

PUBLIC WORKS DEPARTMENT

1965 — 1966

IN CITY COUNCIL

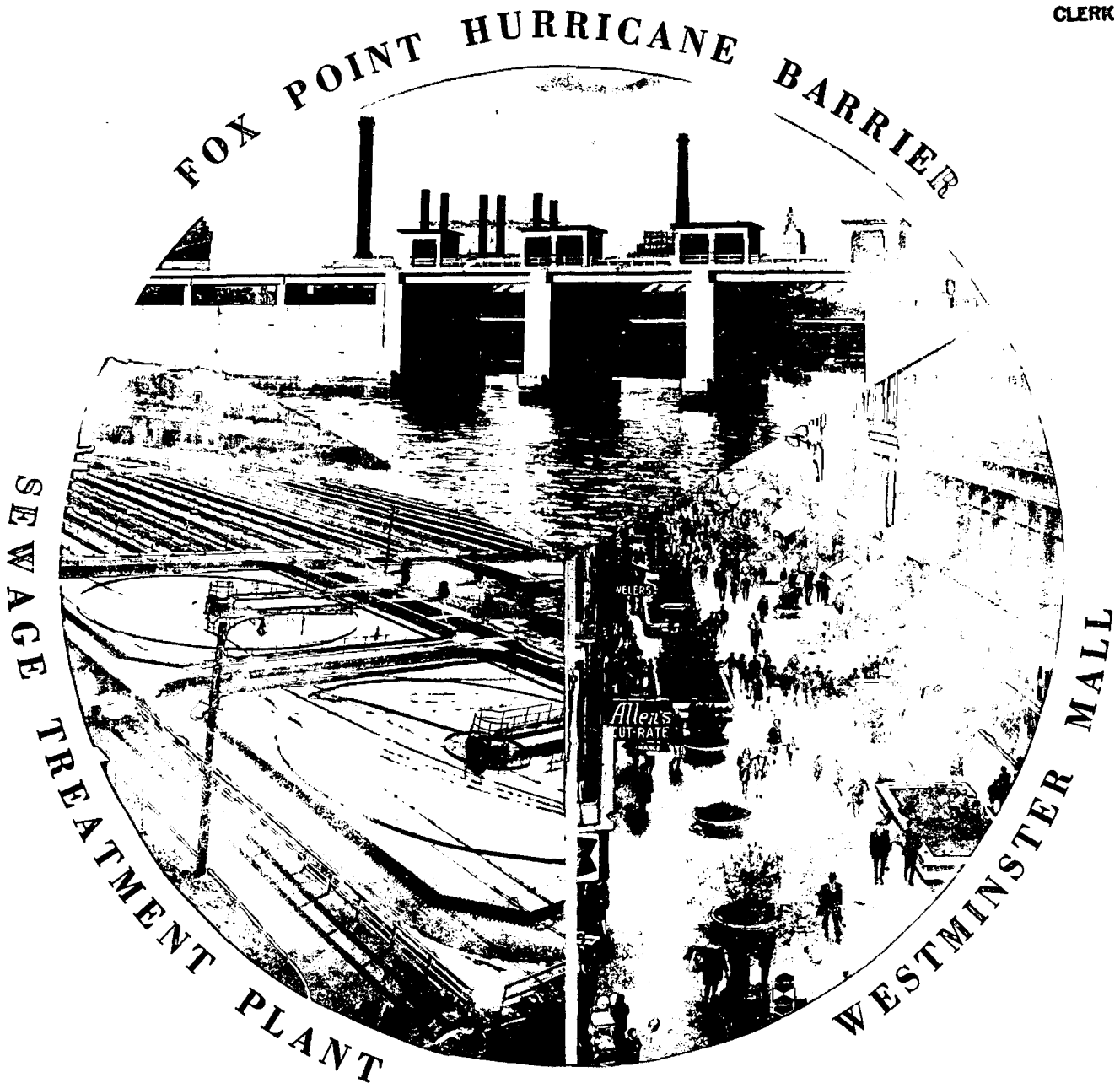
MAY 5 - 1967

ANNUAL REPORT

READ:

WHEREUPON IT IS ORDERED THAT
THE SAME BE RECEIVED.

Vincent Vecchia
CLERK



Providence, Rhode Island

INDEXPAGE NO.

OFFICE OF THE DIRECTOR

GENERAL ADMINISTRATION OFFICE.....1-3

ENGINEERING OFFICE.....4-32

SANITATION DIVISION:

Sanitation Administration.....33

Street Cleaning.....34,35

Sewage Pumping Station.....36-38

Sewage Disposal Works.....39,40

Garbage Collection & Disposal.....41-43

Refuse Collection & Disposal.....44-46

CONSTRUCTION AND MAINTENANCE DIVISION:

Const. and Maint. Administration.....47

Highway.....47-52

Hurricane Barrier.....53,54

Bridge Maintenance.....55-57

Sidewalk & Curbing.....58

Sewer Construction & Maintenance.....59,60

Draw Bridges.....61-63

Snow Removal.....64

PUBLIC WORKS REVOLVING FUND STORES.....65,66

PUBLIC BUILDINGS.....67-70

STREET LIGHTING.....71-80

TRAFFIC ENGINEERING.....81-86

MUNICIPAL DOCK.....87-93

FAMILY & BUSINESS RELOCATION SERVICE.....94-104

ENVIRONMENT CONTROL.....105-108

December 31, 1966

DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE DIRECTOR

The Honorable Joseph A. Doorley, Jr.
Mayor of the City of Providence
City Hall
Providence, R. I.

Dear Sir:

The following Annual Report, made in accordance with the provisions of Section 46 of Chapter 832 of the Public Laws of the State of Rhode Island, January session, 1940, covers the work performed during the year ending September 30, 1966, by the various divisions of the Department of Public Works. Appended to this report and to be considered as a part thereof, are the reports of the following Divisions of this Department:

General Administration
Construction and Maintenance
Sanitation
Engineering Office
Public Service Engineer
Harbor
Family and Business Relocation

Forestry

Contract work on the following projects was completed during the year:

Renewal of refractory lining of Unit No. 1 Garbage Incinerator by Leach Refractory Company at a cost of \$19,066.00.

Repairs and replacement of charging hopper, chain grate, residue chute and ash conveyor of Unit No. 1, Garbage Incinerator by Leach Refractory Company at a cost of \$36,586.60.

The contract for constructing highways in sundry streets by Campanella and Cardi Const. Co. was completed at a total cost of \$107,040.37.

The contract for building sewers in sundry streets by Nicholas Campabianco was completed at a total cost of \$66,222.90.

