	....	....	....	....	12	Orton st., Thompson ave. to Hunters Point ave. 160,263.53
Number of 3-inch by 12-inch plank used.....	16	26	....	....	....	42	Jamaica ave., Greenwood ave. to North Vine st. 33,147.64
Square yards of culverts cleaned.....	165	....	1,600	....	....	1,765	Jerome ave., Ocean ave. to Greenwood ave. 29,012.41
Lengths of pipe used.....	3	....	....	....	....	3	Lefferts ave., Liberty ave. to Atlantic ave. 9,326.92
Linear feet of timber used.....	187	....	....	....	....	187	Nott ave., Van Dam st. to Hulst st. 22,850.40
Bridges.	....	....	....	....	....	....	Jerome ave., Lefferts ave. to Maure ave. 17,897.32
B. M. feet timber used in repairs.....	536	....	....	....	....	536	Orton st., Thompson ave. to Hunters Point ave. 14,275.48
Linear feet of plank used.....	20	....	....	....	....	20	Jamaica ave., Greenwood ave. to North Jane st. 1,133.96
Linear feet of 6-inch by 6-inch guard rail built.....	75	....	....	....	....	75	Receiving basins, northwest corner of Washington and 7th aves. 156.25
Linear feet of bridges repaired.....	....	26	....	....	....	26	Radde st., Webster ave. to Crown 250 feet north of Payntar ave. 4,068.96
Pounds of nails used.....	....	32	....	....	....	32	Receiving basins on Lefferts ave. 1,207.71
Loads of sand used.....	8	....	....	....	....	8	Receiving basins, Willow st. and Franklin ave. 166.30
Trees and Weeds.	....	....	....	....	....	....	Six-inch house connections, Webster ave., Vernon ave. to William st. 632.05
Square yards of weeds cut down and removed.....	3,086	3,880	29,980	....	....	36,946	Six-inch house connections, Woolsey ave., Steinway ave. to 2d ave. 1,493.50
Loads of weeds hauled away.....	....	10	10	....	....	20	Receiving basins, Liberty ave. and Stoothoff ave. 959.15
Number of dead trees removed.....	....	....	2	....	....	2	Queens ave., Elton st. to Parsons ave. 12,616.00
Catch Basins.	....	....	....	....	....	....	Murray st., Franconia ave. to Bayreuth st. 8,305.04
Cubic yards of masonry built.....	....	58	....	....	....	58	Hamilton ave., Liberty ave. to Jerome ave. 17,230.06
Cubic yards of excavation.....	....	10	....	....	....	10	Beaufort ave., Lefferts ave. to Maure ave. 182.00
B. M. feet of timber used.....	....	132	....	....	....	132	Elton st., California ave. to Sanford ave. 12,628.06

BUREAU OF HIGHWAYS, ENGINEER'S OFFICE.

Borough Building, Long Island City, New York, January 14, 1914.

JAMES A. DAYTON, Esq., Commissioner of Public Works:

Dear Sir—Herewith I again transmit in duplicate report of work done by the Engineering Division of the Bureau of Highways during the quarter ending December 31, 1913, together with statement showing contracts completed during the same period, which was forwarded to you under date of January 6, 1913, and which Mrs. McGee is looking for. Respectfully, J. H. WEINBERGER, Engineer of Highways.

Contracts completed during the quarter ending December 31, 1913, Bureau of Highways, Borough of Queens:

	Ward.	Completed.	Amount.
George st., Wyckoff ave. to Cypress ave.....	2	12-23-13	\$6,315.61
Willow st., Main st. to Hoyt ave.....	1	12-27-13	10,119.44
Onderdonk ave., Elm st. to Suydam st.....	2	12-23-13	2,878.10
Norman st., Wyckoff ave. to Cypress ave.....	2	12-26-13	5,173.62
Prospect st., Freeman ave. to Webster ave.....	1	11-18-13	5,066.27
Skillman place, etc., Jackson ave. to Hunter.....	1	12-26-13	1,588.13
Fresh Pond road, Myrtle ave. to Woodbine st.....	2	12-20-13	34,816.51
Sunswick st., North Jane st. to Payntar ave.....	1	11-6-13	44,766.87
Sea Girt ave., Beach 29th to Beach 27th st.....	5	10-1-13	4,667.55
Seneca ave., Putnam ave. to Cornelius st.....	2	10-1-13	4,665.49
West ave., Borden ave. to Canal.....	1	12-1-13	35,227.00
Fairview ave., Forest ave. to Woodbine st.....	2	11-13-13	2,107.45
Madison st., Woodward ave. to Forest ave.....	2	10-28-13	2,146.90
Vandeventer ave., 2d ave. to 6th ave.....	1	12-22-13	8,610.12
William st., North Jane st. to Beebe ave.....	1	11-18-13	15,851.99
Webster ave., Vernon ave. to Jackson ave.....	1	11-29-13	62,299.24
Napier ave., Jamaica ave. to Atlantic ave.....	4	10-1-13	583.81
Flushing ave., Van Alst ave. to North Henry st.....	1	10-24-13	15,407.47
Borden ave., Front st. to Creek st.....	1	12-6-13	89,422.60
Steinway ave., Washington ave. to Flushing ave.....	1	12-20-13	82,316.09
Hancock st., Cypress ave. to Wyckoff ave.....	2	11-9-13	2,192.77
Sheet asphalt repairs in 2d and 4th Wards.....	12-19-13	18,723.34	
Sheet asphalt repairs in 1st and 3d wards.....	12-3-13	10,759.20	
Street signs, all wards.....	10-23-13	3,919.90	
Sea wall along Willlets Point road.....	3	11-18-13	25,811.28
Cypress ave., Myrtle ave. to Cooper st.....	2	10-2-13	40,941.87
Boulevard, Payntar ave. to Webster ave.....	1	10-24-13	19,462.40
Vernon ave. and Boulevard, 4th st. to Fulton ave.....	1	11-11-13	153,615.83
Hamilton st., Payntar ave. to Webster ave.....	1	10-30-13	6,428.40

Twenty-nine contracts completed, amounting to..... \$675,877.25

Work done by the Engineering Division, Bureau of Highways, during the quarter ending December 31, 1913—53,016 cubic yards of earth excavation; 882 cubic yards of rock excavation; 18,535 cubic yards of embankment furnished; 23,271 linear feet new bluestone curb set; 6,914 linear feet old bluestone curb reset; 15,571 linear feet new concrete curb set; 26 linear feet of old concrete curb reset; 69,644 linear feet new bluestone sidewalk laid; 91,378 linear feet of old bluestone sidewalk relaid; 162,243 linear feet cement sidewalk laid; 2,519 square feet new crosswalks laid; 15,818 cubic yards concrete foundation in place; 21,407 square yards sheet asphalt pavement laid; 16,215 square yards improved granite block pavement laid; 21,152 square yards asphalt block pavement laid; 12,955 square yards of wood block pavement laid; 1,016 square yards vitrified block pavement laid; 4,043 square yards old granite block pavement relaid; 568 square yards granite block gutters laid; 9 catch basins rebuilt; 2,000 square yards of asphaltic concrete pavement laid; 2 catch basins adjusted; 289 linear feet 12-inch cast iron pipe for drains; 350 linear feet of 24-inch vitrified pipe for drains; 40 linear feet 24-inch cast iron pipe for drains; 4 new catch basins built; 8,560 square yards of sheet asphalt pavement repaired; 2 new sewer manholes built; 141 street signs and posts erected; 40 school signs and posts erected; 13,024 cubic yards of concrete in sea walls.

BUREAU OF SEWERS.

January 29, 1914.

Hon. JAMES A. DAYTON, Commissioner of Public Works, Borough of Queens:

Dear Sir—In accordance with the provisions of section 1546, chapter 378 of the Laws of 1897, as amended in 1901, I hereby transmit a statement of the transactions and operations of the Bureau of Sewers, for the quarter ending December 31, 1913.

Yours very truly,

FRED. GEORGE, Acting Superintendent.
Long Island City, N. Y., January 28, 1914.

Dear Sir—Herewith please find statement showing the amount of work performed by the Engineering Division of the Bureau of Sewers for the quarter ending December 31, 1913:

There have been constructed: 652 linear feet 3 feet 4 inches by 4 feet timber outlet sewer, 59 linear feet 11 feet by 4 feet 6 inches reinforced concrete sewer, 2,77 linear feet 9 feet by 4 feet 6 inches reinforced concrete sewer, 334 linear feet 8 feet 6 inches reinforced concrete sewer, 1,330.62 linear feet 8 feet by 7 feet reinforced concrete sewer, 242.86 linear feet 8 feet by 4 feet 6 inches reinforced concrete sewer, 35 linear feet 8 feet reinforced concrete sewer, 578 linear feet 7 feet 6 inches by 7 feet reinforced concrete sewer, 588.53 linear feet 6 feet 6 inches reinforced concrete sewer, 772 linear feet 6 feet by 7 feet reinforced concrete sewer, 3,09 linear feet 6 feet reinforced concrete sewer, 83 linear feet 5 feet 6 inches by 7 feet reinforced concrete sewer, 1,070

linear feet 5 feet reinforced concrete sewer, .65 linear feet 4 feet 9 inches by 4 feet 6 inches reinforced concrete sewer, 272 linear feet 4 feet 9 inches reinforced concrete sewer, 412.28 linear feet 4 feet 6 inches reinforced concrete sewer, 1,827.95 linear feet 2 feet 6 inches concrete sewer, 28.08 linear feet 4 feet concrete sewer, 1.85 linear feet 3 feet 9 inches concrete sewer, 3.22 linear feet 3 feet 3 inches concrete sewer, 1,802.13 linear feet 3 feet concrete sewer, 1,492.17 linear feet 24-inch vitrified salt glazed pipe sewer, 752.10 linear feet 22-inch vitrified salt glazed pipe sewer, 2,637.12 linear feet 20-inch vitrified salt glazed pipe sewer, 5,049.44 linear feet 18-inch vitrified salt glazed pipe sewer, 5,329.17 linear feet 15-inch vitrified salt glazed pipe sewer, 29,085.65 linear feet 12-inch vitrified salt glazed pipe sewer, 484.30 linear feet 10-inch vitrified salt glazed pipe sewer, 40 linear feet 12-inch cast iron culvert pipe, 2,680.50 linear feet 12-inch vitrified salt glazed culvert pipe, 326 linear feet 10-inch vitrified salt glazed culvert pipe for house connections, 1,63 linear feet 20-inch cast iron pipe sewer, 3.09 linear feet 12-inch cast iron pipe sewer, 62 linear feet 18-inch cast iron pipe, 12 20-inch by 6-inch cast iron tees, 6 12-inch by 6-inch Y's, 3 feet long; 1 6-foot equalizing chamber, 91,520.67 linear feet of piles, 462,868.32 feet B. M. timber for bracing and sheet piling, 56,557.95 feet B. M. timber for foundation, 1,760 cubic yards of rock excavation, 2,377.06 cubic yards of concrete, 37.94 cubic yards of rip rap, 73,911.71 pounds of steel reinforcement, 91 risers for house connections, 96 receiving basins, 22 double receiving basins, 384 manholes, 4 junction chambers, 1 drop chamber, 5 drop manholes, 2 sewer manholes, 5 cleaning shafts:	

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Linear Feet of Open Drains Cleaned.

	First Ward.	Second Ward.	Third Ward.	Fourth Ward.	Fifth Ward.	Total.
October	5,580	12,925	3,515	.....	.....	22,020
November	5,755	3,692	3,870	.....	.....	13,317
December	4,135	8,605	4,155	.....	.....	16,895
Total	15,470	25,222	11,540	.....	.....	52,232
Loads .....	.....	133	176	.....	.....	309

BUREAU OF STREET CLEANING.

January 5, 1914.

Hon. JOSEPH FLANAGAN, Commissioner of Public Works, Borough of Queens: Sir—In accordance with provision of the Charter, section 1546, chapter 466, Laws 1901, I herewith transmit a report of the transactions of this Bureau for the quarter ending December 31, 1913.

Respectfully,

DANIEL EHNTHOLT, Superintendent.

Cubic Yards of Material Collected and Disposed of.

	Ashes.	Sweepings.	Rubbish.	Garbage.	Total.
Department carts	62,935 1/4	2,526 1/2	48,190 3/4	20,466 3/4	134,119 1/4
Permit carts .....	.....	.....	894 1/4	254 1/4	1,149
Total ashes, sweepings, rubbish and garbage	62,935 1/4	2,526 1/2	49,085 1/2	20,721	135,268 1/4

Statement in Force in Bureau.

Title.	Number Assigned.	Number Employed.
Superintendent	1	1
Clerk	4	4
Stenographer and Typewriter	1	1
Automobile Engineman	1	1
District Superintendent	5	5
Section Foreman	16	16
Assistant Section Foreman	14	14
Assistant Foreman	2	2
Assistant Dump Inspector	2	2
Dump Boardman	14	14
Stoker	1	1
Coal Passer	4	4
Driver	1	1
Sweeper	197	192
Laborer	32	32
Horse and cart	127	127
Team and truck	48	48

Miles streets swept, 99; miles private streets swept, 7; miles gutters swept, 30.

Appointments, Removals, Transfers, Etc.

The services of the following, with horses and necessary apparatus for operating carts, \$3.50 per diem, were discontinued:

William A. Duncan, Far Rockaway (four), effective October 3, 1913; William A. Duncan, Far Rockaway (four), effective October 6, 1913; William A. Duncan, Far Rockaway (one), effective November 14, 1913; John King, 594 Steinway ave., Long Island City (one), effective November 17, 1913; Henry Klein, 1930 Bleeker st., Ridgewood (one), effective November 17, 1913; Benjamin Sandman, Broadway and Union ave., Ozone Park, effective November 25, 1913; James Mitchell, Hunterspoint ave., Long Island City (one), effective November 25, 1913; Joseph Ditmar, 22 Oakland place, Woodhaven (one), effective November 26, 1913; Edward Hurtin, Camelia st., Long Island City (one), effective December 8, 1913; Joseph Erath, 507 Broadway, Long Island City (one), effective December 7, 1913; James Foley, Washington st., Jamaica (two), effective December 8, 1913; Frank D'Autreville, Astoria (one), effective December 17, 1913; Henry Mollenhauer, 16 Jackson ave., Union Course (one), effective October 23, 1913.

The following have been authorized to employ with this Bureau horses and necessary apparatus for operating carts, \$3.50 per diem, each:

Henry Klein, 1930 Bleeker st., Ridgewood (one), effective November 18, 1913; Benjamin Sandman, Broadway, Ozone Park (one), effective October 24, 1913; August Johnson, George st., Evergreen (one), effective November 11, 1913; Frank D'Autreville, Astoria (one), effective November 11, 1913; Louis Knorper, 93 Washington st., Flushing (one), effective November 11, 1913; Edmund Mazurek, 726 Steinway ave., Long Island City (one), effective November 18, 1913; Michael Labrocca, 191 8th st., Long Island City (one), effective November 26, 1913; James McDonough, Grand st., Union Course (one), effective November 26, 1913; Michael Rumanelli, Lawn ave., Chester Park (one), effective November 27, 1913; James Carroll, 866 Vernon ave., Long Island City (one), effective December 9, 1913; David H. Hayes, 63 4th st., Long Island City (one), effective December 8, 1913; Louis Sellers, Morris ave., Jamaica (one), effective December 9, 1913; George Marshall, 1 Delap place, Jamaica (one), effective December 9, 1913; Adolf Traub, 1113 Van Alst ave., Long Island City (one), effective December 18, 1913; Anton Giglo, Lawn ave., Ozone Park (one), effective November 1, 1913.

Team and truck, \$6 per diem, of the following, have been discontinued:

William A. Duncan, Far Rockaway (one), effective October 17, 1913; William A. Duncan, Far Rockaway (two), effective October 27, 1913; Charles Neuweiler, Atlantic and Metropolitan aves. (one), effective November 3, 1913; James Scully, Washington st., Flushing (one), effective November 9, 1913; James Walsh, 7th st., Jackson ave., Long Island City (one), effective November 4, 1913; Thomas Conley, McCormick ave., Ozone Park (one), effective November 12, 1913; Frederick Brugel, Weirfield st., Evergreen (one), effective November 25, 1913.

The following have been authorized to employ team and truck, \$6 per diem:

James Scully, Washington st., Flushing (one), effective November 10, 1913; Charles Neuweiler, Atlantic and Metropolitan aves. (one), effective November 4, 1913; Oscar Brugel, Weirfield st., Evergreen (one), effective November 26, 1913; Patrick J. O'Toole, Gould st., Richmond Hill (one), effective November 1, 1913; Charles Lichtenberger, 47 Fulton st., Astoria (one), effective November 4, 1913.

Team and necessary apparatus for operating sweeping machine, \$6 per diem, of the following, discontinued:

William C. Card, Elmhurst (one), effective November 13, 1913; Jacob Emer, Fulton st., Glendale (one), effective November 13, 1913; Patrick J. O'Toole, Gould st., Richmond Hill (one), effective December 31, 1913; Charles Lichtenberger, 47 Fulton st., Astoria (one), effective November 5, 1913.

Horses and necessary apparatus for operating sprinkling wagon, \$3.50 per diem, of the following, discontinued:

Anton Giglo, Lawn ave., Ozone Park (one), effective December 31, 1913; Thomas Slattery, 481 Vernon ave., Long Island City (one), effective November 4, 1913; Peter McArdle, 68 Clinton st., Corona (one), effective November 12, 1913; Henry Klein, 1930 Bleeker st., Ridgewood (one), effective November 10, 1913; August Johnson, George st., Evergreen (one), effective November 10, 1913; Frank D'Autreville, Astoria (one), effective November 10, 1913; Louis Knorper, 93 Washington st., Flushing (one), effective November 10, 1913.

William Messer, 14 South Washington place, Long Island City, Sweeper, \$2.50, appointed September 29, 1913; Calogero Siracusano, 907 Crescent st., Long Island City, Sweeper, \$2.50, appointed September 29, 1913; Frank Micelli, 50 Lent st., Corona, Clerk, 1st grade (\$540), appointed October 18, 1913; John B. Wissman, 189 Jamaica ave., Long Island City, Sweeper, \$2.50, appointed October 29, 1913; Matthew M. Goggin, Dump Inspector, 53 Juniper st., Flushing, \$1,200, services discontinued taking effect November 25, 1913; William Kurtz, 16 South Pier ave., Rockaway Beach, Laborer, \$2.50 per diem, transferred from Highway Bureau December 22, 1913 (his title changed to Sweeper); John P. Bracken, 86 8th st., Long Island City, Sweeper, \$2.50, transferred to Bureau of Highways October 7, 1913; title of Thomas S. Curley,

Shore road, North Beach, changed from Laborer to Sweeper (\$2.50 per diem), September 26, 1913; title of John J. Gilmartin, 143 Bowne ave., Flushing, changed from Laborer to Sweeper (\$2.50), December 1, 1913.

PUBLIC BUILDINGS AND OFFICES.

January 15, 1914.

JAMES A. DAYTON, Esq., Commissioner of Public Works, Borough of Queens, New York:

Dear Sir—I herewith hand you a report of the transactions of the Bureau of Public Buildings and Offices, Borough of Queens, New York, for the quarter ended December 31, 1913.

Respectfully submitted, FRANCIS X. DUER, Superintendent.

Quarterly Report, Bureau of Public Buildings and Offices, December 31, 1913.

During the quarter ended the above date the usual work of preparing the public buildings for the winter months has been under way. Awnings have been taken down, storm doors and storm steps put up, the heating apparatus examined, new parts installed where necessary, and repairs made. The roofs, gutters and leaders have been put in order, and all necessary work done to the exterior of the buildings for their protection.

The free floating bath was removed from its moorings at the foot of Jamaica ave., Astoria, to a safe winter berth in the basin at South Brooklyn. The principal activities of this bureau for the quarter ended the above date are fully set forth in the annual report for the year 1913, and it would be but a repetition to include same in this report.

I therefore refer you to the report in detail of the work done by this bureau during the quarter ended December 31, 1913, included in the annual report of this bureau.

January 1, 1914.

Hon. MAURICE E. CONNOLY, President, Borough of Queens:

Sir—In accordance with your instructions, I have the honor to submit herewith a report of the work done by the Topographical Bureau for the months of October, November and December, 1913:

Before proceeding to a detailed description of the work done by this office, a few words regarding its duties and organization may facilitate a better understanding of the details that follow:

The work of the Bureau falls naturally into two divisions: First, to quote from the Greater New York Charter, "to prepare a map of that part of the territory embraced within the Borough, of which a map or plan has not heretofore been finally established and adopted," and, second, to make the surveys and maps required by Commissioners of Estimate and Assessment.

For the better prosecution of this work, the force of this office is similarly divided into two divisions, one division charged with the preparation of the Final Map of the Borough; the other division charged with all work incidental to street opening proceedings.

The division charged with the preparation of the Final Map of the Borough is divided into three corps:

Monumenting Corps—Charged with all the surveys and field work incidental to the preparation of the Final Map and the Monumenting of the Borough.

Computing Corps—Charged with all the computations incidental to the preparation of the Final Map of the Borough.

Drafting Corps—Charged with all drafting work required to prepare the Final Maps.

The division charged with the preparation of the maps required by the Commissioners of Estimate and Assessment is subdivided into two corps:

Surveying Corps—Charged with all the field work necessary to the preparation of the maps required by the Commissioners.

Office Corps—Charged with all the computations and drafting necessary for the preparation of the maps required by the Commissioners.

In addition to the several Corps mentioned above, we have a small corps engaged in gathering data, and making reports concerning the legal status of the various streets in the borough.

The following detailed description of the work done by this Bureau is arranged according to the work performed by these several corps, and in the order in which they are mentioned above.

Respectfully submitted, CLIFFORD BENNETT, Engineer in Charge.

Monumenting Corps.

Monumenting Surveys, Completed—Section of Jamaica map bounded by Van Wyck ave., Sutphin road, Rockaway boulevard and Ulster ave. (monuments partly set); section of Jamaica map bounded by Van Wyck ave., Sutphin road, Jamaica ave. and Lincoln ave. (monuments all set); Dewey ave. and Siney ave. (monuments partly set); Highland boulevard, extension through Cypress Hills Cemetery; Jackson ave., causeway, from Shell road east.

Monumenting Surveys, Not Completed—New York ave., South st. to Rockaway boulevard; Bergen ave., Hillside ave. to Highland ave.

Surveys for Alterations and Additions, Completed—Junction ave., Corona ave. to north of Jackson ave.; Berlin ave., Long Island Railroad to Borden ave.; Corona ave., Christie to Radcliff st.; Corona (general), south of Corona ave.; Jerome ave., Seattie st. to Stoothoff ave. (monuments reset); Kimball ave., Thrall ave. to Vanderveer ave.; Liberty ave., Digby st. to Thedford ave.; James st.; Edward st.; Cox st.; Borden ave., Bragaw st. to Lowery ave.; Beaver st., Starr ave. to Review ave.; Rockaway Turnpike, South st. to Lincoln ave.; Sutphin road, South st. to Lincoln ave.; Franklin st., Remsen st. to Willow st.

Surveys for Alterations and Additions, Not Completed—Section bounded by Myrtle ave., Cooper st., Proctor st. and Trotting Course lane; Woodhaven ave., Jamaica ave. to Old South road.

Special Surveys, Completed—Jamaica, tie-in of recent surveys; High st., rear of Public School 72.

Final Traversing, Not Completed—Jamaica map, final angles.

During the quarter there were set 245 monuments; reset, 33 monuments.