The contract for the construction of the Westminster Mall by the Campanella and Cardi Const. Co. was completed. This was a Federal-City Contract and the City's share of the cost was \$419,205.90.

The contract for constructing additional facilities at the Sewage Disposal Plant by the Hart Engineering Company was completed at a cost of \$399,283.06.

Plans and specifications were performed by the Engineering Office for storm sewers in the Mt. Hope Redevelopment Area.

This Department prepared specifications for and purchased the following equipment and materials during the year:

Automobiles
Dump Trucks
Garbage Trucks
Asphalt Spreader
Road Rollers
Air Compressor, Stationary
Air Compressor, Portable
Sand
Rock Salt
Lime Slurry
Liquid Chlorine
Ferric Chloride

The Highway Section resurfaced 113,505 sq. yds of streets during the year.

This Department has rendered assistance to various City Departments, Public Works Departments of the State of Rhode Island and the surrounding cities and towns as well as to outside agencies including the Chamber of Commerce, Brown University, the N. E. District Corps of Engineers and the U. S. Bureau of Public Roads. Our relationship has been very cordial with all of these agencies.

I am very appreciative of the splendid cooperation extended me by the City Council Committees on Public Works and City Property and wish to thank the members of these committees for their indulgence.

I also wish to thank the various other City Departments for the cooperation extended to this Department.

The successful operation of the Department is due to the united efforts of the staff, section heads and other key personnel in performing their duties and I wish to thank these people for a job well done.

Contract work on the following projects is still in progress:

1. Construction of Highways in Sundry Streets by Narragansett Improvement Company.
2. Construction of Sludge Incinerator by Ayres Hagan & Booth, Inc.
3. Construction of Sludge Incinerator by Nichols Engineering & Research Corp.
4. Replacing motors and switchgear alterations at Ernest Street Pumping Station by the Coken Company.
5. Rehabilitation of the Providence River Bridges by Builders Iron Works, Inc.
6. Surfacing and resurfacing of roads by M. A. Gammino Const. Co.

Plans and specifications are under preparation by the Engineering Office for the following projects:

1. Plans and specifications and contracts for the complete rehabilitation of Unit No. 1 at the Garbage Incinerator.
2. Plans and specifications are complete for the connection of the Elmwood trunk sewer to the Ernest Street Pumping Station.
3. Plans and specifications are completed for the rehabilitation of the Washington Park Pumping Station.
4. Plans and specifications have been completed for the installation of a spare chlorinator at the Sewage Disposal Plant.
5. Plans are being prepared for separating storm water run-off from the sanitary sewer in the various code enforcement and re-development areas.
6. A City wide program for the installation of reflectorized street signs has been prepared and specific programs in Code Areas No. 1 and 16 will be accomplished in 1967.
7. The plans for a new storm sewer in Fountain Street and for the separation of the freeway drainage from the Fountain Street-Sabin Street storm sewers have been prepared and coordinated with the Providence Redevelopment Agency and the State Public Works Department for construction by them.

The street resurfacing program in code areas No. 1 and No. 16 will be accomplished in 1967.

Personnel from the Engineers Office have been trained and are now operating the facilities of the Hurricane Dam.

RECOMMENDATIONS

Consideration should be given to the installation of a warning system for the detection of radio active isotopes at a location in the sewer system which would allow ample time to protect personnel at the Sewage Disposal Plant from radio activity.

Plans and specifications are being prepared for new ventilation fans in the Incinerator Hopper Rooms, the stabilization and repair of the walls on the southwest corner of the Sanitation Garage, the installation of new overhead doors of the Garbage Incinerator, the inspection and repair of the two (2) Westinghouse steam turbines of the Garbage Incinerator and the retubing of the boilers at the Garbage Incinerator. These projects should be let on bids and pushed to completion as soon as possible.

The flashing around the brick smoke stack in Unit No. 2 should be replaced.

The present City dump off Manton Avenue will be filled in the near future and according to our agreement with the owners the area must be covered with good fill and the land surveyed so that the stakes marking the property lines can be replaced. The old stakes were knocked down or covered by the dump operations.

It will also be necessary for the City to obtain another dump site.

Shelter of some kind against radio active fallout should be provided at the Sewage Disposal Works with supplies of water, food, and bedding for a maximum of 32 employees.

Paint all bridges not painted during the past three years.

Crib walk at Point Street needs extensive repairs.

Expansion joints of Gen. Edwards Memorial Viaduct require repairing.

Leland Street Footbridge should be rebuilt. The floating dock at the Harbor Master's Wharf at Point and South Water Streets is completely gone and a new one should be built.

Merino Park Footbridge should be completely rebuilt. The piles are in very bad condition.

Many of the Bituminous Macadam streets require either a surface treatment (seal coat) or a new top.

Some of the main City streets are showing signs of wear particularly at the joints and will require either extensive patching or new surfaces. We have sealed many of these joints to delay the deterioration but there is much more to be done especially with the increased use of salt for ice control.

Attention should be given in future building construction to the separation of rain water run-off from Sanitary Sewage.

A maintenance gang of one foreman and six men should be set up for the construction and maintenance division to maintain the buildings of the Public Works Department; such as, the Storage and Transit Sheds at Fields Point, Fields Point Dock Office, Harbor Master's Building, House and Building at the Red Bridge, Brick Building at Sewer Syphon on India Street, Incinerator Buildings, Incinerator Garage, Sewer Maintenance Building, Highway Building, and Railroad Tracks at Fields Point, the Washington Park Pumping Station, the Reservoir Avenue Pumping Station and the Ernest Street Pumping Station.

There are many items that should be maintained or repaired at the present time. Some of this work has or is presently being accomplished by the Bridge Maintenance Gang and the Carpenters and Masons for Sewer Shops and Stores and the Construction and Maintenance Shops and Stores; but it could be better accomplished by assigning a definite responsibility for this work.

Several sections of the City are presently being flooded by normal rainstorms and immediate corrective action is required to correct these conditions. The more serious of these conditions are in the following locations:

Fountain Street between Dean Street and Dorrance Street.
Penbroke College Area.
Rutherglen and Sinclair Avenue Areas.
Clay, Crary and Hospital Street Areas.
Dexter Street Area.

The surcharged Sewer conditions in the following streets should be corrected:

Woonasquatucket River Trunk Sewer.
Douglas Avenue - Branch Avenue at City Line.
Elmwood Sanitary Sewer at Allens Avenue and Ernest Street.
Rutherglen Avenue and Alexander Street.

Many of the tide gates along the Providence and Seekonk Rivers are in need of being repaired or replaced. (4 were replaced in 1966)

New Sewerage Agreements with the towns of North Providence and Johnston should be made. The rates should be revised upward to reflect the actual cost of providing this service.

Provisions should be made to transfer the Mechanical Engineers position from the Sanitation Division to the Engineering Office.

Provision should be made to establish the position of Electrical Engineer in the Engineering Office.

Provisions should be made to add the positions of carpenter and electrician to the personnel of the Shop and Stores Section. This would result in having two (2) carpenters in this section.

Very truly yours,

Lawrence P. McGarry
Lawrence P. McGarry

Director of Public Works

RECEIVED
MAY 14 1967
CITY CLERK
PROVIDENCE, R.I.

GENERAL ADMINISTRATION

Mr. Lawrence P. McGarry
Director of Public Works
700 Allens Avenue
Providence, Rhode Island

Dear Sir:

The Annual Report of the General Administration Office of the Public Works Department for the fiscal year ended September 30, 1966 is respectfully submitted:

STATEMENT OF REVENUE - ESTIMATED AND ACTUAL

	<u>Budget Estimate</u>	<u>Net Actual Revenue</u>	<u>Budget Excess</u>	<u>Comparison Deficiency</u>
Business and Non-Business:				
Licenses:				
Sidewalk Contractors	600.00	500.00		100.00
Highway Privileges	1000.00	740.00		260.00
Total Business & Non-Business	<u>\$1600.00</u>	<u>\$1240.00</u>		<u>\$360.00</u>
Special Assessments:				
Sewers	20000.00	28160.09	8160.09	
Total Sewer Assessments	<u>\$20000.00</u>	<u>\$28160.09</u>	<u>\$8160.09</u>	
Departmental Revenue:				
Public Works Administration		129.32	129.32	
Engineering Office		10.00	10.00	
Sewage Disposal	155000.00	168422.72	13422.72	
Garbage Collection & Disposal	24000.00	23504.53		495.47
Refuse Collection & Disposal		287.50	287.50	
Highways	34000.00	57910.10	23910.10	
Bridge Maintenance		16.04	16.04	
Forestry		328.00	328.00	
Snow Removal		369.39	369.39	
Sewer Construction & Maintenance	500.00	75.00		425.00
Street Lighting		104.50	104.50	
Municipal Dock	310000.00	314130.53	4130.53	
Draw Bridges		11.21	11.21	
Family & Business Relocation		10094.29	10094.29	
Total Departmental Revenue	<u>\$523500.00</u>	<u>\$575393.13</u>	<u>\$52813.60</u>	<u>\$920.47</u>
Total Statement	<u>\$545100.00</u>	<u>\$604793.22</u>	<u>\$60973.69</u>	<u>\$1280.47</u>

STATEMENT OF EXPENDITURES

FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1966

	PERSONAL SERVICES	SERVICES OTHER THAN PERSONAL	MATERIALS AND SUPPLIES	EQUIPMENT OUTLAY	TOTAL
General Administration	121,712.07	11,323.81	4,785.64	909.50	138,731.02
Engineering Office	186,977.74	14,140.69	1,833.51	284.70	203,236.64
<u>Sanitation Division</u>					
Sanitation Administration	23,133.82	863.86	43.31		24,040.99
Street Cleaning	260,647.50	78,175.36	1,545.56		340,368.42
Sewage Pumping Station	70,572.14	4,476.10	4,020.49	51.00	79,119.73
Garbage Collection & Disposal	670,474.65	117,446.44	28,458.88		816,379.97
Sewage Disposal	281,303.83	203,726.12	149,001.87	81.35	634,113.17
Refuse Collection & Disposal	91,726.79	31,313.00	160.17		123,199.96
<u>Construction & Maintenance Division</u>					
Construction & Maint. Admin.	9,907.56	822.60	4.90		10,735.06
Highway	712,478.16	163,968.53	116,540.98		992,987.67
Bridge Maintenance	42,877.85	5,743.77	7,309.71		55,931.33
Snow Removal	146,225.12	80,903.74	76,533.04		303,661.90
Sewer Const. & Maint.	263,699.77	54,585.42	20,126.41		338,411.60
Public Buildings	94,672.13	4,731.05	756.52	159.33	100,319.03
Draw Bridge Operation	53,816.42	856.20	457.17		55,129.79
Municipal Dock	44,206.40	11,682.20	1,460.42		57,349.02
Street Lighting	5,645.95	514,953.00			520,598.95
Family & Business Relocation	46,432.24	9,221.14	276.28	313.75	56,243.41
TOTAL - PUBLIC WORKS ACTIVITIES	3,126,510.14	1,308,933.03	413,314.86	1,799.63	4,850,557.66

THE FOLLOWING SERVICES WERE ALSO RENDERED BY THE GENERAL ADMINISTRATION
OFFICE FOR YEAR ENDING SEPTEMBER 30, 1966

APPLICATIONS RECEIVED

For altering curb openings for driveways	52
Construction of curb openings for driveways	226
Curbing resets	<u>69</u>
TOTAL APPLICATIONS	347

The above total includes 106 curb openings that were estimated

LICENSES ISSUED

Newspaper stands	8
Push Carts	9
Sidewalk Stands	19
Drain Layers Licenses	6
Drain Layers Licenses (Limited to Sprinkler System)	<u>4</u>
TOTAL LICENSES ISSUED	46

PERMITS ISSUED

Public Utilities	243
Blasting	4
For moving Cumbersome Equipment	1
Street Opening (Water Supply Board)	264
Original Permits for Sewer Connections	397
Extension of House Drains	339
Sidewalk Openings for Water Service	89
Street Openings (Other)	<u>88</u>
TOTAL PERMITS ISSUED	1,425

Respectfully submitted,

William J. Cain
Admin. Ass't. (P.W.)

ENGINEERING OFFICE

Mr. Lawrence P. McGarry
Director of Public Works
700 Allens Avenue
Providence, R. I.

Dear Sir:

Following is the Annual Report covering various activities of the Engineering Office for the Fiscal Year ending September 30, 1966.

EXPENDITURES

Item 0	Personal Services	\$186,977.40
Item 1	Services Other Than Personal	14,140.69
Item 2	Materials and Supplies	1,833.51
Item 5	Equipment	284.70

The Engineer's Office consists of three (3) standard and a miscellaneous section. The three standard sections perform the following work:

1. City Property and Street Line Section performs surveys, produces plans and keeps the records of the City streets, miscellaneous City property, the North Burial Ground and City Parks.
2. Highway Section designs, writes specifications for and supervises the construction and maintenance of highways.
3. Sewer Section designs, writes specifications for and supervises the construction and maintenance of sewers, drains and sewer appurtenances.