Computing Corps—Area of monument traverses adjusted, 420 acres; area of block dimensions computed, 985 acres; linear feet of monument traverses adjusted, 132,100 feet; linear feet involved in alterations, 198,700 feet; linear feet of traverses adjusted, 34,100 feet; linear feet of street location computed, 32,200 feet; special map of Interborough parkway, 10,000 feet; special map of Wainscott ave., 3,800 feet.

DRAFTING CORPS.

Alteration Maps, Completed and Forwarded to the Board of Estimate and Apportionment for Approval—Map establishing the lines and grades of Rostrom st., from Laurel Hill boulevard to Jackson ave., and Amityville st., from Laurel Hill boulevard to Dreyer ave.; map altering the grades of Liberty ave. and Rockaway boulevard, at the Rockaway Beach Division of the Long Island Railroad; map altering the lines of Clermont ave., from Maspeth ave. to Fresh Pond road; map establishing the lines and grades of Aurelia place, from Flushing ave. to Newtown ave.; map altering the lines of Audley st., from Grenfell st. to the Long Island Railroad; map establishing the lines and grades of Interborough parkway, from Eastern parkway to Forest ave.; map altering the lines of Stanhope st., from Amory ave. to Metropolitan ave.; map altering the lines of Woodhaven ave., from Jamaica ave. to Atlantic ave.; map establishing a crown in 42d st., between Sigel ave. and Schurz ave.; map altering the lines and grades of Maspeth ave., from Maurice ave. to Clermont ave.; map establishing the lines and grades of Old Elmhurst ave., from Roosevelt ave. to Junction ave.; map shifting the lines of Prime st., from Hewitt ave. to Allen st.; map altering the grades of Beddard st., from Parsons ave. to Ziegler ave.; map altering the grades of 7th ave., from Jamaica ave. to Grand ave.; map altering the grades of Kingsland ave., from 42d st. to Luydig place; map altering the grades of Astoria ave., from 8th ave.

Alteration Maps Completed and Forwarded to the Board of Estimate and Apportionment for Approval—Map showing a change in the street system bounded by N. Villa st., Ridgewood ave., Maure ave., Sycamore place, Atfield place, Long Island Railroad, Van Wyck ave., Garden st., S. Morris ave., Long Island Railroad, Wisner place, N. Wickes st. and Fulton place. Map altering the grades within the territory bounded by Liberty ave., Huntington ave., Digby st., Liberty ave., Hudson st., Pitkin ave., Genesee st., Sutter ave., N. Conduit ave. and the Brooklyn Borough line. Map altering the lines of Larue place

dict ave., Ferriss st., Diamond st., Ashland st., Waterbury st., Emerson st., Freedom ave., Ferriss place, Park ave. and Jamaica ave.

Alteration Maps Prepared and Forwarded to the Board of Estimate and Apportionment for Certification and Filing—Map altering the grades of Cypress ave., from Clover place to a point 731.3 feet east of Ozone terrace. Map altering the grades of Roosevelt ave., from Hewitt ave. to Wateredge ave., and changing the lines of Amity st., from Wateredge ave. to Lawrence st. Map eliminating Sothern ave., from Lurtin st. to S. Railroad ave. Map eliminating Beaver st., from Starr ave. to Borden ave. Map altering the grades of Newtown road, from Jackson ave. to 16th ave.

Alteration Maps Prepared and Forwarded to the Board of Estimate and Apportionment for Certification and Filing—Map altering the grades of Metropolitan ave., from Fresh Pond road to Lilac st. Map altering the grades of Jerome ave. and Kimball ave., at the Rockaway Beach Division of the Long Island Railroad. Map altering the grades of Towns place, from Laurel Hill ave. to Packard st. Map establishing the lines of Sackett st., from Roosevelt ave. to Alburtis st. Map establishing the lines and grades of Lexington st., from Bedford ave. to Stoothoff ave., and Scott st., from Chestnut st. to Stoothoff ave.

Final Maps Completed and Forwarded to the Board of Estimate and Apportionment for Approval—Map establishing the lines and grades of Wainscott ave., from Beechhurst ave. to Bell ave. Map showing the street system for the territory bounded by Jamaica ave., Ezra st., Archer st. and Van Wyck ave.

Final Maps Prepared and Forwarded to the Board of Estimate and Apportionment for Certification and Filing—Map establishing the lines and grades of Campion st., from Jamaica ave. to Archer st.; Archer st., from Campion st. to Suphin road, and Suphin road, from Archer st. to Rockaway boulevard. Map establishing the lines of Spangler st., from Lambertville ave. to Brinkerhoff ave.; Brinkerhoff ave., from Spangler st. to Smith st.; Smith st., from Brinkerhoff ave. to Ulster ave.; Ulster ave., from Smith st. to Westchester ave.; Westchester ave., from Ulster ave. to 117th ave.; 117th ave., from Westchester ave. to Dearborn ave. and Dearborn ave., from 117th ave. to New York City line.

Final Sections—Completed, and forwarded to the Board of Estimate and Apportionment for approval. Nos. 30, 122, 126 and 123 (33 completed; but not transmitted).

Final Sections—In various stages of completion. Nos. 124, 125, 127 and 175.

Tentative Map Completed, and Forwarded to the Board of Estimate and Apportionment for Approval—Bayside Tentative Map.

Tentative Map, Nearing Completion—Black Stump Tentative Map.

Sewer District Maps Compared—Nos. 5A, 5B, 5C, 6A, 19, 22, 25, 40D.

Centre line elevations plotted on 80-foot sheets, 7.4 miles; centre line elevations plotted on 200-foot sheets, 3.6 miles; street systems and old roads plotted on 80-foot sheets, 235 acres; street systems and old roads plotted on 200-foot sheets, 185 acres; street systems traced on 200-foot tracings, 90 acres; area of 80-foot sheets prepared, 110 acres; area of 200-foot sheets prepared, 220 acres.

Surveying Corps (Street-Opening Division).

Surveys Completed (Previously Mentioned)—Bayreuth st., Parsons ave. to Dutchess st.

Surveys Completed (Started This Quarter)—Amity st., Main st. to Wateredge ave.

Surveys Not Completed (Started This Quarter)—Zeigler ave., Bayreuth st. to Willets Point road.

Office Corps (Street-Opening Division).

Rule Maps Completed (Started This Quarter)—Cox place, Flushing ave. to Board st., 840 feet; Marabel ave., Maurice ave. to Maspeth ave., 1,850 feet; Clermont ave., Maurice ave. to Fresh Pond road, 4,300 feet; Lambertville ave., Suphin road to Merrick road, 3,700 feet; Ferriss st., Kaiser st. to Forest parkway, 2,040 feet; Willow ave., Grand st. to Columbine ave., 1,480 feet; St. James st., Maurice ave. to Broadway, 960 feet; Corona ave., Maurice ave. to Broadway, 630 feet—15,800 feet.

Rule Maps Not Completed (Started This Quarter)—12th st., Fillmore ave. to bulkhead line of East river, 9,687 feet; Riker ave., Steinway ave. to 12th st., 2,850 feet—12,537 feet.

Rule Maps Not Completed (Previously Mentioned)—Ridgewood ave., Borough line to Van Wyck ave., 15,200 feet; Rockaway boulevard, Elderts lane to Ocean ave., 7,670 feet; Milton st., Flushing ave. to Grand st., 1,050 feet—23,920 feet.

Draft Damage Maps Completed (Previously Mentioned)—Cox place, Flushing ave. to Broad st., 840 feet; Marabel ave., Maurice ave. to Maspeth ave., 1,850 feet; Clermont ave., Maurice ave. to Fresh Pond road, 4,300 feet; Lambertville ave., Suphin road to Merrick road, 3,700 feet; Ferriss st., Kaiser st. to Forest parkway, 2,040 feet; Queens boulevard (Section VI), Yellowstone ave. to Union turnpike, 5,550 feet; East River Park, bounded by Ditmars ave., Barclay st., Hoyt ave. and the bulkhead line of the East River, 9,296 feet—27,576 feet.

Draft Damage Maps Completed (Started This Quarter)—Queens boulevard (section VII), Union turnpike to Hillside ave., 5,713 feet; Willow ave., Grand st. to Columbine ave., 1,480 feet; St. James st., Maurice ave. to Broadway, 960 feet; Corona ave., Maurice ave. to Broadway, 630 feet—8,783 feet.

Draft Damage Maps Not Completed (Previously Mentioned)—Ridgewood ave., Borough line to Van Wyck ave., 15,200 feet; Rockaway boulevard, Elderts lane to Ocean ave., 7,670 feet; Milton st., Flushing ave. to Grand st., 1,050 feet.

Draft Damage Maps, Not Completed (Previously Mentioned)—Forest ave., Metropolitan ave. to Catalpa ave., Halleck ave. to Myrtle ave. and Summerfield st. to Long Island railroad, 4,600 feet; Alden ave., Long Island railroad to Pansy st., 2,500 feet; Fresh Pond rd., Myrtle ave. to 200 feet south of Anna pl., 2,680 feet—33,700 feet.

Draft Damage Maps, Not Completed (Started This Quarter)—Liberty ave., borough line to Van Wyck ave., 15,540 feet; Amity st., Wateredge ave. to Main st., 2,375 feet; Firth ave., Grand st. to Metropolitan ave., 5,900 feet; Twelfth st., Fillmore ave. to the bulkhead line of East river, 9,687 feet; Monroe st., Betts ave. to Fisk ave., 3,400 feet; Ditmars ave., 43d st. to Astoria ave., 8,380 feet—45,282 feet.

Profile Maps, Completed (Previously Mentioned)—Clermont ave., Maurice ave. to Hebbard ave., 4,300 feet; Marabel ave., Maurice ave. to Maspeth ave., 1,850 feet; Cox pl., Flushing ave. to Broad st., 840 feet; Lambertville ave., Suphin rd. to Merrick rd., 3,700 feet—10,690 feet.

Profile Maps, Completed (Started This Quarter)—Newtown rd., 13th ave. to Jackson ave., 3,000 feet; Ferriss st., Kaiser st. to Forest Parkway, 2,040 feet; Willow ave., Grand st. to Columbine ave., 1,480 feet; St. James st., Maurice ave. to Broadway, 960 feet; Corona ave., Maurice ave. to Broadway, 630 feet—8,110 feet.

Draughting Corps, (Street-Opening Division).

Final Damage Maps, Completed (Previously Mentioned)—Roosevelt ave., Woodside ave. to Wateredge ave., 19,050 feet; Winthrop ave., Chauncey st. to 1st Ward boundary line, 4,600 feet; California ave., 16th st. to Broadway, 4,078 feet; Ratoone pl., California ave. to Jackson ave., 50 feet; Borden ave., Greenpoint ave. to Laurel Hill blvd., 2,384 feet; Gould ave., Greenpoint ave. to Madden st., and Locust st. to Addison pl., 2,334 feet—32,496 feet.

Final Damage Maps, Not Completed (Previously Mentioned)—Skillman ave., Woodside ave. to angle between Van Pelt and Hulst sts., 5,230 feet; 50th st., Astoria ave. to Polk ave., 2,500 feet; 51st st., Flushing Bay to 100 feet south of Polk ave., and Corona ave. to Queens blvd., 12,500 feet; Ashland st., Cypress Hills cemetery to Myrtle ave., Birch st. to Spruce st., and N. Curtis ave. to Metropolitan ave., 8,930 feet; Opdyke st., Corona ave. to Tiemann ave., 2,030 feet; Eliot ave., Metropolitan ave. to Mt. Olivet ave., Edith pl. to Queens blvd., 10,160 feet; Whitlock ave., Brown pl. to Calamus ave., 5,250 feet; Corona ave., Hampton st. to Rodman st., 9,000 feet; Yellowstone ave., Queens blvd. to Woodhaven ave., 5,310 feet.

Office Corps (Street Opening Division).

Final Damage Maps, Not Completed (Previously Mentioned)—Grove st., Woodward ave. to Traffic st., 3,405 feet; Ralph st., Grandview ave. to Traffic st., 2,340 feet; Vincent st., Ralph st. to Metropolitan ave., 680 feet; Calamus ave., Maurice ave. to Woodhaven ave., 7,435 feet; 4th st., Queens boulevard to Jackson ave., 4,500 feet; 5th st., Queens boulevard to Woodside ave., 1,400 feet; Weil place, Flushing ave. to North Washington place, 690 feet; Sanford st., Vernon ave. to Sherman st., 620 feet; Lake st., Junction ave. to Alburtis ave., 2,060 feet; Banta st., Van Dine st. to Junction ave., 930 feet; School st., Thomson ave. to 100 feet north of Nott ave., 500 feet; Hill st., Gale st. to Skillman ave., 2,852 feet; Rawson st., Hunterspoint ave. to Skillman ave., 2,802 feet; Moore st., Hunterspoint ave. to Skillman ave., 3,022 feet; Honeywell st., Hunterspoint ave. to Queens boulevard, 2,220 feet; Buckley st., Hunterspoint ave. to Skillman ave., 3,463 feet; total, 99,829 feet.

Final Damage Maps, Not Completed (Started this Quarter)—Onderdonk ave., Metropolitan ave. to Catalpa ave., 7,350 feet; 6th st., Stryker ave. to 7th st., 2,050

feet; 7th st., Jackson ave. to 150 feet south of Stryker ave., 2,800 feet; 8th st., Woodside ave. to Jackson ave., 3,350 feet; total, 15,550 feet.

Amended Final Damage Maps, Completed (Previously Mentioned)—Fowler st., Lawrence st. westerly, 1,730.02 feet; Saull st., Cherry st. to Irving ave., 627 feet; Blossom ave., Lawrence st. to Saull st., 870 feet; Cherry st., Saull st. to Colden ave., 1,000 feet; Colden ave., Hillside ave. to 75 feet north of Jacinth st., Mulberry st. to Underhill ave., 2,425 feet; total, 6,652 feet.

Amended Final Damage Maps, Completed (Started this Quarter)—Clinton ave., Montgomery ave. to Mueller st., 2,136 feet; Hull ave., Montgomery ave. to Mueller st., 2,605 feet; Hebbard ave., Flushing ave. to Fresh Pond road, 1,886 feet; Shaler st., Cornelius st. to Kossuth place, 300 feet; Gosman ave., Borden ave. to Barnett ave., and Dreyer ave. to Jackson ave., 7,800 feet; Addison place, Laurell Hill boulevard to Anable ave., 1,365 feet; Fisk ave., Queens boulevard to Grand st., 4,780 feet; total, 22,652 feet.

Amended Final Damage Maps, Not Completed (Started this Quarter)—Broad st., Maspeth ave. to Borden ave., 4,780 feet.

Benefit Maps, Completed (Previously Mentioned)—Roosevelt ave., Woodside ave. to Wateredge ave., 1,089 acres; Winthrop ave., Chauncey st. to boundary line of the 1st Ward, 102.80 acres; California ave., 16th st. to Broadway, 10.30 acres; Ratoone place, California ave. to Jackson ave.; Borden ave., Greenpoint ave. to Laurel Hill boulevard; Gould ave., Greenpoint ave. to Madden st., and Locust st. to Addison place, 115.20 acres; total, 1,317.30 acres.

Benefit Maps, Not Completed (Previously Mentioned)—Skillman ave., Woodside ave. to angle between Van Pelt and Hulst sts., 109 acres; Ashland st., Cypress Hills Cemetery to Myrtle ave., Birch st. to Spruce st. and North Curtis ave. to Metropolitan ave., 185.45 feet; Opdyke st., Corona ave. to Tiemann ave., 16.30 feet; Eliot ave., Metropolitan ave. to Mt. Olivet ave., Edith place to Queens boulevard, 224 acres; Whitlock ave., Brown place to Calamus ave., 61.20 acres.

Benefit Maps Not Completed (Previously Mentioned)—4th st.: Queens boulevard to Jackson ave.; 5th st., Queens boulevard to Woodside ave., 47 acres; total, 642.95 acres.

Final Benefit Maps Not Completed (Started This Quarter)—Onderdonk ave.: Metropolitan ave. to Catalpa ave., 92 acres. 6th st.: Stryker ave. to 7th st.; 7th st.: Jackson ave. to 150 feet south of Stryker ave.; 8th st.: Woodside ave. to Jackson ave., 7,530 acres; Weil place: Flushing ave. to N. Washington place, 4.30 acres; School st.: Thomson ave. to 100 feet north of Nott ave.; Hill st.: Gale st. to Skillman ave.; Rawson st.: Hunterspoint ave. to Skillman ave.; Moore st.: Hunterspoint ave. to Skillman ave.; Honeywell st.: Hunterspoint ave. to Queens boulevard; Buckley st.: Hunterspoint ave. to Skillman ave., 80.30 acres. Total, 251.90 acres.

Amended Benefit Map Completed (Previously Mentioned)—Shaler st., Cornelius st. to Kossuth place, 13.30 acres. Amended Benefit Maps Completed (Started This Quarter)—Clinton ave.: Montgomery ave. to Mueller st., 81 acres; Hull ave., Montgomery ave. to Mueller st., 34 acres. Fowler st.: Lawrence st. west 1,730.02 feet; Blossom st., Lawrence st. to Saull st.; Saull st., Cherry st. to Irving place; Cherry st.: Saull st. to Colden ave.; Colden ave.: Hillside ave. to 75 feet north of Jacinth st. and Mulberry st. to Underhill ave., 28 acres; Hebbard ave.: Flushing ave. to Fresh Pond road, 10 acres; Gosman ave., Borden ave. to Barnett ave., and Dryer ave. to Jackson ave.; Addison place: Laurel Hill boulevard to Anabel ave., 200 acres; Fisk ave.: Queens boulevard to Grand st., 197.25 acres. Total, 550.25 acres.

Amended Benefit Map Not Completed (Started This Quarter)—Broad st.: Maspeth ave. to Borden ave.

Profile Maps For Which Detail Grades Were Computed—Ferriss st.: From Forest parkway to Kaiser st., 2,040 feet; Willow ave.: From Grand st. to Columbine ave., 1,480 feet; St. James st.: Maurice ave. to Broadway, 960 feet; Corona ave., Maurice ave. to Broadway, 630 feet.

Streets For Which Detail Grades Were Computed—Queens boulevard: From Hyatt ave. to Fisk ave., 1,400 feet. Also on Clermont ave., Skillman ave., 3d st., Meadow st., Kimball ave., Oberlin st., Fisk ave., Metc ave., Perry ave. and Maspeth ave.

The following grade investigations were made: Queens boulevard from Broadway to Union turnpike; also on Corona ave., Hayes ave. and 47th st., and final section No. 44.

Legal Status Corps—Legal opening reports, 18; legal status reports, 191; legal status reports for Corporation Counsel, 41; miscellaneous reports, 52; total, 302; physical street inspections, 87.

Financial Statement—Vouchers certified to Comptroller during the three months ending December 31, 1913, \$58,748.26.

DIVISION OF SUBSTRUCTURES, TOPOGRAPHICAL BUREAU.

Long Island City, N. Y., October 31, 1913.

Hon. JOSEPH FLANAGAN, Commissioner of Public Works, Borough Hall, Long Island City:

Dear Sir—I transmit herewith report of the work done by the Division of Substructures, Topographical Bureau, for the quarter ending December 31, 1913.

Respectfully, CHARLES W. POWELL, Engineer in Charge.

Hon. JOSEPH FLANAGAN, Commissioner of Public Works:

Sir—I have the honor to submit a report of the work done by the Division of Substructures of the Topographical Bureau for the months of October, November and December, 1913.

The purpose of this Division is to accurately locate and map all substructures in the streets of the Borough. These consist of electric and telephone conduits, gas and water pipes, sewers, vaults, tunnels, cesspools, etc.

The Borough has been subdivided into sections, and sections Nos. 1 and 2, which include all of Long Island City, have been plotted upon layout maps, which show the specific street and monument systems of the sections, and are indices of the final record maps. They show the exact boundaries of each sheet and provide a system of numbers by which to designate the sheets. The index covering the other Wards of the Borough will be based on the Final Map sections and will be numbered accordingly. Each final section will be subdivided into 40 record maps.

A system for obtaining notice of every permit granted in the Borough has been established and the Division is at present receiving daily memoranda of permits granted in the 1st Ward, which permits are being investigated and the installations located.

The forces of this Division fell naturally into two parts: The Field Force, engaged in making surveys and locations. The Office Force, engaged in indexing, mapping and filing.

Summary of Work Done by the Field Force—Number of angles turned, 39; number of features located, 748; number of feet of traverse, 10,490; number of feet of taping, 63,000; number of street openings, 287; number of feet subsurface work located, 21,794; number of sewer manholes, 147; number of sewer catch basins, 46; number of telephone company boxes, 14; number of gas boxes, 67; number of water boxes, 91; number of power company boxes, 14; number of feet of gas mains, 12,101; number of feet of water mains, 6,301; number of feet of power ducts, 140; number of feet of telephone ducts, 1,072; number of feet of sewer pipe, 2,050; number of poles, etc., on sidewalk, 372; number of boxes, catch basins, etc., measured in detail, 98; number of feet of miscellaneous pipe, 130.

Summary of Work Done by Office Force.

Blue prints were prepared covering the area included by 9 record maps in Section No. 1 and were sent to the various Public Service Corporations for use in supplying us with all their available data.

The field surveys and detail sub-surface measurements have been plotted and checked.

Company data for these record maps was also plotted, and these maps now present a fair representation of sub-surface conditions.

Maps were prepared in the office on which all available sewer data has been plotted, in the area included by the above mentioned record maps, and while it is difficult to ferret out complete sewer data we have been able to copy all available records in this section.

Index layout maps were prepared of Sections Nos. 1 and 2, which comprise Long Island City. These maps, drawn to a scale of 600 feet to the inch, show the exact position of any record map included in these sections, designated by the number. Copies of these maps have been submitted to your office.

A color index map was prepared, showing all installations as well as all sub-surface features exposed in Sections Nos. 1 and 2. On this map was plotted all features in their designated colors.

A computation book was prepared showing the co-ordinates used for plotting each record map.

A table of water gate standards was prepared by which the cover of any main may be found from the location of the top of gate.

Additions and corrections were plotted on the special map of Broadway and Main st., Flushing, showing the installations of the New York & Queens Electric Light & Power Company.

All field notes and company data have been properly indexed and filed, so that all available information is continually ready for use.

Upon November 24, 1913, this Bureau was instructed by the President to obtain and classify the franchise records of all Public Service Corporations operating or intending to operate in the borough. Steps have been taken to obtain this information and methods of systematizing this work are being devised.

Amount certified to comptroller during current quarter, \$3,655.55.

Respectfully submitted, CHARLES W. POWELL, Engineer in Charge.

METEOROLOGICAL OBSERVATORY OF THE DEPARTMENT OF PARKS.

Abstract of Registers from Self-Recording Instruments for the Week Ending Saturday, February 7, 1914.

Central Park, The City of New York—Latitude, 40° 45' 58" N. Longitude, 73° 57' 58" W. Height of Instruments Above the Ground, 53 Feet; Above the Sea, 97 F.m.

Under Supervision of U. S. Weather Bureau, James H. Scarr,

District Forecaster, Acting Director.

BAROMETER.

DATE.	7 a.m.		2 p.m.		9 p.m.		Mean for the Day.	Maximum.		Minimum.	
	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Reduced to Freezing.	Time.		Reduced to Freezing.	Time.	Reduced to Freezing.	Time.
Sunday, 1	38 20.78	44 20.85	41 20.98	29.87	39 30.08	12 p.m.	42 29.60	0 a.m.			
Monday, 2	36 30.23	38 30.38	36 30.39	30.35	36 30.40	7 p.m.	36 30.08	0 a.m.			
Tuesday, 3	35 30.29	50 30.16	47 30.05	30.17	36 30.37	0 a.m.	46 29.99	1 p.m.			
Wednesday, 4	47 29.85	50 29.88	37 29.98	29.90	45 29.99	0 a.m.	47 29.85	6 p.m.			
Thursday, 5	30 30.00	33 30.03	31 30.15	30.06	28 30.20	12 p.m.	31 29.94	3:30 a.m.			
Friday, 6	27 30.22	31 30.06	34 29.70	29.99	29 30.23	8 p.m.	34 29.56	12 p.m.			
Saturday, 7	35 29.39	40 29.25	33 29.57	29.40	30 29.70	12 p.m.	46 29.25	2 p.m.			

Mean for the week..... 29 96 inches.

Maximum " at 7 p.m., Feb. 2..... 30 40 "

Minimum " at 3 p.m., Feb. 7..... 29 25 "

Range " 1.15 "

THERMOMETERS

DATE.	7 a.m.		2 p.m.		9 p.m.		Mean.	Maximum.		Minimum.		Maximum	
	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Wet Bulb.		Time.	Dry Bulb.	Wet Bulb.	Time.	Dry Bulb.	Wet Bulb.
Sunday, 1	38 32	44 34	41 33	41 41	33 34	41 41	37	1 a.m.	38	7 a.m.	32	7 a.m.	90
Monday, 2	30 35	38 32	36 30	35 35	29 40	41 41	34	4 p.m.	30	7:30 a.m.	25	8 a.m.	83
Tuesday, 3	35 35	50 47	47 45	47 45	51 45	44 46	29	2 p.m.	36	7 a.m.	23	1 a.m.	76
Wednesday, 4	47 46	50 42	37 29	41 41	39 53	52 50	48	11 a.m.	33	12 p.m.	28	12 p.m.	91
Thursday, 5	30 26	33 28	31 31	31 31	27 31	5 p.m.	26	5 p.m.	28	12 p.m.	23	12 p.m.	60
Friday, 6	27 24	31 31	34 31	34 34	36 45	50 p.m.	36	7 p.m.	26	4:15 a.m.	22	4:45 a.m.	36
Saturday, 7	35 45	41 33	26 38	34 47	30 p.m.	41	2 p.m.	30	12 p.m.	23	12 p.m.	80	

Dry Bulb. Wet Bulb.

Mean for the week..... 37.3 degrees..... 31.4 degrees

Maximum " at 12:50 p.m., Feb. 4..... 53 " at 11 a.m., Feb. 1..... 48 "

Minimum " at 4:15 a.m., Feb. 6..... 26 " at 4 a.m., Feb. 6..... 22 "

Range " 27 " 26 "

WIND.

DATE.	Direction.			Velocity in Miles.			Force in Pounds per Square Foot.			Time	
	7 a.m.	2 p.m.	9 p.m.	9 p.m.	7 a.m.	2 p.m.	Distance for Day.	7 a.m.	2 p.m.	9 p.m.	
Sunday, 1	W	W	W	111	85	63	252	3/4	81/2	1	81/2 a.m.
Monday, 2	NW	NW	E	81	49	27	143	0	1/2	0	1:35 a.m.
Tuesday, 3	E	SW	E	35	36	30	99	0	1	1/2	1 a.m.
Wednesday, 4	W	NW	NW	28	54	54	140	1/4	21/2	1/4	12:45 p.m.
Thursday, 5	N	N	N	66	44	36	149	1/4	3/4	0	10:50 p.m.
Friday, 6	NE	NE	NE	67	74	63	219	1/2	61/2	10	11:30 a.m.
Saturday, 7	NE	W	W	76	36	92	203	1/4	31/4	71/2	4:55 p.m.

Distance traveled during the week..... 1,211 miles.

Maximum force during the week..... 17 pounds

DATE.	Hygrometer.			Clouds.			Rain and Snow			Time		
	Force of Vapor.	Relative Humidity.	Mean.	Clear, Overcast.	o	10	Depth of Rain and Snow in Inches.	Time of Beginning.	Time of Ending.	Duration.	Amount of Water.	
February.	7 a.m.	2 p.m.	9 p.m.	7 a.m.	2 p.m.	9 p.m.	Time of Beginning.	Time of Ending.	Duration.	h.m.	in.	in.
Sunday, 1	.103	.066	.084	.084	.52	.38	44	45	0	1 St Cu.	0	.....
Monday, 2	.078	.101	.093	.093	.57	.50	53	53	0	1 St Cu.	0	.....
Tuesday, 3	.191	.258	.273	.241	.87	.73	68	83	1/2	8 St Cu.	10 St.	.....
Wednesday, 4	.297	.162	.068	.176	.91	.53	42	62	1/2	1 A St.	0	.....
Thursday, 5	.095	.096	.101	.097	.63	.54	60	59	1/2	10 St.	10 Nb.	.....
Friday, 6	.093	.174	.196	.155	.66	.99	37	67	1/2	1 A St.	10 Nb.	.....
Saturday, 7	.204	.192	.061	.152	.96	.68	37	67	1/2	2 A St.	0	.....

Total amount of water for the week..... 50 inch.

Duration for the week..... 21 hours, 25 minutes

DATE.	7 a.m.		
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\$1,050, appointed (15 days), January 17, 1914; Wm. Nugent, New Dorp, Inspector (Reg., Grad. and Pav.), \$1,500, laid off, January 17, 1914; Charles Sturm, Port Richmond, Inspector (Reg., Grad. and Pav.), \$1,350, laid off, January 17, 1914; John A. Thompson, Rosebank, Inspector of Repairs, \$4 per day, transferred, Department of Finance, January 14, 1914.

Work Done.

Bureau of Highways—Repairing and maintaining roadways, curbs, gutters, bridges, crosswalks, culverts, ditches, etc.

Bureau of Sewers—Cleaning, examining and repairing sewers, basins, manholes, flush tanks, culverts, drains, etc., and miscellaneous work.

Bureau of Street Cleaning—Street sweeping, refuse collection, final disposition, clearing gutters, light macadam repairs, weeding gutters and miscellaneous.

Bureau of Public Buildings and Offices—Care and maintenance of Borough Hall, village halls at New Brighton and Stapleton, County Court House and Jail, County Clerk's office, Coroner's office, Special Sessions Court room and public offices in Borough of Richmond.

Statement of Laboring Force Employed.
(Eight Hours Constitute One Working Day.)

	Bureau of Highways.	Bureau of Sewers.	Bureau of Street Cleaning.	Bureau of Buildings and Offices.	Bureau of Engineering.	Total.
	No. Days.	No. Days.	No. Days.	No. Days.	No. Days.	No. Days.
Foremen	14	75 1/2	5	35 1/4	11	77
Assistant Foremen	1	3	1	7	1	6
Laborers	53	194 1/2	5	30	44	292 1/2
Carts	3	13	1	5	..	..
Carts (hired) .....	..	..	..	8	48	..
Teams	4	7 1/4	..	..	6	30
Drivers	1	6	6	35 1/4	49	332 1/2
Sweepers .....	..	..	..	92	619 1/4	..
Hostlers .....	..	..	..	13	91	..
Steam Roller Engineers	1	6	..	..	..	..
Auto Enginemen .....	..	..	1	7	..	..
Sewer Cleaners .....	..	19	116 1/4	..	..	..
Janitors .....	..	..	..	..	4	28
Janitress .....	..	..	..	..	1	7
Female Cleaners .....	..	..	..	..	6	42
Mechanics .....	..	..	..	1	7	4
Stationary Enginemen .....	..	..	..	2	14	..
Stokers .....	..	..	..	3	21	..
Elevatormen .....	..	..	..	..	2	14
Total	77	305	37	228 1/4	230	1,539 1/4
						416 2,499 1/2

Appointments, Removals, Etc.—J. J. Kaltenmeier, Rosebank, Inspector (Sew. Cons.), \$1,500, reassigned, January 20, 1914; J. J. Monahan, Tompkinsville, Foreman (S. C.), \$1,050, reinstated, January 22, 1914; J. L. Martin, New Brighton, Driver (S. C.), \$660, resigned, January 21, 1914.

Laborers laid off January 19: Fioravanti Alberto, Stapleton; John Basso, Rosebank; Geo. C. Batz, Stapleton; Antonio Brigandì, Oakwood; Joseph Budnick, New Brighton; Vincenzo Caccesse, New Brighton; Carmen Castagna, Tompkinsville; Angelo Chuchlo, New Brighton; Biagio Conte, Rosebank; Henry Crowley, Mariners Harbor; James E. Cruiser, Port Richmond; Giuseppe D'Amelio, Rosebank; William Dehlinger, Stapleton; Patrick Dempsey, West New Brighton; Bernardino Dessoar, Tompkinsville; Lougi Digheri, Dongan Hills; Vincenzo Disogna, West New Brighton; John J. Fleming, Port Richmond; Patrick Flynn, Great Kills; Peter Ghiglotti, Dongan Hills; Joseph Hartley, New Dorp; John J. Hemsworth, New Brighton; George Irving, West New Brighton; Anton Kubinak, Pleasant Plains; Sabatino Larstanno, New Brighton; Antonio Lopardi, Rosebank; Gabriel Marotta, Bulls Head; Salvatore Marotta, Port Richmond; Forest Mason, Port Richmond; Eralus Merrill, Mariners Harbor; Michael Monday, Mariners Harbor; Edward B. Moran, Port Richmond; Tony Murano, Rosebank; Emile Nardin, Stapleton; Carmine Nola, Port Richmond; Alfonso Pappa, Tompkinsville; Gennaro Pasqualone, New Brighton; Giuseppe Patrices, Port Richmond; Phillip Rausch, Stapleton; John W. Sharrott, Dongan Hills; C. Sinibaldo, Tompkinsville; P. Spanziano, New Brighton; James Stavola, Stapleton; Perry Stovall, Stapleton; Thomas Stowe, Stapleton; Geo. C. Thompson, Tompkinsville; Andro Varhola, Linoleumville; Ferdinand Waszkow, Stapleton; Michael Venditto, Tompkinsville; Patrick Wixted, Graniteville.

Foremen laid off January 10: C. M. Cole, Tompkinsville; W. E. Chinery, Stapleton; P. B. Decker, Linoleumville; W. H. DeHart, West New Brighton; G. E. Durrua, West New Brighton; E. P. Greer, Hugenot; E. S. Miller, Hugenot; E. H. Muddell, Port Richmond; Jere McCarthy, Port Richmond; J. H. Parsons, West New Brighton; G. W. Taxter, Port Richmond; John Seehusen, West New Brighton.

John Monahan, Tompkinsville, Foreman (S. C.), \$1,050, temporary appointment, January 22, 1914; Wm. S. Hetzel, West New Brighton, Clerk (G. A.), \$300, temporary appointment, January 22, 1914; George Perry, Stapleton, Clerk (S. C.), \$300, temporary appointment, January 22, 1914; Samuel Bernstock, Tompkinsville,

Engineering, Construction—Surveys, plans, design and construction of sewers, highways, curbs, gutters, sidewalks, etc.

Engineering, Topographical—Topographical survey and map of the Borough; miscellaneous surveying, maps, etc.

CHARLES J. McCORMACK, President.

By Spire Pitou, Jr., Assistant Commissioner of Public Works.

Public Works.

Report of transactions for the week ending January 24, 1914:

Public Moneys Received During Week Ending January 21, 1914—Restoring and repaving, special fund (fees), \$959.57; sewer inspection and repair, special fund (fees), \$10; special security deposits (materials on streets, etc.), \$25; miscellaneous, 45 cents. Total, \$995.02.

Permits Issued Week Ended January 21, 1914—Permits to open street pavement for all purposes, 10; permits to place building materials on streets, 1; permits, special and miscellaneous, 37. Total, 48.

Requisitions Drawn on Comptroller—Payroll vouchers, \$16,268.34; contract vouchers, \$28,403.35. Total, \$44,671.69.

A. E. PALMER, Secretary, Board of Education.

New England Casualty Company. The

Manhattan Supply Company, 115 Franklin st., City, for furniture for new Public

School 53, The Bronx; surety, New Eng-

land Casualty Company. Readsboro

Chair Company, 63 5th ave., City, for

furniture for new Public School 53, The

Bronx; surety, American Surety Com-

pany. Blake & Williams, 26 Grove st.,

City, installing heating and ventilating ap-

paratus in New Public School 97, Man-

hattan; surety, National Surety Com-

pany. Johnson Service Company, 123 E. 27th

st., City, for installing temperature re-

gulation in New Public School 97, Man-

hattan; surety, United States Fidelity &

Guaranty Company. T. Frederick Jack-

son, Inc., 94 John st., City, for installing

electric lights at the Athletic Fields in

Brooklyn and Richmond; surety, Massa-

chusetts Bonding & Insurance Company.

Superior Seating Co., Muskegon, Mich.,

for furniture for addition to Public

School 71, Queens; surety, Casualty Com-

pany of America. Max Klausner, 1218

Van Alst ave., Long Island City, for

furniture for addition to Public School

71, Queens; surety, Casualty Company of

America. Charles Williams, 75 Wash-

ington ave., Brooklyn, for plumbing, etc.,

at new Public School 48, Brooklyn; surety,

Southern Surety Company. Cava-

nagh Bros. & Co., 207 W. 34th st., City,

for equipment for Bushwick High School,

Brooklyn; surety, United States Fidelity &

Guaranty Company. J. & F. Electric

Company, 212 Broadway, City, for instal-

ling electric equipment in new Public

School 22, Richmond; surety, Fidelity &

Deposit Company of Maryland.

A. E. PALMER, Secretary, Board of

Education.

Coal to the Brooklyn Bridge, Bacon Coal

Company, Reid and Dekalb aves., \$4,392.

F. J. H. KRACKE, Commissioner.

Contracts Awarded—Bids received on

February 10, 1914, for "Furnishing and

Delivering Structural Steel to the Brook-

lyn Bridge": Milliken Bros., Inc., \$2,068;

Hay Foundry and Iron Works, \$2,112;

Rudolph Gersmann, Inc., \$2,160; McClin-

tic-Marshall Company, \$2,200; Belmont

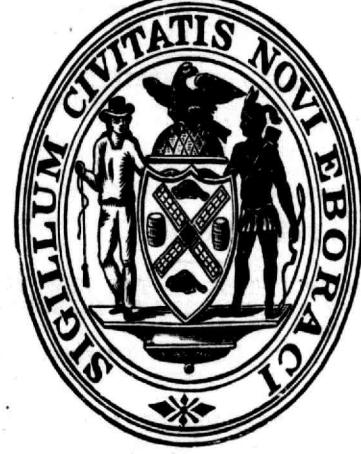
Iron Works, \$2,349.60; Hamilton & Cham-

bers, \$2,464; Eagle Iron Works, \$2,816.

Milliken Bros., Inc., being the lowest

formal bidder, the contract was awarded to

F. J. H. KRACKE, Commissioner.



OFFICIAL DIRECTORY

STATEMENT OF THE HOURS DURING WHICH THE PUBLIC OFFICES IN THE CITY ARE OPEN FOR BUSINESS AND AT WHICH THE COURTS REGULARLY OPEN AND ADJOURN, AS WELL AS THE PLACES WHERE SUCH OFFICES ARE KEPT AND SUCH COURTS ARE HELD.

CITY OFFICES

MAYOR'S OFFICE

No. 5 City Hall, 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 m.

Telephone, 8020 Cortlandt.

John Purroy Mitchel, Mayor.

BUREAU OF WEIGHTS AND MEASURES

Room 1, City Hall, 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 m.

Telephone, 4334 Cortlandt.

John L. Walsh, Commissioner.

BUREAU OF LICENSES

9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.

Telephone, 2030 Worth.

Principal Office, 57-59 Centre street.

Julian Rosenthal, Chief of Bureau.

ARMED BOARD

Room 6, Basement, Hall of Records, Chambers

and Centre streets.

Office hours, 9 a. m. to 4 p. m.; Saturdays,

9 a. m. to 12 m.

Telephone, 3900 Worth.

C. D. Rhinehart, Secretary.

ART COMMISSION

City Hall, Room 21, Office hours, 9 a. m. to

5 p. m.; Saturdays, 9 a. m. to 12 m.

Telephone call, 1197 Cortlandt.

John A. Mitchell, Secretary.

BOARD OF ALDERMEN

No. 11 City Hall, 10 a. m. to 4 p.

Office of the Chief Engineer.
No. 277 Broadway, Room 1408. Telephone, 2281 Worth.
Bureau of Franchises.
No. 277 Broadway, Room 801. Telephone, 2282 Worth.
Standard Testing Laboratory.
No. 125 Worth street.
Telephones, 3088 and 3089 Franklin.
Efficiency and Budget Advisory Staff.
No. 51 Chamber street, Room 828.
Telephone, 1684 Worth.
Bureau of Standardization of Supplies.
No. 280 Broadway, Room 131. Telephones, 1200 and 1220 Worth.
Office hours, 9 a. m. to 5 p. m. Saturdays, 9 a. m. to 12 m.
The Board of Estimate and Apportionment meets in the Old Council Chamber (Room 16), City Hall, every Friday at 10.30 o'clock a. m.

BOARD OF EXAMINERS.
Rooms 6027 and 6028, Metropolitan Building.
No. 1 Madison avenue, Borough of Manhattan.
9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 5840 Gramercy.
Board meeting every Tuesday at 2 p. m.
Edward V. Barton, Clerk.

BOARD OF INEBRIETY.
Office, 300 Mulberry street, Manhattan.
Telephone, 7116 Spring.
Office hours, 9 a. m. to 5 p. m. Saturdays, 9 a. m. to 12 m.
Board meets first Wednesday in each month at 3 o'clock.
Charles Samson, Secretary.

BOARD OF PAROLE OF THE NEW YORK CITY REFORMATORY OF MISDEMEANANTS.
Office, No. 148 East Twentieth street.
Telephone, 1047 Gramercy.

BOARD OF REVISION OF ASSESSMENTS.
Finance Department, No. 280 Broadway.
Telephone, 1200 Worth.
John Korb, Chief Clerk.

BOARD OF WATER SUPPLY.
Office, Municipal Building, 22d floor.
Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 3150 Worth.
Joseph B. Morrissey, Secretary.

BUREAU OF THE CHAMBERLAIN.
Municipal Building, 8th floor.
Office hours, 9 a. m. to 5 p. m.
Telephone, 4270 Worth.
Henry Bruere, Chamberlain.

CHANGE OF GRADE DAMAGE COMMISSION.
Office of the Commission, Room 223, No. 280 Broadway (Stewart Building), Borough of Manhattan, New York City.
Regular advertised meetings on Monday, Tuesday and Thursday of each week at 2 o'clock p. m.
Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 3254 Worth.
Lamont McLoughlin, Clerk.

CITY CLERK AND CLERK OF THE BOARD OF ALDERMEN.
City Hall, Room 11, 12; 10 a. m. to 4 p. m.; Saturdays, 10 a. m. to 12 m.
Telephone, 7560 Cortlandt.
P. J. Scully, City Clerk.

COMMISSIONERS OF ACCOUNTS.
Municipal Building, Borough of Manhattan.
9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 4315 Worth.
James J. McGinley, Acting Commissioner.

COMMISSIONER OF LICENSES.
Office, No. 277 Broadway.
Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 2828 Worth.
George H. Bell, Commissioner.

COMMISSIONERS OF SINKING FUND.
Office of Secretary, Room 9, Stewart Building, No. 280 Broadway, Borough of Manhattan.
Telephone, 1200 Worth.
John Korb, Secretary.

DEPARTMENT OF BRIDGES.
Municipal Building, 18th floor.
Office hours, 9 a. m. to 5 p. m. Saturdays, 9 a. m. to 12 m.
Telephone, 380 Worth.
F. J. H. Kracke, Commissioner.

DEPARTMENT OF CORRECTION.
Central Office, No. 148 East Twentieth street.
Office hours, from 9 a. m. to 5 p. m., Saturday, 9 a. m. to 12 m.
Telephone, 1047 Gramercy.
Katharine B. Davis, Commissioner.

DEPARTMENT OF DOCKS AND FERRIES.
Pier "A" N. R., Battery place.
Telephone, 300 Rector.
Office hours, 9 a. m. to 5 p. m., Saturdays, 9 a. m. to 12 m.
R. A. C. Smith, Commissioner.

DEPARTMENT OF EDUCATION.
Board of Education.
Park avenue and Fifty-ninth street, Borough of Manhattan, 9 a. m. to 5 p. m. (In August 9 a. m. to 4 p. m.); Saturdays, 9 a. m. to 12 m.
Telephone, 5580 Plaza.
A. Emerson Palmer, Secretary.

DEPARTMENT OF FINANCE.
Stewart Building, Chambers street and Broadway, 9 a. m. to 5 p. m. (June, July and August, 9 a. m. to 4 p. m.); Saturdays, 9 a. m. to 12 m.
Telephone, 1200 Worth.
William A. Prendergast, Comptroller.

DEPARTMENT OF HEALTH.
Centre and Walker streets, Manhattan.
Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Burial Permit and Contagious Disease Offices always open.
Telephone, 6280 Franklin.

Borough of The Bronx, No. 3731 Third avenue, Borough of Brooklyn, Flatbush avenue, Willoughby and Fleet streets, Borough of Queens, Nos. 372 and 374 Fulton street, Jamaica, Borough of Richmond, No. 514 Bay street, Stanleton, Staten Island.
S. S. Goldwater, Commissioner.

DEPARTMENT OF PARKS.
Offices, Arsenal, Central Park.
Telephone, 7300 Plaza.
Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Cabot Ward, Commissioner, Manhattan and Richmond.

BOROUGH OF BROOKLYN.
Litchfield Mansion, Prospect Park, Brooklyn.
Office hours, 9 a. m. to 5 p. m.; July and August, 9 a. m. to 4 p. m.
Telephone, 2304 South.
Raymond V. Ingersoll, Commissioner.
Borough of The Bronx.
Office, Zbrowski Mansion, Claremont Park.
Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 2640 Tremont.
Thomas J. Higgins, Commissioner.
Borough of Queens.
Office, The Overlook, Forest Park, Richmond Hill, L. I.
Walter G. Eliot, Commissioner.

PERMANENT CENSUS BOARD.
No. 114 East 47th street, fourth floor.
Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 3591 Murray Hill.
George H. Chatfield, Secretary.

DEPARTMENT OF PUBLIC CHARITIES.
Principal Office.
Foot of East 26th street; 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Telephone, 7400 Madison Square.
John A. Kingsbury, Commissioner.

Boroughs and Queens.
Nos. 327 to 331 Schermerhorn street, Brooklyn.
Telephone, 2977 Main.
Bureau of Dependent Adults, foot of East 26th street. Office hours, 9 a. m. to 5 p. m.
The Children's Bureau, No. 124 East 50th street. Office hours, 9 a. m. to 5 p. m.

Borough of Richmond.
Richmond Borough Hall, St. George, Staten Island.
Telephone, 1000 Tompkinsville.

DEPARTMENT OF STREET CLEANING.
Municipal Building, 12th floor, 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 m.
Telephone, 4240 Worth.
John T. Fetherston, Commissioner.

DEPARTMENT OF TAXES AND ASSESSMENTS.
Hall of Records, corner Chambers and Centre streets.

Office hours, 9 a. m. to 4 p. m.; Saturday, 9 a. m. to 12 m.
Telephone, 3900 Worth.
C. Rockland Tyng, Secretary.

DEPARTMENT OF WATER SUPPLY, GAS AND ELECTRICITY.

Nos. 13 to 21 Park Row, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.
Telephones: Manhattan, 8520 Cortlandt; Brooklyn, 3980 Main; Queens, 3441 Hunters Point; Richmond, 840 Tompkinsville; Bronx, 3400 Tremont.

Borough of Brooklyn, Municipal Building, Tremont and Arthur avenues, Borough of Queens, Municipal Building, Long Island City, Borough of Richmond, Municipal Building, St. George.
William Williams, Commissioner.