The miscellaneous section designs, writes specifications for the construction, maintenance and purchase of miscellaneous facilities and equipment used by the City.

A description of the projects accomplished by these sections during the year ending September 30, 1966 is as follows:

STREET LINE AND CITY PROPERTY

SECTION

NOTICES OF INTENTION TO BUILD

There were 200 notices of intention to build filed in this office during the fiscal year. Thirty-six of these were not required for various reasons. In response to the remaining 164 notices, the Street Lines were marked on the ground as requested for the specified locations as follows:

341-353 Bucklin Street	210 Allens Avenue
60 Stanton Street	48 Murray Street
34 Edgeworth Avenue	414-422 Smithfield Avenue
39 Dorothy Avenue	24 Leslie Drive
40-42 Armington Avenue	45 Harmony Drive
Northeast corner Dean	531 Manton Avenue
Street and Broadway	96 Barbara Street
39 Leslie Drive	133 Elmdale Avenue
21-27 Santiago Street	119 Ethan Street
69 Bradley Street	83 Dresser Street
27 Eliza Street	30 Batcheller Avenue
167 Berkshire Street	31 Tobyhanna Street
163 Berkshire Street	40 DePinedo Street
174 Donelson Street	181 Corliss Street
114 Rushmore Avenue	46 Netop Drive
19-21-23 Dresser Street	734 Hartford Avenue
23 Waite Street	26 Wardlaw Court
95-97 Ortoleva Drive	14 Broad Street
106-110 Rushmore Avenue	6 Winfield Court
56-62 Vaughan Street	41 Danby Street
36 Concord Street	26 Netop Drive
40 Santiago Street	36 Redwood Drive
36 Christopher Street	160 Francis Street
40 Christopher Street	107 Sunbury Street
29 Sandringham Avenue	700 Union Avenue
417 Smithfield Avenue	30 Netop Drive
110 Ellery Street	55 Danby Street
378 Cranston Street	46 Dorothy Avenue
59 Netop Drive	40 Blaine Street
38 Batcheller Avenue	38 Crandall Street
22 Joseph Street	153 Whittier Avenue
12 Calder Street	119 Sharon Street
80-84 Lubec Street	23 Togansett Road
19 Barrows Street	79 Wood Street
52 Pomona Avenue	757 Manton Avenue
71 Dresser Street	9 Emeline Street
87 Dresser Street	78 Hope Street
91 Atwells Avenue	251 Huxley Avenue
75 South Street	91 Brushhill Road
315 & 319 Broad Street at	83 Christopher Street
corner of Central Street	25 Tobyhanna Street
104-106 Stamford Avenue	51 Silver Spring Street
50 Dorothy Avenue	55 John Street
480 Broadway	21 Lavaughan Street
1029 Atwells Avenue	1 Togansett Road

19 Magman Road
83-85 Christopher Street
21 Harmony Drive
203 Montgomery Avenue
83 Benedict Street
11 Eames Street
95 Wainwright Street
40 Belmont Avenue
75 Rankin Avenue
287 Oak Street
10 Amsterdam Street
39 Hilarity Street
24 Wainwright Street
78 Sunset Avenue
405 Killingly Street
94 Parnell Street
635-639 Potters Avenue
86 Argol Street
86 Sunset Avenue
5 Togansett Road
199 Williams Street
56 Prosper Street
995 Smith Street
928 Admiral Street
2 Stanhope Street
111 Ledge Street
25 Sherwood Street
8 DiMario Drive
64 Unit Street
38-42 Dorothy Avenue
811 Hope Street
56 Texas Avenue
104 Waller Street
115 Cedar Street
357 Benefit Street
139 Chatham Street
73 Rome Avenue
111 Douglas Avenue
32 Westmore Street
12 Job Street
61 Funston Avenue
75 Windmill Street
153 Westminster Street
202 Eastwood Avenue
187 Greeley Street
191 Gridley Street
85 Windmill Street
108 Waller Street
14 Job Street
321 South Main Street
23 Diamond Street
86 Meridian Street
377 Killingly Street
397 Washington Street
26 Silver Spring Street
50 Faunce Drive
457 Eaton Street

65 Brook Street
96 Flora Street
754 Broad Street
46 Stonelaw Avenue
169-171 Somerset Street
48 Standish Avenue
811 River Avenue
125 Indiana Avenue
26 Marvin Street
111 Petteys Avenue
37 Funston Avenue
595 Mount Pleasant Avenue
67 Fallon Avenue
80 Faunce Drive
86 Bowlet Street
87 Hilarity Street
27 Redwood Drive
89 Enfield Avenue
964 Westminster Street
645 Elmwood Avenue
80 Plain Street
867 Plainfield Street
15 Ascham Street
248 Manton Avenue
15 Rowan Street
50 Steuben Street
712 Hope Street
149 Point Street
125 Thayer Street
13 Gloucester Street
16 Wainwright Street
12 Glen Drive
2 Longwood Avenue
1051-1053 Broad Street
931 Smith Street
60 Netop Drive
133 Valley Street
157 Thurbers Avenue
40 Netop Drive
51-53 Victoria Street
125 Bowdoin Street
142 Wood Street
191 Isabella Avenue
33 Harmony Drive
26 Whitehall Street
89 Isabella Avenue
94-96 Isabella Avenue
234 Rankin Avenue

Field surveys on the 8 streets accepted as public highways by the City Council were made and the lay-out maps were drawn for office use and for the official records of the City Clerk.

Information pertaining to street lines, including records of street lay-outs, widenings, abandonments, alignment changes and name changes was furnished to Engineering firms and Title companies throughout the year.

Street Lines were marked out on the ground for the construction of new sewers when requested by the Sewer Section of the Engineering Office.

Street Line information was furnished to Engineers for the State of Rhode Island, Department of Public Roads in conjunction with their work on the various freeways.