EXAMINING BOARD OF PLUMBERS.
Municipal Building, 8th floor.
Telephone, 1268 Worth.

Office hours, 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 m.
J. A. Glendinning, Clerk.

FIRE DEPARTMENT.

Headquarters: Office hours, from 9 a. m. to 5 p. m.; Saturdays, 12 m. Central offices and fire stations open at all hours.

Headquarters of Department, Nos. 157 and 159 East 67th street, Manhattan. Telephone, 640 Plaza.

Brooklyn office, Nos. 365 and 367 Jay street, Brooklyn. Telephone, 2653 Main.
Robert Adamson, Commissioner.

LAW DEPARTMENT.

Office of Corporation Counsel.

Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m.

Main Office, Hall of Records, Chambers and Centre streets, 6th and 7th floors.

Telephone, 4600 Worth.

Frank L. Polk, Corporation Counsel.

Brooklyn office, No. 153 Pierrepont street.

Telephone, 2948 Main.

Bureau of Street Openings.

Main office, No. 90 West Broadway. Telephone, 5070 Barclay.

Brooklyn branch office, No. 166 Montague street. Telephone, 5916 Main.

Queens branch office, Municipal Building, Court House square, Long Island City. Telephone, 3836 Hunters Point.

Bureau for the Recovery of Penalties.

Municipal Building. Telephone, 3460-3461.

Bureau for the Collection of Arrears of Personal Taxes.

Nos. 280 Broadway, 5th floor. Telephone, 4585 Worth.

Tenant House Bureau and Bureau of Buildings.

Municipal Building, 15th floor. Telephone, 1620 Worth.

METROPOLITAN SEWERAGE COMMISSION.

Office, No. 17 Battery place.

Office hours, 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 m.

Telephone, 1694 Rector.

James H. Fuertes, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION.

Municipal Building, 14th floor. 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.

Labor Bureau.

Municipal Building, 14th floor.

Telephone, 1580 Worth.

Frank A. Spencer, Secretary.

MUNICIPAL EXPLOSIVES COMMISSION.

Nos. 157 and 159 East 67th street, Headquarters.

Fire Department. Telephone, 2304 Franklin.

Meetings at call of Fire Commissioner.

POLICE DEPARTMENT.

Central office, No. 240 Centre street, 9 a. m.

to 5 p. m. (months of June, July and August, 9 a. m. to 4 p. m.); Saturdays, 9 a. m. to 12 m.

Telephone, 3100 Spring.

Douglas L. McKay, Commissioner.

PUBLIC RECREATION COMMISSION.

Municipal Building, eighth floor.

Office hours, 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 m.

Telephone, 1471 Worth.

Commission meeting every second Thursday at 4 p. m.

Cyril H. Jones, Secretary.

PUBLIC SERVICE COMMISSION.

The Public Service Commission for the First District, Tribune Building, No. 154 Nassau street, Manhattan.

Office hours, 8 a. m. to 11 p. m., every day in the year, including holidays and Sundays.

Stated public meetings of the Commission

Tuesdays and Fridays at 12:15 p. m. in the Public Hearing Room of the Commission, third floor of the Tribune Building.

Telephone, 4150 Beckman.

Travis H. Whitney, Secretary.

TENEMENT HOUSE DEPARTMENT.

Manhattan and Richmond office, Municipal Building, 19th floor.

Telephone, 1526 Worth.

Brooklyn and Queens office, 503 Fulton street, Brooklyn. Telephone, 3825 Main.

Bronx office, 391 East 149th street. Telephone, 7107-7108 Melrose.

Office hours, 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 m.

John J. Murphy, Commissioner.

BOROUGH OFFICES.

BOROUGH OF MANHATTAN.

Office of the President, Nos. 14, 15 and 16 City Hall, 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 m.

Telephone, 4227 Worth.

Public Buildings and Offices.

Bureau of Buildings, Municipal Building, 20th floor.

Marcus M. Marks, President.

BOROUGH OF THE BRONX.

Office of the President, corner Third avenue and One Hundred and Seventy-seventh street; 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 m.

Telephone, 2680 Tremont.

Douglas Mathewson, President.

BOROUGH OF BROOKLYN.

President's Office, Nos. 15 and 16, Borough Hall; 9 a. m. to 5 p. m.; Saturday, 9 a. m. to 12 m.

Telephone, 3960 Main.

Lewis H. Pounds, President.

BOROUGH OF QUEENS.

SUBROGATE.

Office, No. 364 Fulton street, Jamaica. Except on Sundays, holidays and half-holidays, the office is open from 9 a. m. to 4 p. m.; Saturdays, from 9 a. m. to 12 m. July and August, 9 a. m. to 2 p. m. Telephone, 397 Jamaica. Daniel Noble, Surrogate.

RICHMOND COUNTY.**COMMISSIONER OF JURORS.**

Village Hall, Stapleton. Office open from 9 a. m. until 4 p. m.; Saturdays, from 9 a. m. to 12 m. Telephone, 81 Tompkinsville. Charles J. Kullman, Commissioner.

COUNTY CLERK.

County Office Building, Richmond, S. I., a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Telephone, 28 New Dorp. C. Livingston Bostwick, County Clerk.

COUNTY JUDGE AND SUBROGATE. Trial Terms, with Grand and Trial Jury. See on Monday of March, First Monday of October. Trial Terms with Trial Jury only, First Monday of May. First Monday of each week, Special Terms, without Jury—Wednesday of each week, except the last week of July, the month of August and the first week of September.

Surrogate's Court—Monday and Tuesday of each week at the Borough Hall, St. George, and on Wednesday at the Surrogate's Court, at Richmond, except during the session of the County Court. There will be no Surrogate's Court during the month of August. Office at Richmond is open daily from 9 a. m. to 4 p. m.; Saturdays, from 9 a. m. to 12 noon. Surrogate's Court and Office, Richmond, S. I. Surrogate's Chambers, Borough Hall, St. George, New Brighton, N. Y. J. Harry Tiernan, County Judge and Surrogate.

DISTRICT ATTORNEY.

Borough Hall, St. George, Staten Island. Telephone, 50 Tompkinsville. Office hours, 9 a. m. to 5 p. m.; Saturdays, 9 a. m. to 12 m. Albert C. Fach, District Attorney.

PUBLIC ADMINISTRATOR.

Office, Port Richmond. Telephone, 704 West Brighton. William T. Holt, Public Administrator.

SHERIFF.

County Court House, Richmond, S. I. Office hours, 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. Telephone, 120 New Dorp. Joseph F. O'Grady, Sheriff.

THE COURTS.**APPELLATE DIVISION OF THE SUPREME COURT.**

First Judicial Department. Court House, Madison avenue, corner Twenty-fifth street. Court open from 2 p. m. until 6 p. m. Friday, Motion Day. Court opens at 10:30 a. m. Motions called at 10 a. m. Orders called at 10:30 a. m. Telephone, 3340 Madison Square. Alfred Wagstaff, Clerk.

SUPREME COURT—FIRST DEPARTMENT. County Court House, Chambers street. Court open from 10:15 a. m. to 4 p. m. Telephone, 4580 Cortlandt.

SUPREME COURT—CRIMINAL DIVISION. Building for Criminal Courts, Centre, Elm, White and Franklin streets. Court opens at 10:30 a. m. Clerk's Office open from 9 a. m. to 4 p. m. Saturdays, 9 a. m. to 12 m. Telephone, 6064 Franklin. William F. Schneider, Clerk.

APPELLATE DIVISION, SUPREME COURT.

Second Judicial Department. Court House, Borough Hall, Brooklyn. Court meets from 1 p. m. to 5 p. m., excepting that on Fridays Court opens at 10 o'clock a. m. Clerk's office opens 9 a. m. Telephone, 1392 Main. John B. Byrne, Clerk.

APPELLATE TERM—SUPREME COURT. Court room, 503 Fulton street, Brooklyn. Court meets 10 a. m. Clerk's office opens 9 a. m. Telephone, 7452 and 7453 Main. Joseph H. DeBrugia, Clerk.

SUPREME COURT—SECOND DEPARTMENT.

Kings County Court House, Joralemon and Fulton streets, Borough of Brooklyn. Clerk's office hours, 9 a. m. to 5 p. m. Seven jury trial terms. Special Term for trials. Special Term for motions. Special Term (ex parte business). Court opens at 10 a. m. Naturalization Bureau, Room 7, Hall of Records, Brooklyn, N. Y. Telephone, 5460 Main. James F. McGee, General Clerk.

Queens County.

County Court House, Long Island City. Court opens at 10 a. m. Trial and Special Term for motions and ex parte business each month except July, August and September, in Part I. Trial Term, Part II, January, February, March, April, May and December.

Special Term for trials, January, April, June and November. Naturalization, first Friday in each Term. Clerk's office open 9 a. m. to 5 p. m., except Saturdays, 9 a. m. to 12:30 p. m. Telephone, 3896 Hunters Point.

Thomas B. Seaman, Special Deputy Clerk in charge. *Richmond County.* Trial Terms to be held at County Court House at Richmond.

Special Terms for trials to be held at Court room, Borough Hall, St. George. Special Terms for motions to be held at Court House, Borough Hall, St. George.

C. Livingston Bostwick, Clerk.

COURT OF GENERAL SESSIONS.

Held in the building for Criminal Courts, Centre, Elm, White and Franklin streets.

Court open from 10:30 a. m. to 4 p. m., and on Saturdays until 12 m.

During July and August Clerk's office will close at 2 p. m., and on Saturdays at 12 m.

Edward R. Carroll, Clerk.

CITY COURT OF THE CITY OF NEW YORK.

No. 42 Chambers street, Brownstone Building. City Hall Park, from 10 a. m. to 4 p. m.

Special Term Chambers will be held from 10 a. m. to 4 p. m.

Clerk's office open from 9 a. m. to 4 p. m.

Telephone, 122 Cortlandt.

Thomas F. Smith, Clerk.

COURT OF SPECIAL SESSIONS.

Building for Criminal Courts, Centre street, between Franklin and White streets, Borough of Manhattan. Telephone, 3983 Franklin.

Court opens at 10 a. m.

Part I, Criminal Courts Building, Borough of Manhattan.

Part II, 171 Atlantic avenue, Borough of Brooklyn. Telephone, 428 Main.

Part III, Town Hall, Jamaica, Borough of Queens. Held on Tuesday of each week. Telephone, 2620 Jamaica.

Part IV, Borough Hall, St. George, Borough of Richmond. Held on Wednesday of each week. Telephone, 324 Tompkinsville.

Part V, County Court House, 161st street and 1st avenue, Borough of The Bronx. This Part is held on Thursday of each week. William E. Cullen Clerk. Telephone, 9088 Melrose.

Frank W. Smith, Chief Clerk.

CHILDREN'S COURT.

New York County—No. 66 third avenue, Manhattan. Telephone, 1832 Stuyvesant.

Dennis A. Lambert, Clerk.

Bronx County—No. 355 East 137th street. The Bronx. This Court is held on Wednesday of each week. Telephone, 9092 Melrose.

Michael Murray, Clerk.

Kings County—No. 102 Court street, Brooklyn. Telephone, 627 Main.

Joseph W. Duffy, Clerk.

Queens County—No. 19 Flushing avenue, Jamaica. This court is held on Monday and Thursday of each week. Telephone, 2624 Jamaica.

Sydney Olendorff, Clerk.

Richmond County—Corn Exchange Bank Building, St. George, S. I. Court is held on Tuesday of each week. Telephone, 324 Tompkinsville.

William J. Browne, Clerk.

CITY MAGISTRATES' COURT.

First Division. Court open from 9 a. m. to 4 p. m.

Telephone, 6213 Spring.

Second District—Criminal Court Building.

Third District—Second avenue and First street.

Fourth District—151 East Fifty-seventh street.

Fifth District—One Hundred and Twenty-first street, southeastern corner of Sylvan place.

Sixth District—One Hundred and Sixty-second street and Washington avenue.

Seventh District—No. 314 West Fifty-fourth street.

Eighth District—1014 East One Hundred and Eighty-first street, west of Boston road, The Bronx.

Ninth District (Night Court for Females)—No. 125 Sixth avenue.

Tenth District (Night Court for Males)—No. 151 East Fifty-seventh street.

Eleventh District—Domestic Relations Court—151 East Fifty-seventh street.

Thirteenth District—(Domestic Relations) Court room, No. 1014 East One Hundred and Eighty-first street, west of Boston road.

Philip Bloch, Chief Clerk, 300 Mulberry st.

Second Division.

Borough of Brooklyn.

Office of Chief Magistrate, 44 Court street, Room 209-214. Telephone, 7411 Main.

Courts.

First District—No. 318 Adams street.

Second District—Court and Butler streets.

Fifth District—No. 249 Manhattan avenue.

Sixth District—No. 495 Gates avenue.

Seventh District—No. 31 Snider avenue (Flatbush).

Eighth District—West Eighth street (Coney Island).

Ninth District—Fifth avenue and Twenty-third street.

Tenth District—No. 133 New Jersey avenue.

Domestic Relations Court—Myrtle and Van derbilt avenues.

William F. Delaney, Chief Clerk.

Borough of Queens.

Courts.

Fifth District—St. Mary's Lyceum, Long Island City.

Second District—Town Hall, Flushing, L. I.

Third District—Central avenue, Far Rockaway, L. I.

Fourth District—Town Hall, Jamaica, L. I.

Borough of Richmond.

First District—Lafayette avenue, New Brighton, Staten Island.

Second District—Village Hall, Stapleton, Staten Island.

All Courts open daily for business from 9 a. m. to 4 p. m., except on Saturdays, Sundays and holidays, when ~~all~~ morning sessions are held.

MUNICIPAL COURTS.

Borough of Manhattan.

First District—Location of Court, Merchants' Association Building, Nos. 54-60, Lafayette street.

Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. July and August, from 9 a. m. to 2 p. m.

Additional Part is held at southwest corner of Sixth avenue and Tenth street.

Telephone, 6030 Franklin.

Second District—Location of Court, Nos. 264 and 266 Madison street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.

Telephone, 4300 Orchard.

Third District—Location of Court, No. 314 West Fifty-fourth street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.

Telephone, 4300 Columbus.

Fourth District—Location of Court, Part I and Part II, No. 207 East Thirty-second street.

Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.

Telephone, 4358 Murray Hill.

Fifth District—Location of Court, northwest corner of Broadway and Ninety-sixth street.

Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.

Telephone, 4008 Riverside.

Sixth District—Location of Court, Nos. 155 and 157 East 88th street. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m. July and August, from 9 a. m. to 2 p. m.

Telephone, 3873 Plaza.

Ninth District.

Location of Court, southwest corner of Madison avenue and Fifty-ninth street.

Courts I and II. Court open at 9 a. m. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.; Saturdays, 9 a. m. to 12 m.

Telephone, 3950 Harlem.

Tenth District—Location of Court, Sylvan place and One Hundred and Twenty-first street, near Third avenue. Clerk's Office open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m.

Telephone, 3873 Plaza.

Borough of The Bronx.

First District—Court Room, Town Hall, No. 1400 Williamsbridge road, Westchester, New

York City. Court open daily (Sundays and legal holidays excepted) from 9 a. m. to 4 p. m. Trial of causes, Tuesday and Friday of each week.

Office hours from 9 a. m. to 4 p. m., Saturdays, 9 a. m. to 12 m.

Telephone, 457 Westchester.

Second District—Court room, southeast corner of Washington avenue and One Hundred and Sixty-second street. Office hours from 9 a. m. to 4 p. m. Court opens at 9 a. m. (Sundays and legal holidays excepted).

Telephone, 3043 Melrose.

Borough of Brooklyn.

TUESDAY, FEBRUARY 17, 1914.

MUNICIPAL CIVIL SERVICE COMMISSION, NEW YORK, MUNICIPAL BUILDING, MANHATTAN, NEW YORK, February 5, 1914.
PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

THURSDAY, FEBRUARY 5, 1914, TO 4 P.M.
FRIDAY, FEBRUARY 6, 1914,

for the position of

TELEPHONE OPERATOR (Male) Grade 1.

No applications delivered at the office of the Commission, by mail or otherwise, after 4 p.m., Friday, February 20, 1914, will be accepted. Application blanks will be mailed upon request, but the Commission will not guarantee the delivery of the same. Applications, forwarded by mail, upon which postage is not fully prepaid, will not be accepted.

Applicants must be citizens of the United States and residents of the State of New York.

The subjects and weights of the examination are: Duties, 3; experience, 7, 70 per cent, required on all.

Candidates must be familiar with operating telephone switchboards as used by the New York and New Jersey Telephone Companies.

Minimum age, 18 years. Salary \$600 to, but not including, \$1,200 per annum. Vacancies constantly occur.

F. A. SPENCER, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, NEW YORK, MUNICIPAL BUILDING, MANHATTAN, PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

WEDNESDAY, FEBRUARY 4, 1914, TO 4 P.M.
THURSDAY, FEBRUARY 5, 1914,

for the position of

EXAMINER, MECHANICAL ENGINEERING (Civil Service).

No applications delivered at the office of the Commission, by mail or otherwise, after 4 p.m., Thursday, February 19, 1914, will be accepted. Application blanks will be mailed upon request, but the Commission will not guarantee the delivery of the same. Applications, forwarded by mail, upon which full postage is not prepaid, will not be accepted.

Applicants must be citizens of the United States and residents of the State of New York. The date of the examination will be announced later.

The subjects and weights of the examination are: Experience (Form B), 50; duties, 30; technical, 20. A rating of 70 per cent. on the experience paper is necessary to qualify to take the remainder of the examination. A rating of 75 per cent. is required on the technical paper, and a final rating of 75 per cent. is required.

Applications for this examination must be filed on a special blank, Form B. Experience blanks will be issued with the applications and must be filed with the Commission at the time of filing applications. The experience paper will then be rated. Candidates receiving less than 70 per cent. on the experience paper will not be summoned for the remainder of the examination.

Candidates must have had at least five years' experience; a full course in a technical institution of standing will be credited with two years.

Candidates should have general knowledge and experience in engineering work, particularly relating to municipal work; they should be familiar with the principles of the Civil Service and its application to Municipal Service. Candidates should preferably have experience in the preparation and rating of examinations.

Minimum age, 25 years. The compensation is \$10 per day when employed.

F. A. SPENCER, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, NEW YORK, MUNICIPAL BUILDING, MANHATTAN, PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

WEDNESDAY, FEBRUARY 4, 1914, TO 4 P.M.
THURSDAY, FEBRUARY 5, 1914,

for the position of

EXAMINER, CIVIL ENGINEERING (Civil Service).

No applications delivered at the office of the Commission, by mail or otherwise, after 4 p.m., Thursday, February 19, 1914, will be accepted. Application blanks will be mailed upon request, but the Commission will not guarantee the delivery of the same. Applications, forwarded by mail upon which postage is not fully prepaid, will not be accepted.

Applicants must be residents of the State of New York and citizens of the United States. The date of the examination will be announced later.

The subjects and weights of the examination are: Experience (Form B), 50; Duties, 30; Technical, 20. A rating of 70 per cent. on the experience paper is necessary to qualify to take the remainder of the examination. A rating of 75 per cent. is required on the technical paper, and a final rating of 75 per cent. is required.

Applications for this examination must be filed on a special blank, Form B. Experience blanks will be issued with the applications and must be filed with the Commission at the time of filing applications. The experience paper will then be rated. Candidates receiving less than 70 per cent. on the experience paper will not be summoned for the remainder of the examination.

Candidates must have had at least five years' experience; a full course in a technical institution of standing will be credited with two years.

Candidates should have general knowledge and experience in engineering work, particularly relating to municipal work; they should be familiar with the principles of the Civil Service and its application to municipal service. Candidates should preferably have experience in the preparation and rating of examinations.

Minimum age, 25 years. The compensation is \$10 per day when employed.

F. A. SPENCER, Secretary.

MUNICIPAL CIVIL SERVICE COMMISSION, NEW YORK, MUNICIPAL BUILDING, MANHATTAN, PUBLIC NOTICE IS HEREBY GIVEN THAT applications will be received from

TUESDAY, FEBRUARY 3, 1914, TO 4 P.M.
WEDNESDAY, FEBRUARY 4, 1914,

for the position of

PHOTOGRAPHER, X-RAY.

No application delivered at the office of the Commission, by mail or otherwise, after 4 p.m., Wednesday, February 18, 1914, will be accepted. Application blanks will be mailed upon request, but the Commission will not guarantee the delivery of the same. Application blanks upon which full postage is not prepaid will not be accepted.

Applicants must be citizens of the United States and residents of the State of New York.

The subjects and weights of the examination are: Technical, 6; experience, 4, 75 per cent. will be required on the technical paper and 70 per cent. on the entire examination.

Applications for this examination must be filed on a special blank, Form B. Experience blanks will be issued with the applications and must be filed with the Commission at the time of filing applications.

Candidates must be licensed to practice medicine in the State of New York. The license or certificate of registration from the County Clerk must be submitted at the time of filing application.

Candidates should be able to take X-Ray photographs, to make diagnoses by the use of the

X-Ray and to give treatment for various diseases by use of the X-Ray.

The salary is \$1,200 to \$1,800 per annum. The minimum age is 21 years. Vacancies occur from time to time.

Certification will be made from this eligible list to fill vacancies in position of Radiographer.

F. A. SPENCER, Secretary.

DEPARTMENT OF PARKS.

Proposals.

OFFICE OF THE DEPARTMENT OF PARKS, ARSENAL BUILDING, 5TH AVE. AND 64TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE RECEIVED BY THE PARK BOARD AT THE ABOVE OFFICE OF THE DEPARTMENT OF PARKS UNTIL 3 O'CLOCK P.M., ON

THURSDAY, FEBRUARY 26, 1914.

Borough of Manhattan.

FOR FURNISHING AND DELIVERING FOUR LIGHT DRAFT HORSES.

The time allowed for the completion of the contract is thirty calendar days.

The amount of security required is thirty (30) per cent. of the amount for which the contract is awarded. Certified check or cash must accompany bid.

The bids will be compared and the contract awarded at a lump or aggregate sum. Blank forms and other information may be obtained at the office of the Department of Parks, Boroughs of Manhattan and Richmond, Arsenal, Central Park, 64th st. & 5th ave., on personal application; or by mail, only when request is accompanied by ten (10) cents in stamps to pay postage.

CABOT WARD, President; THOMAS J. HIGGINS, RAYMOND V. INGERSOLL, WALTER G. ELIOT, Commissioners of Parks.

^{f14,26} See General Instructions to Bidders on last page, last column, of the "City Record."

COMMISSIONERS OF SINKING FUND.

Notices of Public Hearings.

PUBLIC NOTICE IS HEREBY GIVEN THAT

the Commissioners of the Sinking Fund, in accordance with the provisions of chapter 372 of the Laws of 1907, will hold a public hearing in Room 16, City Hall, Borough of Manhattan, at 11 o'clock in the forenoon, on Wednesday, March 4, 1914, relative to a request of the Commissioner of Docks that the Commissioners of the Sinking Fund approve the plan for the alteration and amendment of the plan for improving the waterfront and harbor of the City of New York (as adopted by the Commissioner of Docks May 31, 1906, and approved by the Commissioners of the Sinking Fund June 20, 1906) in the vicinity of 38th street, Borough of Brooklyn, made and adopted by the Commissioner of Docks in accordance with the Commissioner of Docks in accordance with the law January 27, 1914.

The proposed alteration and amendment to the plan consists in the discontinuance of a pier (not built) 126,659 feet in width adjacent to the northerly side of the northerly ferry rack of the Municipal Ferry at the foot of 38th street, Gowanus Bay, Borough of Brooklyn.