The following streets were received by the City Council under various forms governing the acceptance of streets during the year:

<u>NAME</u>	<u>BETWEEN POINTS</u>	<u>LENGTH IN FEET</u>
Actinia Street	Rushmore Avenue to Sisson Street	369.475
Clarkson Street	Point previously received easterly to easterly termination	102.16
Dorothy Avenue	Westerly line Robin Brook Sewer to Charles Street	285.88
Havana Street	Lubec Street to Joseph Street	160.00
Joseph Street	Unnamed Street east of Havana Street westerly to its westerly termination	404.27
Monticello Street	Opfer Street to Robin Brook Sewer Right-of-Way	220.31
Winfield Court	Winfield Road to its southerly termination	248.147
Winfield Road	Blackstone Boulevard to Eighth Street	<u>731.983</u>
		2,522.225

THE FOLLOWING STREETS WERE ABANDONED DURING THE YEAR

RECEIVED STREETS ABANDONED

<u>NAME</u>	<u>BETWEEN POINTS</u>	<u>LENGTH IN FEET</u>
Beverly Street	Fountain St. Northwesterly to Sabin Street	160.00
Beverly Street	Sabin Street Northwesterly to Mason Street	224.14
Burrill Street	Weybosset St. northerly to Westminster Street	256.23
Calender Street	Fountain Street Northwesterly to Sabin Street	155.00

Calender Street	Sabin St. northwesterly to Mason St.	280.33
Chapel Street	Empire St. westerly to Burrill St.	39.50
East Orchard Avenue	Butler Ave. to Patterson St.	291.25
Marengo Street	Parsonage St. easterly	170.83
Parsonage Street	Southerly line of Lake St. southerly to Marengo St.	115.89
Patriot Street	South Water St. to South Main St.	136.12
Tallman Street	Richmond St. easterly to Eddy St.	191.09
Weybosset Street	Southwesterly line of Empire St. southwesterly	536.39
Weybosset Street	Junction easterly line of Franklin St. easterly	<u>138.30</u>
		2,695.07 Feet
		.51042 Miles

UNRECEIVED STREETS ABANDONED

<u>NAME</u>	<u>BETWEEN POINTS</u>	<u>LENGTH IN FEET</u>
DiPippo Street	Killingly St. to northeast- erly termination	472.00
Joseph Street	Triangular portion at North Providence City Line	62.01
Newcomb Street	Douglas Avenue to Forsyth Street	160.00
Penelope Place	Westerly termination to point 108 ft. easterly	108.00
Shipyard Street	Portion between Ernest St. and New York Avenue	909.74
Unnamed Gangway	Beverly St. northeasterly to Calender St.	<u>80.00</u>
		1,791.75 feet
		.3393 miles

The approximate length of streets platted but not Received is 41.1829 miles.

The net addition during the year added to the previous total makes the length of Received Streets at the end of the Fiscal Year 1966 (measured along property lines) 370.1310 miles.

In addition to the total of Received Streets there are 3.21 miles of Roadway in the Governor Dennis J. Roberts expressway.

THE FOLLOWING STREET, RECENTLY PLATTED, HAS BEEN ADDED TO THE LIST OF UNRECEIVED STREETS:

Cahir Street	Broad St. to Westminster St.	841.420
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CITY PROPERTY PLANS AND SURVEYS WERE MADE
COVERING THE FOLLOWING PROJECTS:

North Burial Ground	Survey
Terminal Road	Proposed Lease
Dike Street	Zoning Change
Westminster Street	Proposed Abandonment
Thurston Street	Proposed Sale
Earl Street	Proposed Abandonment
Netop Drive	Proposed Sale
Angell Street	Zoning Change
Garibaldi Playground	Proposed Sale
So. Main Street	Proposed Lease
Roger Williams Park Plat	Proposed Sale
Pioneer Lane	Proposed Lease
Stimson Avenue	Zoning Change
Fifth Street	Proposed Sale
April Court	Proposed Sale
Jewett Street	Zoning Change
Terminal Road	Proposed Sale
Beverly Street	Proposed Abandonment
Richardson Street	Proposed Playground
Eaton Street	Proposed Tot Park
Hartford Avenue	Zoning Change
Calender Street	Proposed Abandonment
Netop Drive	Proposed Sale
Sessions Street	Proposed Playground
Valley Street	Zoning Change
Patriot Street	Proposed Abandonment
Huxley Avenue	Proposed tot lot
Parsonage Street	Proposed Abandonment
Bridgham Street	Zoning Change
Roger Williams Park Plat	Proposed Sale
Elmgrove Avenue	Proposed Exchange of Land
Highland Avenue	Proposed Playground
Lena Street	Proposed Sale
Marengo Street	Sewer Easement
April Court	Proposed Sale
Chaffee Street	Zoning Change
Knowles Street	Proposed Playground
Sessions Street	Proposed Exchange of Land
Shipyard Street	Proposed Relocation
Thurbers Avenue	Zoning Change
Broad Street	Proposed Lease
Dean Street	Zoning Change
Camp Street	Proposed Playground
Washington Street	Proposed Lease
Shipyard Street	Proposed Abandonment
Empire Street	Proposed Lease
Butler Avenue	Zoning Change
Duncan Avenue	Proposed Playground
Bough Street	Proposed Purchase
Admiral Street	Zoning Change
Shipyard Street	Brewster Lease
Winter Street	Proposed Sale
Oldham Street	Proposed Lease
Dike Street	Proposed Purchase

Clia Street
North Burial Ground
Broad Street
Netop Drive
Merino Park
Reservoir Avenue
Roger Williams Park
Kennedy Plaza
Chalkstone Avenue

Zoning Change
Survey
Proposed Sale
Proposed Sale
Proposed Playground
Zoning Change
Proposed Lease
Proposed Abandonment
Zoning Change

THE FOLLOWING PLANS OF STREET LINES WERE DRAWN FOR GENERAL OFFICE USE:

Fields Point	Street Name Pattern
Manton Court	Proposed Abandonment
Penelope Place	Proposed Abandonment
Hamlin Street	Layout
Stamford Avenue	Layout
King Phillip Street	Layout
Weybosset Street	Proposed Abandonment
Burrill Street	Proposed Abandonment
Spooner Street	Layout
Thurston Street	Layout
Netop Drive	Layout
East Orchard Avenue	Proposed Abandonment
West Hoyle Street	Proposed Abandonment
Atwells Avenue	Proposed Abandonment
Beverly Street	Layout
Actinia Street	Layout
Dorothy Avenue	Layout
Barbara Street	Proposed Abandonment
Rollin Street	Proposed Abandonment
Shipyard Street	New Location
Magente Street	Proposed Abandonment
Empire Street	Proposed Abandonment
Westminster Street	Proposed Abandonment
Chapel Street	Proposed Abandonment

NEW PLANS WERE DRAWN DURING THE YEAR TO ASSIST THE CITY COUNCIL IN CONSIDERATION OF PROPOSED CHANGES IN THE ZONING MAPS AS PETITIONED BY VARIOUS PERSONS. THE FOLLOWING AMENDMENTS WERE APPROVED:

Admiral Street	Rounds Avenue
Cypress Street	Pontiac Avenue
Bridgham Street	Reservoir Avenue
Carpenter Street	Jewett Street
Westminster Street	Smith Street
Hartford Avenue	Butler Avenue
Valley Street	Celia Street
Jewett Street	Barbara Street
Dike Street	Hartford Avenue
Orms Street	Pitman Street
Westminster Street	East George Street
Colfax Street	Wayland Avenue
Nolan Street	Gano Street
Chalkstone Avenue	Butler Avenue

Dean Street
Chaffee Street
Thurbers Avenue
Stimson Avenue

Angell Street
Westminster Street
East George Street
Pitman Street

DESCRIPTIONS OF THE ABOVE APPROVED CHANCES WERE DRAFTED AND FURNISHED TO THE ZONING OFFICE AND THE CITY COUNCIL FOR INCORPORATION IN THE ORDINANCES.