The plan for the alteration and amendment as adopted by the Commissioner of Docks is open for the inspection of any citizen at the office of the Comptroller of The City of New York at all times during business hours until the date of the hearing.

Dated New York, February 11, 1914.

JOHN PURROY MITCHEL, Mayor, Chairman, Commissioners of the Sinking Fund.

f16,21

PUBLIC NOTICE IS HEREBY GIVEN THAT

the Commissioners of the Sinking Fund, in accordance with the provisions of chapter 372 of the Laws of 1907, will hold a public hearing in Room 16, City Hall, Borough of Manhattan, at 11 o'clock in the forenoon, on Wednesday, March 4, 1914, relative to a request of the Commissioner of Docks that the Commissioners of the Sinking Fund approve the plan for the alteration and amendment of the plan for the improvement of the waterfront and harbor of The City of New York, as determined by the Board of Docks April 13, 1871, and approved by the Commissioners of the Sinking Fund April 27, 1871, on the North River between Rector and Albany streets, made and adopted by the Commissioner of Docks in accordance with the law January 20, 1914.

The proposed alteration and amendment consists in changing the position of Pier No. 8, North River, from its position as shown on the map as determined by the Board of Docks April 13, 1871, and approved by the Commissioners of the Sinking Fund April 27, 1871, so as to make said pier parallel with Pier No. 10 (new) near the foot of Albany street, the southerly side of said Pier No. 8 intersecting the established bulkhead line at a point distant 189,30 feet north of the northerly side of Pier No. 7.

Also, widening Pier No. 9, North River, to a pier seventy-five (75) feet in width and changing its position so that the southerly side thereof will be 165 feet north of and parallel with the proposed pier No. 8.

Also, the establishment of a marginal street, wharf or place one hundred and eighty (180) feet in width extending from the westerly side of West street to the established bulkhead line from a line drawn at right angles to the bulkhead line from a point in same distant 141,30 feet north of the northerly side of Pier No. 7 (New) northerly to a line drawn at right angles to the established bulkhead line from a point in same distant 52,33 feet south of the southerly side of Pier No. 10 (New);

Also, the adoption of a bulkhead line between Rector and Albany streets coincident with the bulkhead line established by the Secretary of War in 1890;

Also, the adoption of a pierhead line within the above described limits coincident with the Pierhead Line established by the Secretary of War, March 1st, 1913.

This proposed alteration and amendment of the plan is for the purpose of carrying into effect the amendment of the lease to the Lehigh Valley Railroad Company of Piers New 8 and New 9, North River.

The plan is open for the inspection of any citizen at the office of the Comptroller of The City of New York, 280 Broadway, Borough of Manhattan, at all times during business hours until the date of the hearing.

Dated New York, February 11, 1914.

JOHN PURROY MITCHEL, Mayor, and Chairman, Commissioners of the Sinking Fund.

f16,21

PUBLIC NOTICE IS HEREBY GIVEN THAT

the Commissioners of the Sinking Fund, in accordance with the provisions of chapter 372 of the Laws of 1907, will hold a public hearing in Room 16, City Hall, Borough of Manhattan, at 11 o'clock in the forenoon, on Wednesday, March 4, 1914, relative to a request of the Commissioner of Docks that the Commissioners of the Sinking Fund approve the plan for the alteration and amendment of the plan for the improvement of the waterfront and harbor of The City of New York, as determined by the Board of Docks April 13, 1871, and approved by the Commissioners of the Sinking Fund April 27, 1871, so as to make said pier parallel with Pier No. 10 (new) near the foot of Albany street, the southerly side of said Pier No. 8 intersecting the established bulkhead line at a point distant 189,30 feet north of the northerly side of Pier No. 7 (New);

Also, widening Pier No. 9, North River, to a pier seventy-five (75) feet in width and changing its position so that the southerly side thereof will be 165 feet north of and parallel with the proposed pier No. 8.

Also, the establishment of a marginal street, wharf or place one hundred and eighty (180) feet in width extending from the westerly side of West street to the established bulkhead line from a line drawn at right angles to the bulkhead line from a point in same distant 141,30 feet north of the northerly side of Pier No. 7 (New) northerly to a line drawn at right angles to the established bulkhead line from a point in same distant 52,33 feet south of the southerly side of Pier No. 10 (New);

Also, the adoption of a bulkhead line between Rector and Albany streets coincident with the bulkhead line established by the Secretary of War in 1890;

Also, the adoption of a pierhead line within the above described limits coincident with the Pierhead Line established by the Secretary of War, March 1st, 1913.

This proposed alteration and amendment of the plan is for the purpose of carrying into effect the amendment of the lease to the Lehigh Valley Railroad Company of Piers New 8 and New 9, North River.

The plan is open for the inspection of any citizen at the office of the Comptroller of The City of New York, 280 Broadway, Borough of Manhattan, at all times during business hours until the date of the hearing.

Dated New York, February 11, 1914.

JOHN PURROY MITCHEL, Mayor, and Chairman, Commissioners of the Sinking Fund.

f16,21

PUBLIC NOTICE IS HEREBY GIVEN TO

all persons claiming to have been injured by a

change of grade in the regulating and grading of the following named streets to present their claims, in writing, to the Secretary of the Board of Assessors, No. 320 Broadway, on or before

March 3, 1914, at 10 o'clock a.m., at which place and time the said Board of Assessors will receive evidence and testimony of the nature and extent of such injury. Claimants are requested to make their claims for damages upon the blank form prepared by the Board of Assessors, copies of which may be obtained upon application at the above office.

Borough of Brooklyn.

3928. Kingston Ave., from President St. to Malbone St.

3939. Stewart Ave., from Flushing Ave. to Grand St.

3940. 36th St., from 12th Ave. to West St., and New Utrecht Road, from Church Ave. and 36th St. to 14th Ave.

Borough of Queens.

3906. Catalpa Ave., from Fresh Pond Road to Myrtle Ave., 2d Ward.

3907. East Ave., from 9th St. to Nott Ave., 1st Ward.

Borough of The Bronx.

3928. Regulating, grading, curbing, flagging, etc., Kingsbridge road, from Bailey ave., to the boundary line between the Boroughs of Manhattan and The Bronx, excepting the space between the tracks of the New York and Putnam road, and from Heath ave. to Bailey ave.; also W.

225th St. (Muscoota st.), from Broadway to the Borough line, Affecting Block Nos. 3201, 3202,

3204, 3205, 32

PUBLIC SERVICE COMMISSION.

Notice of Hearing on Form of Contract.

NOTICE IS HEREBY GIVEN THAT A PUBLIC hearing will be held at the offices of the Public Service Commission for the First District at 154 Nassau street, Borough of Manhattan, New York City, on the 27th day of February, 1914, at 12:15 o'clock p. m., upon the proposed terms and conditions of the contract for the construction of Routes Nos. 43 and 26, being part of the Seventh Avenue-Lexington Avenue Rapid Transit Railroad, which routes may be briefly described as follows:

Route No. 43. Beginning under Park avenue, between 38th and 41st streets, where connection can be made with the existing subway, thence northerly under Park avenue to a point near 41st street; thence curving northeasterly under 41st street, private property and 42d street to a point near the northerly building line of 42d street, between Lexington avenue and Depew place.

Route No. 26. Beginning at a point under 42d street, opposite the west building line of Vanderbilt avenue, and extending easterly under said street to a point about 100 feet east of Lexington avenue.

Copies of the draft of said contract may be obtained at the said office of the said Public Service Commission for one dollar each.

Dated New York, February 10, 1914.

PUBLIC SERVICE COMMISSION FOR

THE FIRST DISTRICT,

By EDWARD E. McCALL, Chairman.

TRAVIS H. WHITNEY, Secretary. f1,27

NOTICE OF HEARING ON FORM OF CONTRACT.

NOTICE IS HEREBY GIVEN THAT A PUBLIC hearing will be held at the offices of the Public Service Commission for the First District, at 154 Nassau street, Borough of Manhattan, New York City, on the 20th day of February, 1914, at 12:15 o'clock p. m., upon the proposed terms and conditions of the contract for the construction of Section No. 7 of Route No. 5, being part of the Seventh Avenue-Lexington Avenue Rapid Transit Railroad, which section may be briefly described as follows:

Section No. 7. Beginning at a point under Lexington avenue, in the Borough of Manhattan, near the southerly building line of East 43d street and extending thence northerly under Lexington avenue to a point about fifty (50) feet north of the centre line of East 53d street.

Copies of the draft of said contract may be obtained at the said office of the said Public Service Commission for one dollar each.

Dated New York, February 1, 1914.

PUBLIC SERVICE COMMISSION FOR THE FIRST DISTRICT,

By EDWARD E. McCALL, Chairman.

TRAVIS H. WHITNEY, Secretary. f1,20

NOTICE IS HEREBY GIVEN THAT A PUBLIC hearing will be held at the offices of the Public Service Commission for the First District, at 154 Nassau street, Borough of Manhattan, New York City, on the 17th day of February, 1914, at twelve-fifteen o'clock p. m., upon the proposed terms and conditions of the contract for the construction of Section No. 2 of Route No. 20, being the Canal street branch of the Broadway-Fourth Avenue Rapid Transit Railroad, which section may be briefly described as follows:

Section No. 2. Beginning at a point under Canal street, about thirty (30) feet east of the easterly building line of Broadway and extending thence easterly under Canal street to a point about thirty-five (35) feet east of the easterly building line of the Bowery.

This contract has been prepared in two alternative forms to conform to the plans which will be submitted to bidders on alternative methods of construction, so that bids may be submitted on one or both alternatives.

Copies of the draft of said contract may be obtained at the said office of the said Public Service Commission for one dollar (fifty cents for each type).

Dated New York, January 30, 1914.

PUBLIC SERVICE COMMISSION FOR

THE FIRST DISTRICT,

By EDWARD E. McCALL, Chairman.

TRAVIS H. WHITNEY, Secretary. f1,21

Proposals.

INVITATION TO CONTRACTORS.

Part of the Seventh Avenue-Lexington Avenue Rapid Transit Railroad.

Part of Routes Nos. 4 and 38.

THE PUBLIC SERVICE COMMISSION FOR the First District (hereinafter called "the Commission") invites proposals to construct Section No. 4 of Routes 4 and 38, a part of the Seventh Avenue-Lexington Avenue Rapid Transit Railroad.

The points within The City of New York between which the said part is to run and the route or routes to be followed are briefly as follows:

Section No. 4.—Beginning at a point under Seventh Avenue Extension, in the Borough of Manhattan, opposite the southerly building line of Commerce Street and extending thence northerly under Seventh Avenue Extension and Seventh Avenue to a point about seventy-nine (79) feet north of the northerly building line of West Sixteenth Street.

The general plan of construction calls for a subsurface railroad having four tracks. The details of the construction of the Railroad and appurtenances are more particularly indicated on the contract drawings.

The contractor will not be required to provide or lay tracks, ties or ballast nor to do station work.

The work of construction under the contract will include the construction of all necessary sewers and connections, along or off the route of the railroad; also the necessary support, maintenance, readjustment and reconstruction of vaults adjacent to buildings, pipes, tubes, conduits, subways or other subsurface structures; the support and care, including underpinning or the maintaining, protecting and securing, where necessary, of all buildings, monuments, surface and subsurface railroads and other surface, subsurface and overhead structures of any kind, etc., affected by the work or interfered with during the construction of the work; also the restoration of the sidewalks and roadways.

The method of construction, unless otherwise permitted by the Commission, will be partly by trench excavation under cover and partly by open trench excavation without cover as set forth in the form of contract.

Bidders must examine the form of contract and the specifications, maps and drawings; must visit the location of the work and inform themselves of the present conditions along the line thereof and make their own estimates of the facilities and difficulties attending the execution of the proposed work.

A fuller description of the work to be done is set forth, and other requirements, provisions, details and specifications are stated in the printed form of contract, bond and contractor's proposal may be had on application at the office of the Commission, No. 154 Nassau street, Bor-

ough of Manhattan, City of New York. The contract drawings may be inspected at the same office, and copies thereof may be purchased by prospective bidders on payment of five dollars (\$5). The printed form of contract and the contract drawings are to be deemed a part of this invitation.

The City of New York (hereinafter called the "City") and the Interborough Rapid Transit Company will both be parties to the contract; the Interborough Rapid Transit Company being a party for the purpose of disbursing part of its contribution toward the cost of construction as provided in the contract dated March 19, 1913, between the City, acting by the Commission, and Interborough Rapid Transit Company for the equipment, maintenance and operation of additional rapid transit railroads. The liability of Interborough Rapid Transit Company under the contract for which bids are now invited will be limited to an amount equal to ninety-five (95) per centum of the aggregate sum arrived at by multiplying the estimated approximate quantities by the unit prices as contained in the Schedule of Unit Prices in the contractor's proposal. The contractor is to accept the obligation of the Interborough Rapid Transit Company to make payments to the amount and in the manner provided in the contract and is to agree not to look to the City except to the extent that the amounts earned under the contract may exceed the amount for which the Interborough Rapid Transit Company is liable.

Partial payments to the contractor will be made monthly as the work proceeds, as provided in the form of contract.

The contractor will be required to complete the work as soon as practicable and within a period of thirty-three (33) months from the date of the delivery of the contract.

Sealed bids or proposals will be received at the office of the Commission at No. 154 Nassau street, Borough of Manhattan, City of New York, until the 2d day of March, 1914, at twelve fifteen (12:15) o'clock p. m., at which time, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission, copies of which may be obtained at the office of the Commission.

A statement, based upon estimate of the Engineer of the Commission, of the quantities of the various classes of the work and of the nature and extent as near as practicable of the work required is to be found in the schedule forming a part of the form of contractor's proposal. The quantities given in such schedule are approximate only, being given as a basis for the uniform comparison of bids, and no claim is to be made against the City on account of any excess or deficiency, absolute or relative, in the same, except as provided in the specifications and form of contract.

All proposals must, when submitted, be enclosed in a sealed envelope endorsed "Proposed for Constructing Part of Rapid Transit Railroad—Routes Nos. 4 and 38, Section No. 4" and must be delivered to the Commission or its Secretary, and in the presence of the person submitting the proposal, it will be deposited in a sealed box in which all proposals will be deposited. No proposal will be received or deposited unless accompanied by a separate certified check for the sum of Fifteen Thousand Dollars (\$15,000) payable to the order of the Comptroller of the City and drawn upon a National or State bank or trust company satisfactory to the Commission, having its principal office in The City of New York. Such check must not be enclosed in the envelope containing the proposal.

The Unit Prices must not be improperly balanced, and any bid which the Commission considers detrimental to the City's interests may be rejected.

No proposal, after it shall have been deposited with the Commission, will be allowed to be withdrawn for any reason whatever.

The award of the contract will be made by the Commission as soon as practicable after the opening of the proposals.

Bidders whose proposals are otherwise satisfactory, in case the sureties or securities named by them are not approved by the Commission, may substitute in their proposals the names of other sureties or securities approved by the Commission, but such substitution must be made within five (5) days after notice of disapproval, unless such period is extended by the Commission.

A bidder whose proposal shall be accepted shall, in person or by duly authorized representative, attend at the said office of the Commission within ten (10) days after the delivery of a notice by the Commission that his proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and such bidder shall then deliver a contract in the form referred to, duly executed and with its execution duly proved.

At the time of the delivery of the contract, the contractor will be required to furnish security to the City by giving a bond for One Hundred and Fifty Thousand Dollars (\$150,000). At the option of the successful bidder cash or approved securities may be deposited instead of giving a bond. If securities are deposited in place of a bond under the contract, they must be of the character of securities in which savings banks may invest their funds and must be approved by the Commission.

The contractor's bond must be in the form annexed to the form of contract.

In addition and as further security fifteen (15) per centum of the amounts certified from time to time to be due to the contractor will be deducted, until the amounts so deducted and retained shall equal ten (10) per centum of the sum of the amounts resulting from the product of the estimated approximate quantities and the Unit Prices as contained in the Schedule of Unit Prices in the contractor's proposal.

Thereafter there shall be so deducted and retained for such purpose ten (10) per centum of the amounts certified from time to time to be due to the contractor. The contractor may from time to time withdraw portions of the amounts so retained upon depositing in lieu thereof corporate stock of the City equal in market value to the amount withdrawn.

In case of failure or neglect to execute and deliver the contract or to execute and deliver the required bond or to make the required deposit, such bidder will, at the option of the Commission, be deemed either to have made the contract or to have abandoned the contract. In the latter case, the Commission will give notice thereof to such defaulting bidder, and the Commission may thereupon proceed to make another contract with such, if any, of the original bidders, as, in the opinion of the Commission, it will be to the best interests of the City to contract with, or may by new advertisement invite further proposals. The defaulting bidder shall thereupon be liable to the City for all loss and damage by it sustained, including the excess, if any, of the amount it shall pay any other contractor over the amount of the bid of such defaulting bidder.

If the Commission shall notice to any bidder that his or its proposal is accepted and that the contract is consented to by the Board of Estimate and Apportionment, and if the bidder shall fail within ten (10) days thereafter or within such further period, if any, as may be prescribed by the Commission, to execute and deliver the contract and to execute and deliver

the bond with sureties or to make the required deposit, then this Invitation to Contractors and proposal accepted as aforesaid shall be a contract binding the bidder to pay to the City the damage by it sustained by reason of such failure, and in such case the bidder shall, by the terms of the proposal, absolutely assign to the City the ownership of the check accompanying his or its proposal as a payment on account of such damages.

All such deposits made by bidders whose proposals shall not be accepted by the Commission will be returned to the person or persons making the same within five (5) days after the contract shall be executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions in respect of the bond or deposit are complied with.

The right to reject any and all bids is reserved.

New York, February 6, 1914.

PUBLIC SERVICE COMMISSION FOR

THE FIRST DISTRICT,

By EDWARD E. McCALL, Chairman.

TRAVIS H. WHITNEY, Secretary. f10,22

INVITATION TO CONTRACTORS.

FOR THE SUPPLY OF TRACK MATERIALS FOR USE IN THE CONSTRUCTION OF RAPID TRANSIT RAILROADS.

The Public Service Commission for the First District (hereinafter called "the Commission") invites proposals to supply track materials for use in the construction of rapid transit railroads, to wit:

OPEN-HEARTH RAIL, MANGANESE RAIL, SPLICE BARS, END INCLINES, ADJUSTABLE SEPARATORS, CUT TRACK SPIKES, SCREW SPIKES, TIES AND TIMBER, BOLTS AND NUTS, TIE LOCKS, WASHERS, RAIL BRACES, TIE PLATES, FELT PADS, ANTI-CREEPERS AND BAL-

A. A fuller description of the materials to be supplied is set forth, and other requirements, provisions, details and specifications are stated in the form of contract and in the contract drawings therein referred to. Copies of the form of contract, contract drawings, bond and contractor's proposal may be inspected and purchased at the office of the Commission, No. 154 Nassau street, Borough of Manhattan, New York City.

A separate proposal in a separate book shall be submitted for each class of material bid upon.

Sealed bids or proposals for each class of material separately will be received at the office of the Commission at No. 154 Nassau street, Borough of Manhattan, City of New York, until the 24th day of February, 1914, at twelve-fifteen (12:15) o'clock p. m., at which time, or at a later date to be fixed by the Commission, the proposals will be publicly opened.

Proposals must be in the form prescribed by the Commission.

Bidders shall specify in their proposals the times of first and last delivery of the material, in view of the necessity for prompt deliveries. The times of delivery as set forth in the Contractor's Proposal as well as the prices contained therein will be considered in awarding the contract.

Bidders for the supply of tie-plates must submit with their proposals drawings showing the details of the tie-plates to be furnished, and bidders for the supply of anti-creepers must submit with their proposals drawings showing the details of the anti-creepers to be furnished.

Each proposal must, when submitted, be enclosed in a sealed envelope endorsed "Proposed for supplying . . . for use in the construction of Rapid Transit Railroads," and must be delivered to the Commission or its Secretary, and in the presence of the person submitting the proposal it will be deposited in a sealed box. No proposal will be received unless accompanied by a separate certified check drawn upon a National or State bank or trust company having its principal office in The City of New York, satisfactory to the Commission and payable to the order of the Comptroller of The City of New York, for the sum of Five Hundred Dollars (\$500). Such check must not be enclosed in the envelope containing the proposal.

Proposals made by bidders whose proposals are not accepted will be returned within five (5) days after the contract is executed and delivered. The deposit of the successful bidder will be returned when the contract is executed and its provisions in respect of the bond or deposit are complied with.

No proposal, after it shall have been deposited with the Commission, will be allowed to be withdrawn for any reason whatever.

The award of the contract will be made by the Commission as soon as practicable after the opening of the proposals.

The right to reject any and all bids is reserved.

New York, January 30, 1914.

PUBLIC SERVICE COMMISSION FOR

THE FIRST DISTRICT,

By EDWARD E. McCALL, Chairman.

TRAVIS H. WHITNEY, Secretary. f10,24

* Here insert name of class of material for which bid is submitted.

DEPARTMENT OF CORRECTION

Proposals.

DEPARTMENT OF CORRECTION, No. 148 E. 20th St., BOROUGH OF MANHATTAN, THE CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Commissioner of Correction at the above office until 11 o'clock a. m., on

TUESDAY, FEBRUARY 24, 1914.

No. 1, FOR FURNISHING ALL THE LABOR AND MATERIALS REQUIRED TO MAKE ALL THE NECESSARY REPAIRS TO THE ICE MAKING PLANT ON HART'S ISLAND, NEW YORK.

The time for the completion of the work and the full performance of the contract is by or before sixty (60) working days.

The amount of security required is thirty (30) per cent. of the amount of bid or estimate.

Bids will be compared and the contract awarded at a lump or aggregate sum.

Blank forms and further information may be seen at the office of the Department of Correction, the Borough of Manhattan, No. 148 E. 20th St.

KATHARINE BEMENT DAVIS, Commissioner.

Dated February 6, 1914. f10,24

See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF ESTIMATE AND APPORTIONMENT.

(3) months after they are chosen. They shall act as appraisers and not as arbitrators. They may base their judgment upon their own experience and upon such information as they may obtain by inquiries and investigations, without the presence of either party. They shall have the right to examine any of the books of the Company and its officers under oath. The valuation so ascertained, fixed and determined shall be conclusive upon both parties, but no annual sum shall in any event be less than the sum required to be paid for the last year of the original term of this contract. If, in any case, the annual rate shall not be fixed prior to the termination of the original term of this contract, then the Company shall pay the annual rate theretofore prevailing until the new rate shall be determined, and shall then make up to the City the amount of any excess of the annual rate then determined over the previous annual rate. The compensation and expenses of the said appraisers shall be borne jointly by the City and the Company, each paying one-half thereof.

Second—The Company shall pay to the City for the privilege hereby granted the following sums of money:

(a) The sum of five hundred dollars (\$500) in cash within one (1) month after the date on which this contract is signed by the Mayor and before anything is done in exercise of the privilege hereby granted.

(b) During the first term of five years an annual sum which shall in no case be less than two hundred and fifty dollars (\$250), and which shall be equal to two (2) per cent, of its gross annual receipts, if such percentage shall exceed the sum of two hundred and fifty dollars (\$250).

During the second term of five years an annual sum which shall in no case be less than three hundred and fifty dollars (\$350), and which shall be equal to three (3) per cent, of its gross annual receipts, if such percentage shall exceed the sum of three hundred and fifty dollars (\$350).

During the third term of five years an annual sum which shall in no case be less than five hundred dollars (\$500), and which shall be equal to three (3) per cent, of its gross annual receipts, if such percentage shall exceed the sum of five hundred dollars (\$500).

The gross annual receipts mentioned above shall be the total receipts from all business of furnishing refrigeration to consumers.