THE FOLLOWING PLANS WERE DRAWN FOR AMENDMENTS TO THE ZONING ORDINANCE THAT FAILED OF PASSAGE:

Waterman Street
Butler Avenue
Joseph Street
Douglas Avenue
Huntington Avenue
Homestead Avenue
Calhoun Avenue
Branch Avenue
Adelaide Avenue
Derry Street
Burns Street
Wild Street
Turner Street

Plainfield Street
Chalkstone Avenue
Heath Street
Lecia Drive
Chad Brown Street
Auriela Drive
South Angell Street
Jacqueline Drive
Wyndham Avenue
Potters Avenue
Sunset Avenue
Neutaconkanut Road
Manton Avenue
Madison Street

NORTH BURIAL GROUND

During the year 123 deeds to lots conveyed by the City and 137 certificates of Perpetual Care have been drawn. Descriptions of lots were furnished the superintendent. Field surveys were made and lots staked out on the ground when requested. Elevations were taken and surveys were made for the development of four new sections at the request of the superintendent.

GENERAL

DURING THE YEAR THE FOLLOWING WORK OF A SPECIAL NATURE WAS COMPLETED:

Location surveys were made to assist the Police Department in prosecuting license violations.

Title research work was made on various parcels of land in the City's interest.

Street lines were re-established, buildings located and plans made for various streets.

Surveys were made for leases of City owned land at Field's Point.

Various street locations were given to assist the Narragansett Electric Company and the Telephone Company in setting new poles.

Surveys were made and plans drawn for proposed street widening.

Several plans were drawn to assist the City Clerk's Office in accordance with City Council Ordinances.

Measurements were taken and plans made for Public Buildings Department for sidewalk construction estimates.

Measurements were taken and plans drawn to assist the Police Department in the prosecuting of murder and accident cases.

The annual chart showing the incidence of certain contagious diseases was prepared for the use of the Health Department.

Resolutions were drafted for the City Council, covering all actions relating to the acceptance and abandonment of streets, defining grades and grading and curbing streets.

Plats presented for record have been compared for the Recorder of Deeds Office and Plats for recording have been furnished the Recorder's Office under the provisions of Chapter 987 and 2118 of the Public Laws.

Descriptions of land taken by condemnation for highways and park purposes and for incorporation in deeds of land purchased or sold, leases and rights-of-way to and from the City, the methods by which various properties were acquired, the purpose of original purchase and present status were furnished to the Law Department and other assistant rendered as requested.

Engineering assistance was given to the Public Buildings Division, Police Department, City Plan Commission, Traffic Division, Board of Canvassers, City Clerk's Office, City Controller's Office, Tax Assessor's Office, Redevelopment Agency, Water Department and Building Inspection Division, from time to time.

A location survey was made and grades were marked at Field's Point on City-owned land on Shipyard Street, leased to Brewster Lumber Company.

Street lines were established, buildings located and plans drawn for various roads in the Field's Point area.

A survey was made showing location of walls and paths and new graves were staked out on Vine Avenue in the North Burial Ground.

A survey was made of City-owned land at New York Avenue and Shipyard Street for lease to Halloran Construction Company.

A survey was made and plans drawn showing the locations of walls and fences at the playground at Camp Street, Knowles Street and Duncan Avenue at the request of Public Buildings Department.

-12-

Surveys were made and plans drawn for new leases of City owned land at Fields Point.

A survey was made and a new section of graves and paths were laid out in the Birch Avenue Section of the North Burial Ground.

Inspection was provided by members of this section for the ice control and snow removal operations of the Public Works Department.

During the year extensive work was done for the Board of Canvassers and Registration in preparing tabulation charts for primary and regular elections.

Assistance was given to the Board of Canvassers and Registration by request of said Board and the Mayor by furnishing one man from this Department to work with a member of the City Plan Commission to design and formulate a method of applying the Reapportionment Act of 1966, which revised all Senatorial and Representative districts in the City of Providence, to the present unchanged Ward, School, Congressional and Senatorial districts to define the new resulting voting districts. New Senatorial, Representative, Ward and School district maps were prepared and revised to reflect all changes to 1966.

A survey was made and lines established on Fort Avenue.

A survey was made and lines established on New York Avenue.

A survey was made and lines established on Pontiac Street at the request of the Sewer Department.

A cross section was made of a portion of Merino Park and locations taken at the request of the City Plan Department.

A survey was made and grades were marked on Shipyard Street for the lowering of a high service gas main at the request of the Providence Gas Company.

A survey was made, lines were re-established, buildings were located and new plans drawn for the following streets:

Opper Street
Burns Street
Manila Street
Sears Avenue

Buel Court
Cambridge Street
Havana Street
Killingly Street-Sunset Ave.
to Hartford Ave.

A topographical survey was made at Huxley Avenue and Eaton Street at the request of the City Plan Department.

A survey was made showing locations of walls and paths and new grades were staked out on Crescent Ave. in the North Burial Ground.

A topographical survey was made and locations taken on City owned land at Harborside Blvd in the Field's Point Area.

A survey was made and plans were drawn of excess condemnation property of the Olneyville Expressway at Judith Street, Lena Street and Huldah Street.

Survey was made, grades marked and daily inspection provided for the building of the playground at Wendell Street, Ellery Street and Rosedale Street.

A survey was made at Barbara Street and Middleton Street of excess freeway condemnation property.

A survey was made and locations taken at Roger Williams Park race track.

Inspection was provided by members of this section for the ice control and snow removal operations of the Public Works Department.

During the year members of this Department assisted in the operation and maintenance of the Fox Point Hurricane Dam.

Measurements were taken and plans drawn to assist the Police Department in the prosecuting of murder and accident cases.

The annual chart showing the incidence of certain contagious diseases was prepared for the use of the Health Department.

A topographical survey was made, and plans were drawn of property at Highland Avenue, Second Street, Third Street, Fourth Street and Creston way at the request of the City Plan Department.

Surveys were made on Netop Drive and Stamford Avenue in the new Plat Development adjacent to Roger Williams Park.

A survey was made and locations taken on April Court for a proposed abandonment.

A survey was made, lines established, buildings located and plans drawn of Ardwick Street at the request of the Highway Section.

A survey was made and lines established for the Water Department on Horace Street.

A survey was made and lines established for relocation of Shipyard Street.

A survey was made and lines established on Boundary Avenue.

A survey was made and lines established for a new highway, as yet unnamed, off Plainfield Street.

The Providence-Cranston City Line at Reservoir Avenue was re-established at the request of the Traffic Engineer.

A survey was made, lines established and buildings located on Terminal Road.

A survey was made and lines established on Myra Street.

A survey was made and lines established on Sunset Avenue.

Measurements were taken and plans drawn to assist the Police Department in the prosecution of murder cases:

Empire Street
Murphy Street
Atwells Avenue
Dean Street

Tanner Street
Broad Street
Chalkstone Avenue

A survey was made, plans were drawn, and a new section of graves were laid out on the ground at Walnut Street in the North Burial Grounds.

The annual tabulation of all real estate owned by the City of Providence and real estate in which the City of Providence has an interest was made and classified for the City Controller for inclusion in his report and known as Part II-Statistical Information and shown as tables 1 and 2, of real estate and personal property data in compliance with the provisions of Section 85, Chapter 2, Revised Ordinances of 1946. These tables of real estate were prepared by this office from records of this Department and tax valuations furnished by the Tax Assessor's Office.

This report, of the City Controller, divides City held property into the following categories:

Parks and Playgrounds
Miscellaneous Public Buildings
Miscellaneous Real Estate
Public Schools
Fire Stations
Police Stations
Real Estate acquired at tax sale
Water Works
Dexter Donation
Charles H. Smith Estate

This report breaks down each parcel of City-Owned land into Assessor's Plats, Lots, Land Values, Building Improvement Values and Total Unit Valuations.

Also reflected in this report is a compilation of all productive real estate showing a description of property leased, rent per annum, term of lease and termination date.

HIGHWAY SECTION

Work performed in general is as follows:

ESTIMATES. Estimates for payment to contractors for work performed under supervision of this section are prepared on a monthly basis and a final estimate, showing the complete cost of all work performed, is prepared for each contract. In addition, bids for highway work are checked and tabulation sheets drawn for the Board of Contract and Supply.

Estimates of the cost of making improvements, consisting of curb openings, furnishing and setting curbing, relaying pavements in curb openings, changing curb as desired by 106 individuals or corporations, were furnished the Director of Public Works.

BUILDING NOTICES. Grades either proposed, defined or established have been marked on the ground for parties intending to build on seven (7) streets covering nine (9) applications.

CURBING. Lines and grades have been marked out for resetting curbing and paving gutters in portions of streets as requested.

PROFILES. Profiles of sundry streets, approximately 0.486 miles have been made for the purpose of defining grades. The contours of the center and side lines are shown at fifty foot stations, also the levels of the sills and ground lines of the houses adjoining the streets. The profile plans include plan views with property lines and houses shown.

STREET GRADING. Abutting owners: Grades in sundry streets have been marked out at intervals of about fifty feet for street grading of for the benefit of individuals owning abutting property.

ASSESSMENTS. The Highway Section computes assessments for curbing and grading.

SPECIAL. This section compiled an index showing zones and routes for all streets in the City for use during snow control operations.

During the year, this section supplied personnel for operations other than normal duties. During snow storms, men from this section manned the communications center and inspected conditions in their assigned zones.

The Fox Point Hurricane Barrier Pumping Station is staffed in part by men from said section.

Grades were marked, supervision and inspection was furnished, by this section in conjunction with the reconstruction of the Crawford Street Bridge complex.

Assistance was provided to the Redevelopment Agency during the resurfacing of Broadway.

Plans were drawn and cost analyses compiled by this section for several phases in areas one and sixteen of the General Neighborhood Renewal Program.

Plans and Specifications, Engineering Field Work and Inspections were furnished for the construction or the reconstruction of the following streets by the Construction and Maintenance Division-Highway Section:

TYPE-BITUMINOUS CONCRETE

<u>STREET</u>		<u>SQUARE YARDS</u>
Alvin Street	Reservoir Ave. to Crescent St.	3,763
Bassett Street	Chestnut St. to Ship St.	260
Benedict Street	Cranston St. to Salem St.	3,873
Berkley Street	Harold St. to Lisbon St.	3,090
Black Street	32 ft. south of Hawes St. to pt. 56.5 ft. northerly	268
Butler Avenue	Pitman St. to Angell St.	3,464
Carleton Street	Chaucer St. to Chalkstone Ave.	4,446
Cemetery Street	North Main St. to Frost St.	3,010
Chace Drive	Chace Ave. to northerly termination	766
Chad Brown Street	Pinehurst Ave. to Tyndall Ave.	560
Chaucer Street	Carleton St. to Lynch St.	3,301
Cornwall Street	Hawkins St. to a point 179 ft. north of Longmont St.	3,469
Crescent Street	Adelaide Ave. to Reservoir Ave.	4,324
Dryden Lane	Branch Ave. to Printery St.	1,043
Dutton Street	Atwells Ave. to Fowler St.	891
East George Street	Governor St. to Gano St.	2,969
Eagle St. Bridge		240
Eastwood Avenue	Heath St. to Merino St.	6,870
Elbow Street	Ship St. to Chestnut St.	777
Farm Street	Academy Ave. to Webb St.	2,960
Frost Street	North Main St. to Cemetery St.	2,166
General Street	Hazael St. to Admiral St.	4,922
Gillen Street	Charles St. to easterly termination	2,018
Glover Street	Mt. Pleasant Ave. to Home Ave.	3,001
Grosvenor Avenue	Chalkstone Ave. to Pleasant Valley Parkway	2,619
Hendrick Street	Academy Ave. to Erastus St.	5,157
Hillcrest Avenue	Freedom Road to Chalkstone Ave.	1,309
Jewell Street	Plainfield St. to Killingly St.	1,121
Jones Street	Bradford St. to Bond St.	535
Joslin Street	Amherst St. to Kossuth St.	1,140
Kepler Street	Academy Ave. to easterly termination	1,426
Lennon Street	Mt. Pleasant Ave. to Smith St.	2,739
Lindy Avenue	Chalkstone Ave. to Glover St.	1,888
Loreto Street	Charles St. to Commodore St.	1,091
Matilda Street	North Main St. to Nashua St.	891
Maynard Street	Sisson St. to Brushhill Road	1,813
Moulton Street	Westminster St. to Maiden Lane	416
Nashua Street	Frost St. to Cemetery St.	2,043
Oakdale Street	Huxley Ave. to termination	653
Pallas Street	Kenyon St. to Carpenter St.	1,557
Parade Street	Cranston St. to Hollis St.	834