(c) An annual payment of twenty-five cents (\$0.25) for each linear foot of pipe (where separately constructed) or conduit constructed within the limits of any street, avenue or highway, excepting, however, such pipes or conduits as are constructed within the vault space or vault spaces of any building or buildings used or occupied exclusively by the Company for the purpose of its business.

An annual payment of two dollars (\$2) for each manhole constructed within the limits of any street, avenue or highway.

The annual charges shall commence from January 1, 1914.

All annual charges as above shall be paid into the Treasury of the City on February 1 of each year and shall be for the amount due to December 31 next preceding. Provided that the first annual payment shall be only for that proportion of the first annual charge as the time between the date upon which this contract is signed by the Mayor and December 31 following shall bear to the whole of one year.

Whenever the percentage required to be paid shall exceed the minimum amount as above, then such sum over and above such minimum shall be paid on or before February 1 in each year for the year ending December 31 next preceding.

(d) Before any rights hereby conferred are exercised by the Company and within one (1) month from the date on which this contract is signed by the Mayor, the Company shall pay to the City the sum of five hundred dollars (\$500); said amount being due the City by reason of the unauthorized occupation of the streets by the Company or its predecessors.

Any and all payments to be made by the terms of this contract to the City by the Company shall not be considered in any manner in the nature of a tax, but such payments shall be made in addition to any and all taxes of whatsoever kind or description, now or hereafter required to be paid by any ordinance of the City, or resolution of the Board, or any law of the State of New York.

Third—The annual charges or payments shall continue throughout the whole term of this contract (whether original or renewal), notwithstanding any clause in any statute or in the charter of any other company providing for payments for refrigerating rights or franchises at a different rate, and no assignment, lease or sub-lease of the rights or privileges hereby granted (whether original or renewal), or of any part thereof, or of any of the streets and avenues mentioned herein, or of any part thereof, shall be valid or effectual for any purpose unless the said assignment, lease or sub-lease shall contain a covenant on the part of the assignee or lessee that the same is subject to all conditions of this contract, and that the assignee or lessee assumes and will be bound by all of said conditions, and especially said conditions as to payments, anything in any statute or in the charter of such assignee or lessee to the contrary notwithstanding, and that the said assignee or lessee waives any more favorable conditions created by such statute or its charter, and that it will not claim by reason thereof or otherwise exemption from liability to perform each and all of the conditions of this contract.

Fourth—Nothing in this contract shall be deemed to affect in any way the right of the City to grant to any individual, firm or other corporation a similar right or privilege upon the same or other terms and conditions, over the same streets and avenues, or within the districts hereinbefore described.

Fifth—The rights and privileges hereby granted shall not be assigned, either in whole or in part, or leased or sublet in any manner, nor shall the title thereto, or right, interest or property therein, pass to or vest in any other person or corporation whatsoever, either by the act of the Company or by operation of law, whether under the provisions of the statutes relating to the consolidation or merger of corporations or otherwise, without the consent of the City, acting by the Board, evidenced by an instrument under seal, anything herein contained to the contrary thereof in any wise notwithstanding, and the granting, giving or waiving of any one or more of such consents shall not render unnecessary any subsequent consent or consents.

Sixth—Upon the termination of this original contract, or if the same be renewed, then at the termination of the said renewal term, or upon the termination of the rights hereby granted for any cause, or upon the dissolution of the Company before such termination, the pipes, conduits and appurtenances of the Company constructed pursuant to this contract within the streets and avenues shall become the property of the City without cost, and the same may be used or disposed of by the City for any purpose whatsoever, or the same may be leased to any company or individual.

If, however, at the termination of this contract as above, the Board shall so order by resolution, the Company shall, upon thirty (30) days' notice from the Board, remove any and all of its pipes, conduits and appurtenances constructed pursuant to this contract and the said streets and avenues shall be restored to their

original condition at the sole cost and expense of the Company.

Seventh—The grant of this privilege is subject to whatever right, title or interest the owners of abutting property or others may have in and to the streets and avenues in which the Company is hereby authorized to operate.

Eighth—All construction which shall be made under this grant shall be done in a manner solely upon the terms and conditions hereafter to be imposed by the President of the Borough of Manhattan and the Commissioner of Water Supply, Gas and Electricity, or their respective successors in authority. The said Company shall submit a working plan of construction to the said President and to the said Commissioner, which shall include and show, in detail, the method of construction of said pipes or conduits, connections, manholes and other appurtenances, and the mode of protection of all subsurface construction under the streets and avenues in which the Company is hereby authorized to operate.

Ninth—Any alteration to the sewerage or drainage system, or to any other subsurface or to any surface structures in the streets, required on account of the construction or operation of the pipes or conduits of the Company, shall be made at the sole cost of the Company, and in such manner as the proper City officials may prescribe.

Tenth—It is agreed that the right hereby granted shall not be in preference or in hindrance to public works of the City, and should the said pipes or conduits in any way interfere with the construction of public works in the streets and avenues, whether the same is done by the City directly or by a contractor for the City, the Company shall, at its own expense, protect or move the pipes, conduits and appurtenances in the manner directed by the City officials having jurisdiction over such public work.

Eleventh—The Company shall bear the expense of keeping in repair for one year after it has been replaced, all pavement, which may at any time be removed by said Company, either for the purpose of construction or for the repairing of the pipes or conduits and the appurtenances thereof.

Twelfth—The Company shall bear the expense of inspection which may be required by the President of the Borough of Manhattan and the Commissioner of Water Supply, Gas and Electricity, and of all work of construction.

Thirteenth—The Company shall cause a test to be made of the pipes hereby authorized whether laid within conduits or separately whenever required by and under the supervision of the Commissioner of Water Supply, Gas and Electricity. The conditions of such test shall be as follows:

(a) If the test be made in the foundry where the pipes are manufactured, such pipes shall be subjected to a pressure of three hundred (300) pounds per square inch.

(b) If the test be made in the field, of pipes in use or ready for use, such pipes shall be subjected to a pressure of two hundred (200) pounds per square inch.

A certificate showing that such a test has been made without injury to the pipes shall be executed by an officer of the Company, and indorsed by the Commissioner of Water Supply, Gas and Electricity, and filed with the Board.

Fourteenth—The Company shall not charge consumers more than the following rates:

(a) Consumers making monthly contracts:

Four (4) cents per month per cubic foot for boxes of not over 500 cubic feet.

Two (2) cents per month per cubic foot for boxes of over 500 cubic feet, but less than 1,500 cubic feet.

One (1) cent per month per cubic foot for boxes of 1,500 cubic feet and over.

(b) Consumers making yearly contracts:

Fifteen (15) cents per year per cubic foot of box.

These rates shall not apply to boxes located above the first floor of any building, nor to boxes located within the Washington Market. Should District No. 1 be extended to include Washington Market, the Company shall furnish refrigeration to consumers located within the market at reasonable rates to be fixed by the Board.

During the term of this contract the Board shall have absolute power to regulate the maximum rates, provided that such rates shall be reasonable and fair.

Fifteenth—The Company, upon the application for refrigeration of any person, firm or corporation whose premises are located within District No. 1, or if such district be extended, as hereinbefore provided, then within such extended district shall extend its pipes or conduits to such premises and furnish to said applicant refrigeration at the rates herein prescribed, or at such rates as may be hereafter fixed by the Board, as herein provided. The Company shall not be required, however, to furnish refrigeration to applicants whose premises are located above the first floor of any building.

Sixteenth—A correct map shall be furnished to the Board by the Company on the first day of February, 1915, showing the exact location of all pipes, conduits and manholes constructed, with reference to the street lines, the curb lines and the street surface, together with a statement of the total length of such pipes and conduits. On the same date of each succeeding year, during the term of this contract, a supplementary map shall be furnished the Board, showing all pipes and conduits laid during the preceding year.

Seventeenth—The pipes and conduits hereby authorized shall be used only by the Loomis Cold Storage Company and for no other purpose than supplying refrigeration.

Eighteenth—The Company shall submit a report to the Board not later than February 1 in each year, for the year ending December 31 next preceding, and at any other time, upon request of the Board, which shall state:

1. The amount of stock issued; for cash; for property.

2. The amount paid in, as by last report.

3. The total amount of capital stock paid in.

4. The funded debt, by last report.

5. The total amount of funded debt.

6. The floating debt, as by last report.

7. The total amount of floating debt.

8. The total amount of funded and floating debt.

9. The average rate per annum of interest on funded debt.

10. Statement of dividends paid during the year.

11. Number of feet of pipe and conduit now laid.

12. The total amount expended for same.

13. Amount, kind and capacity of machinery now in use and required for operation.

14. The total amount expended for same.

15. Quantity of refrigeration produced during the year and the average price received for same.

16. Quantity used in Company's own warehouses.

17. Quantity furnished to outside consumers.

18. Number and location of warehouses occupied by the Company, exclusively or in part, and the extent of such occupation by the Company.

19. Number of outside consumers supplied.

20. Amounts paid by Company for damages to persons or property on account of construction and operation.

21. Total expenses of operation, including salaries.

—and such other information in regard to the business of the Company as may be required by the Board.

Nineteenth—The Company shall at all times keep accurate books of account of the gross earnings from the privileges granted under this contract, and on or before February 1 in each year shall make a verified report to the Comptroller of The City of New York of the business done by the Company for the year ending December 31 next preceding, as he may prescribe. Such report shall contain the number of feet of pipe and conduit laid and the number of manholes constructed during the year, and also a statement of the gross receipts from all business of furnishing refrigeration to consumers, together with other information and in such detail as the Comptroller may require. The Comptroller shall have access to all books of the Company for the purpose of ascertaining the correctness of its report and may examine its officers under oath.

Twenty-sixth—If at any time the powers of the Board or any other of the authorities herein mentioned or intended to be mentioned shall be transferred by law to any other Board, authority, officer or officers, then and in such case such other Board, authority, officer or officers shall have all the powers, rights and duties herein reserved to or prescribed for the Board or other authorities, officer or officers.

Sec. 3. The Company promises, covenants and agrees on its part and behalf to conform to and abide by and perform all the terms, conditions and requirements in this contract fixed and contained.

In witness whereof, the party of the first part

by its Mayor, thereunto duly authorized by the Board of Estimate and Apportionment of said City, has caused the corporate name of said City to be hereunto signed and the corporate seal of said City to be hereunto affixed; and the party of the second part, by its officers, thereunto duly authorized, has caused its corporate name to be hereunto signed and its corporate seal to be hereunto affixed, the day and year first above written.

THE CITY OF NEW YORK,

By

Mayor.

[CORPORATE SEAL.]

Attest:

City Clerk,

LOOMIS COLD STORAGE COMPANY,

By

President.

[SEAL.]

Attest:

Secretary.

[Here add acknowledgments.]

Resolved. That the results of the inquiry made by this Board as to the money value of the franchise or right proposed to be granted and the adequacy of the compensation proposed to be paid therefor, and of the terms and conditions, including the provision as to rates and charges, are as hereinbefore specified and fully set forth in and by the foregoing form of proposed contract for the grant of such franchise or right.

Resolved. That these preambles and resolutions, including the said resolution for the grant of a franchise or right, applied for by the Loomis Cold Storage Company and the said form of a proposed contract for the grant of such franchise or right, containing said results of such inquiry, after the same shall be entered in the minutes of this Board, shall be published for at least twenty (20) days immediately prior to Friday, March 6, 1914, in the City Record, and at least twice during the ten (10) days immediately prior to Friday, March 6, 1914, in two (2) daily newspapers to be designated by the Mayor therefor and published in The City of New York, at the expense of the Loomis Cold Storage Company, together with the following notice:

Notice is hereby given that the Board of Estimate and Apportionment, before authorizing any contract for the grant of a franchise or right applied for by the Loomis Cold Storage Company and fully set forth and described in the foregoing form of proposed contract for the grant of such franchise or right, and before adopting any resolution authorizing any such contract, will, at a meeting of said Board to be held in Room 16, City Hall, Borough of Manhattan, City of New York, on Friday, March 6, 1914, at 10.30 o'clock a. m., hold a public hearing thereon, at which citizens shall be entitled to appear and be heard.

JOSEPH HAAG, Secretary.

Dated New York, January 23, 1914. 19.26

PUBLIC NOTICE IS HEREBY GIVEN THAT THE

the public hearing on the form of contract modifying contract dated July 10, 1912, granting a franchise to the Manhattan Bridge Three Cent Line by substituting a route on Fulton street, Ashland place and Lafayette avenue, Borough of Brooklyn, for a portion of its existing route, which was by resolution duly adopted November 20, 1913, fixed for December 24, 1913, and on that date continued until January 9, 1914, when it was continued until January 23, 1914, and on that date continued until February 6, 1914, was continued until the meeting of February 20, 1914, at 10.30 o'clock a. m., in Room 16, City Hall, Borough of Manhattan, at which time and place all citizens interested will have an opportunity to appear and be heard.

JOSEPH HAAG, Secretary.

Dated New York, February 6, 1914. 19.20

Notices of Public Hearings.

PUBLIC IMPROVEMENT MATTERS.

NOTICE IS HEREBY GIVEN THAT THE

Board of Estimate and Apportionment of The City of New York, deeming it for the public interest so to do, proposes to change the map or plan of The City of New York so as to change the lines and grades of Riverside drive between a point about 500 feet south of the south line of West 181st street as heretofore laid out and a point about 775 feet north of the north line of West 181st street; change the lines and grades of the service street between the south line of West 181st street as heretofore laid out and a point about 500 feet south thereof; establish the lines and grades of the service street between the south line of West 181st street as heretofore laid out and a point about 475 feet north of the north line of West 181st street; change the lines and grades of West 181st street between Haven avenue and Riverside drive; change the grades of West 181st street between Northern avenue and Haven avenue; change the grades of Haven avenue between West 180th street and West 181st street; change the grades of Northern avenue at and immediately adjoining its intersection with West 181st street; and change the grades of West 180th street at its junction with Haven avenue, Borough of Manhattan, and that a meeting of said Board will be held in the Old Council Chamber, City Hall, Borough of Manhattan, City of New York, on February 27, 1914, at 10.30 o'clock a. m., at which such proposed change will be considered by said Board; all of which is more particularly set forth and described in the following resolutions adopted by

TUESDAY, FEBRUARY 17, 1914.

avenue and along the prolongation of the said line to the point or place of beginning.

Dated January 31, 1914.

JOSEPH HAAG, Secretary, 277 Broadway, 19,20

NOTICE IS HEREBY GIVEN THAT AT
the meeting of the Board of Estimate and Apportionment held on February 6, 1914, the hearing in the foregoing matter was postponed until February 20, 1914.

JOSEPH HAAG, Secretary.

New York, February 7, 1914.

NOTICE IS HEREBY GIVEN THAT AT
the meeting of the Board of Estimate and Apportionment held on January 30, 1914, the hearing on the proposed area of assessment in the matter of amending the proceeding for acquiring title to Caspian street, from Andrews street to Metropolitan avenue; Zeidler street, from Andrews street to Metropolitan avenue; and King place, from Caspian street to Metropolitan avenue, Borough of Queens.

The hearing will be held in Room 16, City Hall, Borough of Manhattan, City of New York, on Friday, February 13, 1914, at 10:30 o'clock a. m.

The following is the proposed area of assessment in the proceeding:

Beginning at a point on the southerly right of way line of the Bushwick Branch of the Long Island Railroad where it is intersected by the prolongation of a line distant 100 feet easterly from and parallel with the easterly line of Caspian street as this street is laid out where it adjoins Metropolitan avenue, the said distance being measured at right angles to Caspian street, and running thence southwardly along the said line parallel with Caspian street and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Metropolitan avenue; thence westwardly and parallel with Metropolitan avenue a distance of 250 feet; thence northwardly at right angles to Metropolitan avenue to a point distant 100 feet southerly from the southerly line of Caspian street, the said distance being measured at right angles to Caspian street; thence westwardly along a line always distant 100 feet southerly from and parallel with the southerly line of Caspian street to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the easterly line of King place and the westerly line of Collins avenue; thence southwardly along the said bisecting line to the intersection with the centre line of Metropolitan avenue; thence westwardly along the centre line of Metropolitan avenue to the intersection with the prolongation of a line midway between Himrod street and Harmon street; thence southwardly along the said line midway between Himrod street and Harmon street and along the prolongation of the said line to the intersection with a line distant 100 feet southerly from and parallel with the southerly line of Metropolitan avenue, the said distance being measured at right angles to Metropolitan avenue; thence westwardly along the said line parallel with Metropolitan avenue to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the easterly line of Andrews street and the westerly line of Zeidler street as these streets are laid out where they adjoin Metropolitan avenue; thence northwardly along the said bisecting line to the intersection with the prolongation of a line midway between Zeidler street and Martin street; thence northwardly along the said prolongation of a line midway between Zeidler street and Martin street to a point distant 100 feet westerly from the westerly line of Andrews street, the said distance being measured at right angles to Andrews street; thence generally northwardly and always distant 100 feet westerly from and parallel with the westerly line of Andrews street and the prolongations thereof to the intersection with a line midway between Arctic street and Caspian street as these streets are laid out between Arnold street and Andrews street; thence southwardly along the said line midway between Caspian street and Arctic street and along the prolongation of the said line to the intersection with the prolongation of a line midway between Caspian street and Arctic street as these streets adjoin Collins avenue; thence eastwardly along the said line midway between Caspian street and Arctic street and along the prolongations of the said line to the intersection with the southerly right of way line of the Bushwick Branch of the Long Island Railroad; thence eastwardly along the said right of way line to the point or place of beginning.

Dated January 31, 1914.

JOSEPH HAAG, Secretary, 277 Broadway, 19,20

NOTICE IS HEREBY GIVEN THAT AT
the meeting of the Board of Estimate and Apportionment held on February 6, 1914, the hearing in the foregoing matter was postponed until February 20, 1914.

JOSEPH HAAG, Secretary.

New York, February 7, 1914.

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JOSEPH HAAG, Secretary.

New York, February 7, 1914.

City of New York, on the 13th day of February, 1914, at 10:30 o'clock, a. m.

Resolved, That the Secretary of this Board will be considered at a meeting of the Board, to be held at the aforesaid time and place, to be published in the City Record and the morning newspapers for ten days continuously, Sundays and legal holidays excepted, prior to the 13th day of February, 1914.

Dated January 30, 1914.

JOSEPH HAAG, Secretary, 277 Broadway, 19,20

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JOSEPH HAAG, Secretary.

New York, February 7, 1914.

<b

estimates upon the blank form prepared by the Department, a copy of which, with the proper envelope in which to enclose the bid, together with a copy of the contract including the specifications, in the form approved by the Corporation Counsel, can be obtained upon application therefor at the office of the Department, Room 1903, 13 to 21 Park row, Borough of Manhattan, where any further information desired may be obtained.

WILLIAM WILLIAMS, Commissioner.
Dated February 13, 1914. f16,27

¹²See General Instructions to Bidders on last page, last column, of the "City Record."

BOROUGH OF QUEENS.

Proposals.

OFFICE OF THE PRESIDENT OF THE BOROUGH OF QUEENS, THIRD FLOOR OF THE BOROUGH HALL, 5TH ST. AND JACKSON AVE., LONG ISLAND CITY, BOROUGH OF QUEENS, CITY OF NEW YORK. SEALED BIDS OR ESTIMATES WILL BE received by the President of the Borough of Queens at the above office until 11 o'clock a. m., on

WEDNESDAY, FEBRUARY 25, 1914.
No. 1. FOR FURNISHING AND DELIVERING 300,000 GALLONS OF LIGHT ROAD OIL OR REFINED TAR OIL IN TANK CARS, AS DIRECTED, IN THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be on or before October 1, 1914.

The amount of the security for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

No. 2. FOR FURNISHING AND DELIVERING TO THE BUREAU OF HIGHWAYS 20,000 CUBIC YARDS OF BROKEN STONE AND SCREENINGS OF TRAP ROCK AND DOLOMITE IN THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be on or before August 1, 1914.

The amount of the security for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

No. 3. FOR FURNISHING AND DELIVERING BITUMINOUS MATERIAL (TAR OR ASPHALTIC OIL) FOR RESURFACING ROADS IN THE BOROUGH OF QUEENS, AS FOLLOWS: 150,000 GALLONS SPREAD UPON THE ROAD.

The time allowed for doing and completing the above work will be on or before July 1, 1914.

The amount of the security for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

No. 4. FOR FURNISHING AND DELIVERING 50,000 CUBIC YARDS OF GRAVEL OR CHIP STONE AT VARIOUS POINTS AS DIRECTED IN THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be on or before June 20, 1914.

The amount of the security for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

No. 5. FOR REGULATING, GRADING, CURBING AND LAYING SIDEWALKS AND CROSSWALKS, TOGETHER WITH ALL WORK INCIDENTAL THERETO, IN PACKARD (GROVE) ST. FROM MIDDLEBURG AVE. TO BORDEN AVE., 1ST AND 2D WARDS.

The time allowed for doing and completing the above work is one hundred and fifty (150) working days.

The amount of security required will be SevenTeen Thousand Dollars (\$17,000).

The Engineer's estimate of the quantities is as follows:

14,000 cubic yards of earth excavation.
300 cubic yards of rock excavation.
43,000 cubic yards of embankment (in excess of excavation).

6,150 linear feet new bluestone curb.
4,950 linear feet cement curb with steel nosing, and one (1) year's maintenance.

29,500 square feet new flagstone sidewalk.
23,200 square feet cement sidewalk, and one (1) year's maintenance.

2,250 square feet new crosswalks.
10 cubic yards concrete.

No. 6. FOR FURNISHING AND DELIVERING BITUMINOUS ROAD SURFACING MATERIAL (TAR OR ASPHALT) IN THE BOROUGH OF QUEENS, AS FOLLOWS: 20,000 GALLONS DELIVERED IN BARRELS, 100-000 GALLONS SPREAD UPON THE ROAD.

The time allowed for doing and completing the above work will be on or before August 1, 1914.

The amount of security for the performance of the contract shall be thirty (30) per cent. of the total amount for which the contract is awarded.

No. 7. FOR FENCING THE VACANT LOTS AND ALL WORK INCIDENTAL THERETO, ON THE NORTHERLY CORNER OF FAIRVIEW AVE. AND BLEECKER ST. AND ON THE WESTERLY CORNER OF HIMROD ST. AND SENECA AVE., 2D WARD OF THE BOROUGH OF QUEENS, IN ACCORDANCE WITH SECTION 435 OF THE GREATER NEW YORK CHARTER.

The time allowed for doing and completing the above work will be ten (10) working days.

The amount of security required will be One Hundred Dollars (\$100).

The Engineer's estimate of the quantities is as follows:

245 linear feet 6-foot board fence erected.
No. 8. FOR REGULATING, CURBING AND LAYING SIDEWALKS (WHERE NOT ALREADY LAID TO GRADE AND IN GOOD CONDITION), TOGETHER WITH ALL WORK INCIDENTAL THERETO, IN HAMMAN ST., FROM GRANDVIEW AVE. TO FOREST AVE., 2D WARD, OF THE BOROUGH OF QUEENS.

The time allowed for doing and completing the above work will be thirty working days.

The amount of security required will be One Thousand Four Hundred Dollars (\$1,400).

The Engineer's estimate of the quantities is as follows:

20 linear feet old curb, redressed and reset.
20 linear feet old concrete curb reset.
2,400 linear feet of cement curb with steel nosing, and one year's maintenance.

11,500 square feet cement sidewalk, and one year's maintenance, including all grading.

The bidder must state the price of each item or article contained in the specifications or schedule herein contained or hereafter annexed, per square yard, linear foot or other unit of measure, by which the bids will be tested. The extensions must be made and footed up, as the bids will be read from a total. Bids will be compared and the contract awarded at a lump or aggregate sum. Blank forms may be obtained and the plans or drawings may be seen at the office of the President of the Borough of Queens.

Dated Long Island City, N. Y., February 11, 1914.

MAURICE E. CONNOLY, President.
¹²See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF FINANCE.

Confirmation of Assessments.

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS to the following named avenue in the BOROUGH OF BROOKLYN:

THIRTIETH WARD, SECTION 18.

OVINGTON AVENUE—PAVING, between Stewart and 7th aves. Area of assessment: Both sides of Ovington ave., from Stewart to 7th aves., and to the extent of half the block at the intersecting avenues.

EIGHTY-FIFTH STREET—PAVING, between 3d and 4th aves. Area of assessment: Both sides of 85th st., from 3d to 4th aves., and to the extent of half the block at the intersecting avenues.

SEVENTY-FOURTH STREET—PAVING, from 10th to 11th aves. Area of assessment: Both sides of 74th st., from 10th to 11th aves., and to the extent of half the block at the intersecting avenues.

THIRTIETH WARD, SECTION 19.

EIGHTY-SIXTH STREET—PAVING, between 13th and 16th aves. Area of assessment: Both sides of 86th st., from 13th to 16th aves., and to the extent of half the block at the intersecting and terminating streets and avenues.

THIRTEENTH AVENUE—PAVING, from 73d to 75th sts.

Area of assessment: Both sides of 13th ave., from 73d to 75th sts., and to the extent of half the block at the intersecting streets.

SEVENTY-THIRD STREET—PAVING, from a point about 176 feet east of 17th ave., to 18th ave. Area of assessment: Both sides of 73d st., from a point 175 feet east of 17th ave., to 18th ave., and to the extent of half the block at the latter avenue.

THIRTY-FIRST WARD, SECTION 20.

AVENUE I—PAVING, between Coney Island ave. and E. 15th st. Area of assessment: Both sides of Avenue I, from Coney Island ave. to E. 15th st., and to the extent of half the block at the intersecting streets.

EAST THIRTEENTH STREET—PAVING, from Avenue J to Avenue K. Area of assessment: Both sides of E. 13th st., from Avenue J to Avenue K.

AVENUE N—PAVING, from Coney Island avenue to a point about 139 feet east of E. 15th st. Area of assessment: Both sides of Avenue N, from Coney Island ave. to E. 15th st., and to the extent of half the block at the intersecting and terminating streets and avenues.

THIRTY-FIRST WARD, SECTION 21.

WEST SEVENTEENTH STREET—PAVING, between Neptune ave. and Coney Island Avenue. Area of assessment: Both sides of W. 17th st., from Neptune ave. to Canal ave., and to the extent of half the block at the intersecting avenues.

THIRTY-SECOND WARD, SECTION 23.

AVENUE L—PAVING, between E. 34th st. and Flatbush ave. Area of assessment: Both sides of Avenue L, from E. 34th st. to Flatbush ave., and to the extent of half the block at the intersecting streets and avenues.

AVENUE I—PAVING, from Flatbush ave. to E. 34th st., and from E. 35th st. to Brooklyn ave.

Area of assessment: Both sides of Avenue I, from Flatbush ave. to E. 34th st., and from E. 35th st. to Brooklyn ave., and to the extent of half the block at the intersecting streets and avenues.

THIRTY-FIRST WARD, SECTION 20.

—that the same were confirmed by the Board of Assessors on February 3, 1914, and entered on February 3, 1914, in the Record of Titles of Assessments kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessments became liens to the date of payment."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Mechanics Bank Building, Court and Montague sts., Borough of Brooklyn, between the hours of 9 a. m. and 2 p. m., and on Saturday from 9 a. m. to 12 m., and all payments made thereon on or before April 1, 1914, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessments became liens to the date of payment."

THIRTY-FIRST WARD, SECTION 20.

SIXTY-THIRD STREET—OPENING, from New Utrecht ave. to 18th ave., and from 23d ave. to West st., excluding the right of way of the New York and Sea Beach Railroad. Confirmed December 24, 1913; entered February 4, 1914. Area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

1. Bounded on the north by a line distant 100 feet northerly from and parallel with the northerly line of Glenmore ave., the said distance being measured at right angles to Glenmore ave.; on the east by a line midway between Jerome st. and Warwick st.; on the south by a line distant 100 feet southerly from and parallel with the southerly line of Pitkin ave., the said distance being measured at right angles to Pitkin ave.; and on the west by a line midway between Barbe st. and Jerome st.

2. Beginning at a point on the prolongation of a line midway between Schenck ave. and Jerome st. as these streets are laid out south of New Lots ave., distant 100 feet northerly from the northerly line of New Lots ave., and running thence eastwardly and parallel with New Lots ave. to the intersection with the prolongation of a line midway between Jerome st. and Warwick st., as these streets are laid out south of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Schenck ave. and Barbe st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet southerly from the southerly line of Vandalia ave.; thence westwardly and parallel with Vandalia ave. to the intersection with the prolongation of a line midway between Schenck ave. and Barbe st.; thence northwardly along the said line midway between Jerome st. and Warwick st., and along the prolongations of the said line to a point distant 100 feet northerly from the northerly line of New Lots ave.; thence southwardly along the said line midway between Jerome st. and Warwick st., and along the

TUESDAY, FEBRUARY 17, 1914.

Both sides of College ave., from E. 167th to E. 168th sts.
TWENTY-FOURTH WARD, SECTIONS 14 AND 15.

TAYLOR AVENUE—SEWER, between Wood ave. and Westchester ave., and in BEACH AVENUE, between Wood ave. and Randolph ave. Area of assessment affects property facing said improvement, and also that embraced in Blocks Nos. 3765, 3876, 3877, 3881 and 3882.

TWENTY-FOURTH WARD, SECTION 15.

McGRAW AVENUE—SEWER, between Theriot ave. and Taylor ave. Area of assessment: Both sides of McGraw ave., from Theriot ave. to Taylor ave.

—that the same were confirmed by the Board of Assessors on February 3, 1914, and entered on February 3, 1914, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of said entry of the assessments, interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents in the Bergen Building, Arthur and Tremont aves., Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before April 1, 1914, will be exempt from interest, as above provided, and after that date will be subject to a charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessments became a lien, as provided by section 1006 of the Greater New York Charter.

WILLIAM A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, February 3, 1914. f10.21

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF QUEENS:

FIRST WARD.

ELEVENTH AVENUE—PAVING AND FLAGGING, from Broadway to Graham ave. Area of assessment: Both sides of 11th ave., from Broadway to Graham ave., and to the extent of half the block at the intersecting streets.

HANCOCK STREET—REGULATING, GRADING, CURGING AND FLAGGING, from Webster to Vernon ave. Area of assessment: Both sides of Hancock st., from Webster to Vernon ave., and to the extent of half the block at the intersecting avenues.

BOULEVARD—REGULATING, GRADING AND EXTENDING DRAINS, from Washington ave. to Broadway. Area of assessment: Both sides of the Boulevard, from Washington ave. to Broadway, and to the extent of half the block at the intersecting streets and avenues.

SUNSWICK STREET—SEWER, between Wilbur ave. and Paynter ave. Area of assessment: Both sides of Sunswick st., from Wilbur ave. to Paynter st.

THIRTEENTH STREET—SEWER, from the Boulevard to Van Alst ave. Area of assessment: Both sides of 13th st., from the Boulevard to Van Alst ave.

VAN ALST AVENUE—SEWER, from Paynter ave. to Beebe ave. Area of assessment: Both sides of Van Alst ave., from Paynter ave. to Beebe ave.

SECOND WARD.

CLINTON AVENUE—REGULATING, GRADING, CURBING AND FLAGGING, from Clermont ave. to Willow ave. Area of assessment: Both sides of Clinton ave., from Clermont ave. to Willow ave., and to the extent of half the block at the intersecting avenues.

THIRD WARD.

Laying sidewalks on NINTH STREET, north side, between 8th and 9th aves.; SIXTEENTH STREET, north side, between 7th and 8th aves.; EIGHTH AVENUE, west side, between 16th st. and Long Island Railroad Bridge; NINETEEN STREET, south side, between 7th and 8th aves.; NINETEENTH STREET, south side, between 11th and Bayside aves.; PARSONS AVENUE, west side, between Queens ave. and Quince st.; in PARSONS AVENUE, from Sandford ave. to Cypress st. Area of assessment affects property described as Lots Nos. 8, 9, 11 and 23, in Block 92; Lot 30, Block 145; south side of 9th st., between 7th and 8th aves.; south side of 19th st., between Bayside and 11th aves.; west side of Parsons ave., from Queens ave. to Sinclair ave.; Poplar st. to Quince st., Franklin place to Ash st., and from Beech st. to Cypress ave.

FOURTH WARD.

FLAGGING south side of JAMAICA AVENUE, between Napier place and Wyckoff ave., and north side, beginning at a point 50 feet east of Lott ave. and running 250 feet easterly. Area of assessment: south side of Jamaica ave., from Wyckoff ave. to Napier place, and north side extending from Lott ave. to a point about 300 feet easterly.

—that the same were confirmed by Board of Assessors on February 3, 1914, and entered on February 3, 1914, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of entry of the assessments interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, in the Municipal Building, Court House Square, Long Island City, Borough of Queens, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments

made thereon on or before April 4, 1914, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when such assessments became liens to the date of payment.

WM. A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, February 3, 1914. f10.21

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears, of the assessment for OPENING AND ACQUIRING TITLE to the following named streets and avenues in the BOROUGH OF BROOKLYN:

BOERUM STREET—OPENING, from White st. to Bogart st. Confirmed December 31, 1913; entered January 31, 1914. Area of assessment includes all those lands, tenements and hereditaments and premises situate in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Bound on the north by a line distant 100 feet northerly from and parallel with the northerly line of Boerum st. as this street is laid out between White st. and Bogart st., the said distance being measured at right angles to Boerum st., and by the prolongations of the said line; on the east by a line always distant 100 feet easterly from and parallel with the easterly line of Bogart st., the said distance being measured at right angles to Bogart st.; on the south by a line midway between Boerum st. and McKibben st., as these streets are laid out between White st. and Bogart st., and by the prolongations of the said line, and on the west by a line distant 100 feet westerly from and parallel with the westerly line of White st., the said distance being measured at right angles to White st.

—that the above entitled assessment was entered on date hereinafore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of entry of the assessment, interest will be collected thereon, as provided by section 1006 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents in the Bergen Building, Arthur and Tremont aves., Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments made thereon on or before April 1, 1914, will be exempt from interest as above provided, and after that date will be subject to a charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessments became a lien, as provided by section 1006 of the Greater New York Charter.

WILLIAM A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, February 3, 1914. f10.21

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF QUEENS:

FIRST WARD.

ELEVENTH AVENUE—PAVING AND FLAGGING, from Broadway to Graham ave. Area of assessment: Both sides of 11th ave., from Broadway to Graham ave., and to the extent of half the block at the intersecting streets.

HANCOCK STREET—REGULATING, GRADING, CURGING AND FLAGGING, from Webster to Vernon ave. Area of assessment: Both sides of Hancock st., from Webster to Vernon ave., and to the extent of half the block at the intersecting avenues.

BOULEVARD—REGULATING, GRADING AND EXTENDING DRAINS, from Washington ave. to Broadway. Area of assessment: Both sides of the Boulevard, from Washington ave. to Broadway, and to the extent of half the block at the intersecting streets and avenues.

SUNSWICK STREET—SEWER, between Wilbur ave. and Paynter ave. Area of assessment: Both sides of Sunswick st., from Wilbur ave. to Paynter st.

THIRTEENTH STREET—SEWER, from the Boulevard to Van Alst ave. Area of assessment: Both sides of 13th st., from the Boulevard to Van Alst ave.

VAN ALST AVENUE—SEWER, from Paynter ave. to Beebe ave. Area of assessment: Both sides of Van Alst ave., from Paynter ave. to Beebe ave.

SECOND WARD.

CLINTON AVENUE—REGULATING, GRADING, CURBING AND FLAGGING, from Clermont ave. to Willow ave. Area of assessment: Both sides of Clinton ave., from Clermont ave. to Willow ave., and to the extent of half the block at the intersecting avenues.

THIRD WARD.

Laying sidewalks on NINTH STREET, north side, between 8th and 9th aves.; SIXTEENTH STREET, north side, between 7th and 8th aves.; EIGHTH AVENUE, west side, between 16th st. and Long Island Railroad Bridge; NINETEEN STREET, south side, between 7th and 8th aves.; NINETEENTH STREET, south side, between 11th and Bayside aves.; PARSONS AVENUE, west side, between Queens ave. and Quince st.; in PARSONS AVENUE, from Sandford ave. to Cypress st. Area of assessment affects property described as Lots Nos. 8, 9, 11 and 23, in Block 92; Lot 30, Block 145; south side of 9th st., between 7th and 8th aves.; south side of 19th st., between Bayside and 11th aves.; west side of Parsons ave., from Queens ave. to Sinclair ave.; Poplar st. to Quince st., Franklin place to Ash st., and from Beech st. to Cypress ave.

FOURTH WARD.

FLAGGING south side of JAMAICA AVENUE, between Napier place and Wyckoff ave., and north side, beginning at a point 50 feet east of Lott ave. and running 250 feet easterly. Area of assessment: south side of Jamaica ave., from Wyckoff ave. to Napier place, and north side extending from Lott ave. to a point about 300 feet easterly.

—that the same were confirmed by Board of Assessors on February 3, 1914, and entered on February 3, 1914, in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of entry of the assessments interest will be collected thereon, as provided by section 1019 of the Greater New York Charter.

Said section provides that "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents in the Municipal Building, Court House Square, Long Island City, Borough of Queens, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments

made thereon on or before April 4, 1914, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when such assessments became liens to the date of payment.

WM. A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, February 3, 1914. f10.21

NOTICE OF ASSESSMENTS FOR OPENING STREETS AND PARKS.

IN PURSUANCE OF SECTION 1005 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice of the confirmation by the Supreme Court and the entering in the Bureau for the Collection of Assessments and Arrears, of the assessment for OPENING AND ACQUIRING TITLE to the following named streets and avenues in the BOROUGH OF BROOKLYN:

BOERUM STREET—OPENING, from White st. to Bogart st. Confirmed December 31, 1913; entered January 31, 1914. Area of assessment includes all those lands, tenements and hereditaments and premises situate in the Borough of Brooklyn, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Bound on the north by a line distant 100 feet northerly from and parallel with the northerly line of Boerum st. as this street is laid out between White st. and Bogart st., the said distance being measured at right angles to Boerum st., and by the prolongations of the said line; on the east by a line always distant 100 feet easterly from and parallel with the easterly line of Bogart st., the said distance being measured at right angles to Bogart st.; on the south by a line midway between Boerum st. and McKibben st., as these streets are laid out between White st. and Bogart st., and by the prolongations of the said line, and on the west by a line distant 100 feet westerly from and parallel with the westerly line of White st., the said distance being measured at right angles to White st.

—that the above entitled assessment was entered on date hereinafore given in the Record of Titles of Assessments, kept in the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents, and unless the amount assessed for benefit on any person or property shall be paid within sixty days after the date of entry of the assessment, interest will be collected thereon, as provided by section 1006 of the Greater New York Charter.

Said section provides, in part, "If any such assessment shall remain unpaid for the period of sixty days after the date of entry thereof in the said Record of Titles of Assessments, it shall be the duty of the officer authorized to collect and receive the amount of such assessment, to charge, collect and receive interest thereon at the rate of seven per centum per annum, to be calculated to the date of payment, from the date when such assessment became a lien, as provided by section 159 of this act."

Section 159 of this act provides * * * "An assessment shall become a lien upon the real estate affected thereby ten days after its entry in the said record."

The above assessments are payable to the Collector of Assessments and Arrears at the Bureau for the Collection of Assessments and Arrears of Taxes and Assessments and of Water Rents in the Bergen Building, Arthur and Tremont aves., Borough of The Bronx, between the hours of 9 a. m. and 2 p. m., and on Saturdays from 9 a. m. to 12 m., and all payments

made thereon on or before April 4, 1914, will be exempt from interest, as above provided, and after that date will be subject to a charge of interest at the rate of seven per centum per annum from the date when such assessments became liens to the date of payment.

WILLIAM A. PRENDERGAST, Comptroller. City of New York, Department of Finance, Comptroller's Office, February 3, 1914. f10.21

NOTICE TO PROPERTY OWNERS.

IN PURSUANCE OF SECTION 1018 OF THE Greater New York Charter, the Comptroller of The City of New York hereby gives public notice to all persons, owners of property, affected by the following assessments for LOCAL IMPROVEMENTS IN THE BOROUGH OF QUEENS:

FIRST WARD.

ELEVENTH AVENUE—PAVING AND FLAGGING, from Broadway to Graham ave. Area of assessment: Both sides of 11th ave., from Broadway to Graham ave., and to the extent of half the block at the intersecting streets.

HANCOCK STREET—REGULATING, GRADING, CURGING AND FLAGGING, from Webster to Vernon ave. Area of assessment: Both sides of Hancock st., from Webster to Vernon ave., and to the extent of half the block at the intersecting avenues.

BOULEVARD—REGULATING, GRADING AND EXTENDING DRAINS, from Washington ave. to Broadway. Area of assessment: Both sides of the Boulevard, from Washington ave. to Broadway, and to the extent of half the block at the intersecting streets and avenues.

SUNSWICK STREET—SEWER, between

storm sewer, laid complete, including all incidents and appurtenances, per linear foot, \$1.25.....	4,488 73
4,062 linear feet of 8-inch pipe sanitary sewer, laid complete, including all incidents and appurtenances; per linear foot, \$1.30.....	5,280 60
5,050 linear feet of 6-inch storm house connection drain, laid complete, including all incidents and appurtenances; per linear foot, \$0.60.....	3,030 00
5,200 linear feet of 6-inch sanitary house connection drain, laid complete, including all incidents and appurtenances; per linear foot, \$0.85.	4,420 00
34 manholes on storm sewers, complete, with special iron heads and special covers, including all incidents and appurtenances; per manhole, \$40.	1,360 00
23 manholes on sanitary sewers, complete, with standard iron heads and special covers, including all incidents and appurtenances; per manhole, \$50.....	1,150 00
9 sewer basins, complete, of either standard design, with iron pans or gratings, iron basin hoods and connecting culverts, including all incidents and appurtenances; per basin, \$115.....	1,035 00
70,000 board feet, board measure, of sheeting and bracing, driven in place complete, including all incidents and appurtenances; per thousand feet, board measure, \$18.....	1,260 00

Total \$23,288 60

The time allowed for the completion of the work and full performance of the contract will be one hundred (100) working days.

The amount of security required will be Eleven Thousand Dollars (\$11,000).

The foregoing Engineer's preliminary estimates of the total cost for the completed work are to be taken as the 100 per cent. basis and test for bidding. Proposals shall each state a single percentage of such 100 per cent. (such as 95 per cent., 100 per cent. or 105 per cent.), for which all materials and work called for in the proposed contract and the notices to bidders are to be furnished to the City. Such percentage as bid for this contract shall apply to all unit items specified in the Engineer's preliminary estimate to an amount necessary to complete the work described in the contract.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Sewers, 215 Montague st., Borough of Brooklyn.

Dated February 17, 1914.

See General Instructions to Bidders on last page, last column, of the "City Record."

OFFICE OF THE PRESIDENT OF THE BOROUGH OF BROOKLYN, ROOM NO. 2, BOROUGH HALL, BOROUGH OF BROOKLYN, THE CITY OF NEW YORK.
SEALED BIDS OR ESTIMATES WILL BE received by the President of Borough of Brooklyn at the above office until 11 o'clock a. m., on

THURSDAY, FEBRUARY 19, 1914.

1. FOR FURNISHING AND DELIVERING 5,000 BARRELS PORTLAND CEMENT, TO BE DELIVERED AS FOLLOWS:

2,500 barrels to Corporation Yard, Wallabout Basin, foot of Hewes st.

500 barrels to Corporation Yard, 67th st., near 18th ave.

1,000 barrels to Corporation Yard, Hopkinson ave., near Marion st.

250 barrels to Corporation Yard, DeKalb ave., near Irving ave.

250 barrels to Corporation Yard, North 8th st., near Union ave.

500 barrels to yard adjoining asphalt plant, 7th st. Basin, Gowanus Canal.

2. FOR FURNISHING AND DELIVERING 60,000 SQUARE FEET BLUESTONE FLAGGING, TO BE DELIVERED AS FOLLOWS:

30,000 square feet to Corporation Yard, Wallabout Market, foot of Hewes st.

10,000 square feet to Corporation Yard, Hopkinson ave., near Marion st.

20,000 square feet to Corporation Yard, North 8th st., near Union ave.

3. FOR FURNISHING AND DELIVERING 1,500 CUBIC YARDS PAVING GRAVEL, TO BE DELIVERED AS FOLLOWS:

750 cubic yards to Corporation Yard, Wallabout Market, foot of Hewes st.

250 cubic yards to Corporation Yard, DeKalb ave., near Irving ave.

250 cubic yards to Corporation Yard, North 8th st., near Union ave.

250 cubic yards to yard adjoining asphalt plant, 7th st. Basin, Gowanus Canal.

4. FOR FURNISHING AND DELIVERING 77,914 FEET, BOARD MEASURE, OF LUMBER, TO BE DELIVERED AS FOLLOWS:

38,681 feet to Corporation Yard, 67th st., near 18th ave.

39,233 feet to Corporation Yard, Neck road and Gravesend ave.

5. FOR FURNISHING AND DELIVERING 150,000 GALLONS TAR ROAD OIL, TO BE DELIVERED TO ANY OR ALL RAILROAD STATIONS OR PUBLIC DOCKS IN THE BOROUGH OF BROOKLYN.

The oil shall be delivered by rail or boat, as the Engineer may direct, and the bid shall state price at which oil will be furnished by each method of delivery. For the purpose of comparison of bids and as a basis of awarding the contract it will be assumed that 25,000 gallons of oil will be delivered by boat and 125,000 gallons by rail.

6. FOR FURNISHING AND DELIVERING 2,000 CUBIC YARDS BROKEN TRAP ROCK AND 2,000 CUBIC YARDS TRAP ROCK SCREENINGS, TO BE DELIVERED AS FOLLOWS:

1,000 cubic yards broken trap rock and 1,000 cubic yards trap rock screenings to Corporation Yard, 67th st., near 18th ave.

1,000 cubic yards broken trap rock and 1,000 cubic yards trap rock screenings to Corporation Yard, Neck road and Gravesend ave.

7. FOR FURNISHING AND DELIVERING 2,550 CUBIC YARDS BROKEN TRAP ROCK AND 1,000 CUBIC YARDS TRAP ROCK SCREENINGS, TO BE DELIVERED AS FOLLOWS:

250 cubic yards stone and 100 cubic yards screenings to Jerome ave. (Voorhees lane); E. 22d st. to Sheephead Bay road.

200 cubic yards stone and 80 cubic yards screenings to Neck road, Van Sicklen ave., to Ryder lane.

800 cubic yards stone and 300 cubic yards screenings to Ocean ave., Kings Highway to Emmons ave.

1,000 cubic yards stone and 400 cubic yards screenings to 2d ave., 65th st., to Marine ave.

300 cubic yards stone and 120 cubic yards screenings to W. 21st st., Neptune ave., to Atlantic Ocean.

9. FOR FURNISHING AND DELIVERING 2,150 CUBIC YARDS BROKEN TRAP ROCK AND 910 CUBIC YARDS TRAP ROCK SCREENINGS, TO BE DELIVERED AS FOLLOWS:

1,100 cubic yards stone and 400 cubic yards screenings to Albany ave., East New York ave., to Clarkson ave.

200 cubic yards stone and 100 cubic yards screenings to Canarsie road, Marshalls lane, E. 92d st., from Kings Highway to Canarsie landing.

150 cubic yards stone and 60 cubic yards screenings to E. 4th st., from Avenue F to 18th ave.

350 cubic yards stone and 175 cubic yards screenings to Kings Highway, Blake ave. to Flatbush ave.

100 cubic yards stone and 50 cubic yards screenings to Kings Highway, Flatbush ave. to Ocean ave.

250 cubic yards stone and 125 cubic yards screenings to Kings Highway, Ocean ave. to 22d ave.

9. FOR FURNISHING AND DELIVERING 50,000 ASPHALT PAVING BLOCKS, OF WHICH 10,000 SHALL HAVE A DEPTH OF 2 INCHES AND 40,000 SHALL HAVE A DEPTH OF 3 INCHES, TO BE DELIVERED AS FOLLOWS:

5,000 2-inch and 20,000 3-inch blocks to Corporation Yard, Wallabout Basin, foot of Hewes st.

15,000 3-inch blocks to Corporation Yard, 67th st., near 18th ave.

5,000 2-inch and 5,000 3-inch blocks to Corporation Yard, DeKalb ave., near Irving ave.

10. FOR FURNISHING AND DELIVERING 1,600 TONS LIMESTONE, OR OTHER SUITABLE INORGANIC DUST, TO BE DELIVERED TO ASPHALT PLANT, 7TH ST. BASIN, GOWANUS CANAL.

The time allowed for the completion of the contract in each case is on or before December 31, 1914.

The amount of security required in each instance shall be thirty (30) per cent. of the total amount for which the contract is awarded.

The bidder will state the price of each item or article contained in the specifications or schedules herein contained or hereto annexed, per pound, ton, dozen, gallon, yard, or other unit of measure, by which the bids will be tested. The bids will be compared and the contract awarded at a lump or aggregate sum for each contract.

Delivery will be required to be made at the time and in the manner and in such quantities as may be directed.

Blank forms and further information may be obtained and the plans and drawings may be seen at the office of the Bureau of Highways, the Borough of Brooklyn, No. 12 Municipal Building, Brooklyn.

Dated February 2, 1914.

See General Instructions to Bidders on last page, last column, of the "City Record."

Borough of Manhattan, corner of Park ave. and 59th st.

PATRICK JONES, Superintendent of School Supplies.

Dated February 13, 1914.

See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF EDUCATION, CORNER OF PARK AVE. AND 59TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education, until 3 o'clock p. m., on

TUESDAY, FEBRUARY 24, 1914.

Borough of The Bronx.

No. 2. FOR THE ERECTION OF OUTSIDE IRON STAIRS AT EVANDER CHILDS HIGH SCHOOL, OLIVINNE AVENUE, NORTH OF MAGENTA ST., WILLIAMSBRIDGE BOROUGH OF THE BRONX.

The time allowed to complete the whole work will be one hundred and twenty-five (125) working days, as provided in the contract.

The amount of security required is Eighteen Hundred Dollars (\$1,800).

The deposit accompanying bid shall be five (5) per cent. of the amount of the security.

Borough of Manhattan.

No. 3. FOR INSTALLING ELECTRIC EQUIPMENT IN NEW PUBLIC SCHOOL 115, ON 176TH AND 177TH STS. ABOUT 100 FEET EAST OF ST. NICHOLAS AVE., BOROUGH OF MANHATTAN.

The time allowed to complete the whole work will be one hundred and sixty (160) working days, as provided in the contract.

The amount of security required is Five Thousand Dollars (\$5,000).

The deposit accompanying bid shall be five (5) per cent. of the amount of the security.

On Nos. 2 and 3 the bids will be compared and the contract will be awarded in a lump sum to the lowest bidder on each contract.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Borough of Manhattan.

C. B. J. Snyder, Superintendent of School Buildings.

Dated February 10, 1914.

See General Instructions to Bidders on last page, last column, of the "City Record."

DEPARTMENT OF EDUCATION, CORNER OF PARK AVE. AND 59TH ST., BOROUGH OF MANHATTAN, CITY OF NEW YORK.

SEALED BIDS OR ESTIMATES WILL BE received by the Superintendent of School Buildings at the above office of the Department of Education until 3 o'clock p. m., on

TUESDAY, FEBRUARY 24, 1914.

Borough of Brooklyn.

No. 1. FOR ITEM 1, GENERAL CONSTRUCTION; ALSO ITEM 2, PLUMBING AND DRAINAGE OF NEW PUBLIC SCHOOL 169, ON THE EASTERN SIDE OF 71ST AVE., BETWEEN 43D AND 44TH STS., BOROUGH OF BROOKLYN.

The time allowed to complete the whole work of each item will be two hundred and seventy-five (275) working days, as provided in the contract.

The amount of security required is as follows:

Item 1, One Hundred Thousand Dollars (\$100,000); Item 2, Eight Thousand Dollars (\$8,000).

The deposit accompanying bid on each item shall be five (5) per cent. of the amount of security.

A separate proposal must be submitted for each item, and award will be made thereon.

On No. 1 the bidders must state the price of each item by which the bids will be tested.

Blank forms, plans and specifications may be obtained or seen at the office of the Superintendent at Estimating Room, 9th floor, Hall of the Board of Education, Park ave. and 59th st., Borough of Manhattan, and also at Branch Office, 131 Livingston st., Borough of Brooklyn.

C. B. J. SNYDER, Superintendent of School Buildings.

Dated February 10, 1914.

See General Instructions to Bidders on last page, last column, of the "City Record."

SUPREME COURT — FIRST DEPARTMENT.

Hearings on Qualifications.

FIRST DEPARTMENT.

In the matter of acquiring title by The City of New York to certain lands and premises at and near the southeastern corner of ST. PAULS PLACE and PARK AVENUE and the southwesterly corner of ST. PAULS PLACE and WASHINGTON AVENUE, in the Twenty-third Ward of the Borough of The Bronx, in The City of New York, duly selected as a site for school purposes, according to law.

NOTICE IS HEREBY GIVEN THAT BY AN ORDER of the Supreme Court of the State of New York bearing date the 2d day of February, 1914, and entered and filed in the office of the Clerk of Bronx County on February 3, 1914, Messrs. Cyrus C. Miller, Martin Geisler and Alfred B. Hall were appointed Commissioners of Estimate and Appraisal in the above entitled proceeding.

Notice is further given that, pursuant to the statutes in such case made and provided, the said Cyrus C. Miller, Martin Geisler and Alfred B. Hall will attend at a Special Term of the Supreme Court to be held in and for Bronx County at the County Court House in the Borough of The Bronx, City of New York, on the 19th day of February, 1914, at 10 o'clock in the forenoon of that day, for the purpose of being examined under oath by the Corporation Counsel of The City of New York, or by any other person having an interest in said proceeding, to their qualifications to act as Commissioners of Estimate and Appraisal in said proceeding.

Dated New York, February 6, 1914.

FRANK L. POLK, Corporation Counsel, Hall of Records, Borough of Manhattan, New York City.

Filing Preliminary Abstracts.

FIRST DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title, wherever the same has not been heretofore acquired for the same purpose in fee, to the lands, tenements and hereditaments required for the opening and extending of SUMMIT PLACE, from Heath avenue to Bailey avenue, the said distance being measured at right angles to Bailey avenue; thence northwardly along the said line parallel with Bailey avenue to the intersection with the prolongation of the said line to a point distant 100 feet west

tant 100 feet southwesterly from the southwest line of Onderdonk avenue, the said distance being measured at right angles from Onderdonk avenue and running thence northeasterly along the said line midway between Gates avenue and Palmetto street, and along the prolongation of the said line to the intersection with the prolongation of a line midway between Gates avenue and Palmetto street, as these streets are laid out between Forest avenue and Fresh Pond road; thence eastwardly along the said line midway between Gates avenue and Palmetto street to a point distant 100 feet easterly from and parallel with the easterly line of Fresh Pond road to a point distant 100 feet southerly from the southerly line of Madison street, the said distance being measured at right angles to Fresh Pond road; thence southwardly and always distant 100 feet easterly from and parallel with the easterly line of Fresh Pond road to a point distant 100 feet southerly from the southerly line of Madison street; thence westwardly and parallel with Madison street to the intersection with the easterly line of Forest avenue; thence southwardly in a straight line to a point on the westerly line of Forest avenue, distant 100 feet southerly from the southerly line of Madison street at this street is laid out between Forest avenue and Fairview avenue, the said distance being measured at right angles to Madison street; thence southwardly and always distant 100 feet southerly from and parallel with the southerly line of Madison street to the intersection with a line distant 100 feet southwesterly from and parallel with the southwesterly line of Wyckoff avenue; thence westwardly along the said line parallel with Wyckoff avenue to the intersection with a line midway between Madison street and Woodbine street; thence northeasterly along the said line midway between Madison street and Woodbine street to the intersection with a line at right angles to Wyckoff avenue; thence northwardly along the said line parallel with Wyckoff avenue to the intersection with a line midway between Madison street and Woodbine street; thence westwardly along the said line midway between Madison street and Woodbine street to the intersection with a line at right angles to Wyckoff avenue; thence northwardly along the said line parallel with Wyckoff avenue to the intersection with a line midway between Palmetto street and Woodbine street to the intersection with a line parallel with Onderdonk avenue, and passing through the point of beginning; thence northwardly along the said line parallel with Onderdonk avenue to the point of beginning.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, in the Municipal Building, Court House Square, in the Borough of Queens, in said City, there to remain until the 26th day of February, 1914.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof for the hearing of motions, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 7th day of May, 1914, at the opening of the Court

Dated New York, January 27, 1914.
GEORGE W. POPPLE, Chairman; FRANK E. LOSEE, THEODORE P. WILSNACK, Commissioners of Estimate; GEORGE W. POPPLE, Commissioner of Assessment.
WALTER C. SHEPPARD, Clerk. f2,19

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title wherever the same has not been heretofore acquired for the same purpose, in fee, to the lands, tenements and hereditaments required for the opening and extending of WEIRFIELD STREET, from the line between the Borough of Brooklyn and the Borough of Queens to Wyckoff avenue; HANCOCK STREET, from the line between the Borough of Brooklyn and the Borough of Queens to Myrtle avenue; JEFFERSON AVENUE, from the line between the Borough of Brooklyn and the Borough of Queens to Cypress avenue, and CORNELIA STREET, from the line between the Borough of Brooklyn and the Borough of Queens to Fresh Pond road, excepting in each case the right of way of the Evergreen Branch of the Long Island Railroad, in the Second Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN TO ALL PERSONS interested in the above entitled proceeding, and to the owner or owners, occupant or occupants of all houses and lots and unimproved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That the undersigned, Commissioners of Estimate, have completed their estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing duly verified, with them at their office, in the Municipal Building, Court House Square, Long Island City, in the Borough of Queens, in The City of New York, on or before the 19th day of February, 1914, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 24th day of February, 1914, at the opening of the Court on that day.

Sixth—In case, however, objections are filed to the foregoing abstracts of estimate and assessment, or to either of them, the motion to confirm the reports as to awards and as to assessments shall stand adjourned to the date to be hereafter specified in the notice provided in such cases to be given in relation to filing the final reports, pursuant to sections 981 and 984 of the Greater New York Charter, as amended by chapter 658 of the Laws of 1906.

Dated New York, January 14, 1914.
WILLIAM W. GILLEN, Chairman; JOSEPH W. SAVAGE, LUKE OTTEN, Commissioners of Estimate; WILLIAM W. GILLEN, Commissioner of Assessment.
WALTER C. SHEPPARD, Clerk. f4,21

easterly from and parallel with the southeasterly line of Bowery Bay road, the said distance being measured at right angles to Bowery Bay road; on the southwest by a line midway between Winthrop avenue and Wolcott avenue and by the prolongation of said line, and on the northwest by the southeasterly line of Chauncey street and by the prolongation of the said line.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, in the Municipal Building, Court House Square, in the Borough of Queens, in said City, there to remain until the 26th day of February, 1914.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof for the hearing of motions, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 7th day of May, 1914, at the opening of the Court

Dated New York, January 27, 1914.
GEORGE W. POPPLE, Chairman; FRANK E. LOSEE, THEODORE P. WILSNACK, Commissioners of Estimate; GEORGE W. POPPLE, Commissioner of Assessment.
WALTER C. SHEPPARD, Clerk. f2,19

SECOND DEPARTMENT.

In the matter of the application of The City of New York, relative to acquiring title wherever the same has not been heretofore acquired for the same purpose, in fee, to the lands, tenements and hereditaments required for the opening and extending of WEIRFIELD STREET, from the line between the Borough of Brooklyn and the Borough of Queens to Wyckoff avenue; HANCOCK STREET, from the line between the Borough of Brooklyn and the Borough of Queens to Myrtle avenue; JEFFERSON AVENUE, from the line between the Borough of Brooklyn and the Borough of Queens to Cypress avenue, and CORNELIA STREET, from the line between the Borough of Brooklyn and the Borough of Queens to Fresh Pond road, excepting in each case the right of way of the Evergreen Branch of the Long Island Railroad, in the Second Ward, Borough of Queens, City of New York.

NOTICE IS HEREBY GIVEN TO ALL PERSONS interested in the above entitled proceeding, and to the owner or owners, occupant or occupants of all houses and lots and unimproved and unimproved lands affected thereby, and to all others whom it may concern, to wit:

First—That the undersigned, Commissioners of Estimate, have completed their estimate of damage, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing duly verified, with them at their office, in the Municipal Building, Court House Square, Long Island City, in the Borough of Queens, in The City of New York, on or before the 19th day of February, 1914, and that the said Commissioners will hear parties so objecting, and for that purpose will be in attendance at their said office on the 24th day of February, 1914, at 2 o'clock p. m.

Second—That the undersigned, Commissioner of Assessment, has completed his estimate of benefit, and that all persons interested in this proceeding, or in any of the lands, tenements and hereditaments and premises affected thereby, having any objection thereto, do file their said objections in writing duly verified, with him at his office, in the Municipal Building, Court House Square, Long Island City, in the Borough of Queens, in The City of New York, on or before the 24th day of February, 1914, and that the said Commissioner will hear parties so objecting, and for that purpose will be in attendance at their said office on the 26th day of February, 1914, at 2:30 o'clock p. m.

Third—That the Commissioner of Assessment has assessed any or all such lands, tenements and hereditaments and premises as are within the area of assessment fixed and prescribed as the area of assessment for benefit by the Board of Estimate and Apportionment on the 23d day of March, 1911, and that the said area of assessment includes all those lands, tenements and hereditaments and premises situate and being in the Borough of Queens, in The City of New York, which, taken together, are bounded and described as follows, viz.:

Beginning at a point on the line between the Borough of Brooklyn and the Borough of Queens where it is intersected by a line midway between Putnam avenue and Cornelia street, and running thence northeasterly along the said line midway between Putnam avenue and Cornelia street to a point distant 100 feet westerly from the westerly line of Forest avenue, the said distance being measured at right angles to Forest avenue; thence northwardly and always distant 100 feet westerly from and parallel with the westerly line of Forest avenue to the intersection with the southerly right of way line of the Lutheran Cemetery Branch of the Brooklyn Rapid Transit; thence eastwardly along the said right of way line to a point distant 100 feet easterly from the easterly line of Fresh Pond road, the said distance being measured at right angles to Fresh Pond road; thence southwardly and parallel with Fresh Pond road to the intersection with the prolongation of a line midway between Cornelia street and Hughes street, as these streets are laid out between Anthon avenue and Buchman avenue; thence westwardly along the said line midway between Cornelia street and Hughes street and along the prolongation of the said line to the intersection with the centre line of Anthon avenue to the intersection with the prolongation of a line midway between Cornelia street and Hughes street, as these streets are laid out between Forest avenue and Anthon avenue; thence westwardly along the said line midway between Cornelia street and Hughes street, and along the prolongation of the said line to a point distant 100 feet easterly from the easterly line of Forest avenue, the said distance being measured at right angles to Forest avenue; thence southwardly and parallel with Forest avenue to the intersection with the prolongation of a line midway between Cornelia street and Silver street as these streets are laid out where they adjoin Forest avenue on the west; thence southwardly along the said line midway between Cornelia street and Silver street, and along the prolongation of the said line to the intersection with a line distant 100 feet northeasterly from and parallel with the northeasterly line of Woodward

avenue, the said distance being measured at right angles to Woodward avenue; thence southwardly along the said line, parallel with Woodward avenue to the intersection with a line bisecting the angle formed by the intersection of the prolongations of the centre lines of Cornelia street and Catalpa avenue, as these streets are laid out between Onderdonk avenue and Woodward avenue; thence southwardly along the said line to the intersection with a line at right angles to Myrtle avenue, the said distance being measured at right angles to Myrtle avenue; thence eastwardly along the said line parallel with Myrtle avenue to the intersection with a line at right angles to Myrtle avenue and passing through a point on its southerly side where it is intersected by the prolongation of a line midway between Hancock street and Weirfield street; thence southwardly along the said line at right angles to Myrtle avenue; thence southwardly along the said line midway between Hancock street and Weirfield street and along the prolongation of the said line to the intersection with a line midway between the Borough of Brooklyn and the Borough of Queens; thence northwardly along the said line to the point or place of beginning.

Fourth—That the abstracts of said estimate of damage and of said assessment for benefit, together with the damage and benefit maps, and also all the affidavits, estimates, proofs and other documents used by the Commissioners of Estimate and by the Commissioner of Assessment in making the same, have been deposited in the Bureau of Street Openings in the Law Department of The City of New York, in the Municipal Building, Court House Square, in the Borough of Queens, in said City, there to remain until the 26th day of February, 1914.

Fifth—That, provided there be no objections filed to either of said abstracts, the reports as to awards and as to assessments for benefit herein will be presented for confirmation to the Supreme Court of the State of New York, Second Department, at a Special Term thereof for the hearing of motions, to be held in the County Court House, in the Borough of Brooklyn, in The City of New York, on the 7th day of May, 1914, at the opening of the Court

Dated New York, January 27, 1914.
GEORGE W. POPPLE, Chairman; FRANK E. LOSEE, THEODORE P. WILSNACK, Commissioners of Estimate; GEORGE W. POPPLE, Commissioner of Assessment.
WALTER C. SHEPPARD, Clerk. f2,19

the street, and the opening of the main sewer in street shall be properly closed in compliance with the directions of the Bureau of Sewers in the Borough in which the buildings are situated, and furnish the Department of Finance with a certificate from the Bureau of Sewers that the work has been properly performed.

The permit for all opening in the street to be obtained by and at the expense of the purchaser of the building.

Failure to remove said buildings, appurtenances, or any part thereof, within thirty days from the day of possession will work forfeiture of ownership of such buildings, appurtenances, or portion as shall then be left standing, together with all moneys paid by said purchaser on account thereof at the time of the sale, and the bidder's assent to the above conditions being understood to be implied by the act of bidding, and The City of New York will, without notice to the purchaser, cause the same to be removed, and the cost and expense thereof charged against the security above mentioned.

The work of removal must be carried on in every respect in a thorough and workmanlike manner, and must be completed within thirty days from the day of possession, and the successful bidder will provide and furnish all materials of labor and machinery necessary thereto, and will place proper and sufficient guards and fences and warning signs by day and night for the prevention of accidents, and will indemnify and save harmless The City of New York, its officers, agents and servants, and each of them, against any and all suits and actions, claims and demands of every name and description brought against it, them or any of them, and against and from all damage and costs to which it, they or any of them be put by reason of injury to the person or property of another, resulting from negligence or carelessness in the performance of the work, or in guarding the same, or from any improper or defective materials or machinery, implements or appliances used in the removal of said buildings.

Where party walls are found to exist between buildings purchased by different bidders, the materials of said party walls shall be understood to be equally divided between the separate purchasers.

Party walls and fences, when existing against adjacent property not sold, shall not be taken down. All furring, plaster, chimneys, projecting brick, etc., on the faces of such party walls are to be taken down and removed. The walls shall be made permanently self-supporting, beam-holes, etc., bricked up, and the wall pointed and made to exclude wind and rain and present a clean exterior. The roofs and adjacent buildings shall be properly flashed and painted and made watertight where they have been disturbed by the operations of the Contractor.

The Comptroller of The City of New York reserves the right on the day of sale to withdraw from sale any of the buildings, parts of buildings and machinery included therein, or to reject any and all bids; and it is further

Resolved, That, while the said sale is held under the supervision of the Commissioners of the Sinking Fund, the Comptroller is authorized to cause the sale to be advertised and to direct the sale thereof as financial officer of the City.

PROPOSALS FOR BIDS AND ESTIMATES FOR THE CITY OF NEW YORK.

NOTICE TO CONTRACTORS.

GENERAL INSTRUCTIONS TO BIDDERS.

The person or persons making a bid or estimate for any services, work, materials or supplies for The City of New York, or for any of its departments, bureaus or offices, shall furnish the same in a sealed envelope, indorsed with the title of the supplies, materials, work or services for which the bid or estimate is made, with his or their name or names and the date of presentation to the President or Board or to the head of the Department at his or its office, on or before the date and hour named in the advertisement for the same, at which time and place the estimates received will be publicly opened by the President or Board or head of said Department, and read, and the award of the contract made according to law as soon thereafter as practicable.

Each bid or estimate shall contain the name and place of residence of the person making the same, and names of all persons interested with him therein, and, if no other person be so interested, it shall distinctly state that fact; also, that it is made without any connection with any other person making an estimate for the same purpose, and is in all respects fair and without collusion or fraud, and that no member of the Board of Aldermen, head of a Department, chief of a Bureau, deputy thereof, or clerk therein, or other officer of The City of New York, is, shall be or become interested, directly or indirectly, as contracting party, partner, stockholder, surety or otherwise in or in the performance of the contract, or in the supplies, work or business to which it relates, or in any portion of the profits thereof. The bid or estimate must be verified by the oath, in writing, of the party or parties making the estimate that the several matters stated herein are in all respects true.

No bid or estimate will be considered unless as a condition precedent to the reception or consideration of any proposal, it be accompanied by a certified check upon one of the State or National banks of The City of New York, drawn to the order of the Comptroller, or money or corporate stock or certificates of indebtedness of any nature issued by The City of New York, which the Comptroller shall approve as of equal value with the security required in the advertisement to the amount of not less than three nor more than five per centum of the amount of the bond required, as provided in section 420 of the Greater New York Charter.

The amount shall be as specified in the proposals or instructions to bidders and shall not be in excess of 5 per cent.

The certified check or money should not be enclosed in the envelope containing the bid or estimate, but should be either inclosed in a separate envelope addressed to the head of the Department, President or Board, or submitted personally, upon the presentation of the bid or estimate.

For particulars as to the nature and quality of the supplies, or the nature and extent of the work, reference must be made to the specifications, schedules, plans, etc., on file in the said office of the President, Board or Department.

No bid shall be accepted from or contract awarded to any person who is in arrears to The City of New York upon debt or contract, or who is a defaulter, as surety or otherwise, upon any obligation to the City.

The contract must be bid for separately.

The right is reserved in each case to reject all bids or estimates if it is deemed to be for the interest of the City so to do.

Bidders will write out the amount of their bids or estimates in addition to inserting the same in figures.

Bidders are requested to make their bids or estimates upon the blank forms prepared and furnished by the City, a copy of which, with the proper envelope in which to inclose the bid, together with a copy of the contract, including the specifications, in the form approved by the Corporation Counsel can be obtained upon application therefor at the office of the Department for which the work is to be done. Plans and drawings of construction work may also be seen there.