Pasteur Street	Huxley Ave. to Tyndall Ave.	895
Paul Street	Charles St. to Windmill St.	1,731
Puritan Street	Potters Ave. to Huntington Ave.	1,562
Redwood Street	Huxley Ave. to termination	617
Regent Avenue	Harold St. to River Ave.	1,713
Regent Avenue	Lisbon St. to easterly termination	673
Rowan Street	Glover St. to Chalkstone Ave.	2,045
Rutland Street	Elmwood Ave. to Bucklin St.	803
Salem Street	Potters Ave. to Waldo St.	1,832
Veazie Street	Branch Ave. to Woodward Road	4,168
Wainwright Street	Admiral St. to Sunbury St.	2,840
Woonasquatucket Avenue	Prov. City Line to a pt. 420 ft. southerly	1,400
Yale Avenue	Carleton St. to Lynch St.	<u>3,543</u>
Total		113,505

Plans and Specifications, Engineering Field Work and Inspections were furnished for the grading, curbing, and construction of the following streets:

By Narragansett Improvement Company

<u>STREET</u>	<u>TYPE - BITUMINOUS CONCRETE</u>	<u>SQUARE YARDS</u>
Cavallatti Street	Farmington Ave. to a pt. 325 ft. southerly	884
Manomet Street	Standish Ave. to Samoset Ave.	469
Victoria Street	South line of Gage Street to a pt. 62.44 ft. north of Guelph St.	811
Virginia Lane	Douglas Ave. to a pt. 421 ft. easterly	1,179
Wardlaw Avenue	Wardlaw Ave. to Stonelaw Ave.	<u>483</u>
Total under contract to Narragansett Improvement Company		3,826

Construction was in progress in the following streets on September 30, 1966:

Coggeshall Street	Douglas Ave. to Mowry Street
Clarkson Street	Portion previously paved to its easterly termination
Crawford Street	Kennedy Plaza to Crawford Street
Bridge Areas	Pine Street to Friendship Street
Dyer Street	Broad Street to Baxter Street
Gladstone Street	Sayles Street to Mystic Street
Harriet Street	Opper Street to Robin Brook Sewer
Monticello Street	Ocean Street to Prairie Avenue
Sayles Street	

Following is a list of unimproved streets ordered built by City Council Resolution, construction of which has not commenced:

<u>STREET</u>	<u>CURB ORDERED</u>	<u>LENGTH IN FEET</u>
Actinia Street, Rushmore Ave. to Sisson St.	Oct. 26, 1965	409
Aurelia Drive, Lecia Drive to Neutaconkanut Road	May 11, 1965	396
Canonchet Street, Samoset Ave. to Standish Ave.	May 11, 1965	176
Crary Street, Allens Ave. to east line of unnamed street	Dec. 5, 1940	276
Cutler Street, Newark St. to Atwells Avenue	Aug. 7, 1952	206
Dorothy Avenue, Westerly line of Robin Brook Sewer to Charles Street	Oct. 26, 1965	283
Gage Street, Victoria Street to Samoset Street	May 11, 1965	361
Galileo Avenue, From the point previously received, 500 ft. north of Chalkstone Avenue, northerly and easterly to Standish Avenue	May 11, 1965	1,213
Guelph Street, Victoria Street to its easterly termination	May 11, 1965	219
Jacqueline Drive, Legion Memorial Drive to Neutaconkanut Road	May 11, 1965	446
Joseph Street, Unnamed Street east of Havana St. westerly to its westerly termination	Oct. 26, 1965	409
Joy Street, River Avenue to its westerly termination	Dec. 6, 1954	400
Lecia Drive, Jacqueline Drive to Sunset Avenue	May 11, 1965	530
Manomet Street, Samoset Avenue to Victoria Street	May 11, 1965	391
Neutaconkanut Road, Sunset Avenue to its southerly termination	May 11, 1965	792
Platted Street, Crary Street to Globe Street	Dec. 5, 1940	117
Redwood Drive, City Line at Longwood Avenue to City Line at Royal Avenue	May 6, 1960	301
Roda Drive, Lecia Drive to Neutaconkanut Road	May 11, 1965	313
Samoset Avenue, From the southerly line of Gage Street, northerly to Galileo Avenue	May 11, 1965	543
Stillwater Avenue, Brightwood Avenue, northerly to the City Line	Feb. 19, 1965	818
Trainor Street, Acorn St. to De Pasquale Avenue	June 20, 1935	249

Victoria Street, From a pt. 62.44 ft. north of Guelph Street to Galileo Avenue	May 11, 1965	55
Virginia Lane, From a pt. 421 ft. east of Douglas Ave. to the easterly line of Glasgow Street	May 11, 1965	<u>490</u>
Total		9,393

PETITIONS TO HAVE GRADE DEFINED

<u>DATE</u>	<u>STREET AND LOCATION</u>
Jan. 20, 1955	Adie Street, from Atwells Ave. to Cedar St.
Feb. 17, 1955	Ophelia Street, from a point 120 ft. S. of Thornton St. to Wolfe St.
June 2, 1955	Aumond Street, from Edgewood Blvd. to City Line
Sept. 1, 1955	Queen Street, from Laurel Hill Ave. to its northerly termination.
Nov. 3, 1955	Hymer Street, from Crandall St. to Seamans Street
Dec. 1, 1955	Derry Street, from Oregon St. to Geoffreys Court
May 3, 1956	Stukely Street, from Hartford Ave. to #41 Stukely Street
Aug. 2, 1956	Libia Street, from Farmington Ave. to its termination
Sept. 6, 1956	Minnesota Street, from Woodward Rd. to its termination
Feb. 7, 1957	Maria Street, from Killingly St. to City Line
May 16, 1957	Corsica Street, from Fruit Hill Ave. to Genoa St.
May 16, 1957	Genoa Street, from Fruit Hill Ave. to Taranto Street
July 11, 1957	Hillard Street, from Manton Ave. to Pelham Street
July 11, 1957	Cowper Court, from Messer St. to its termination
Oct. 3, 1957	Duke Street, from Orms St. to Smith St.
May 1, 1958	York Street, from North Main St. to Steel St.
July 3, 1958	Proctor Place, from Doyle Ave. to termination
Aug. 7, 1958	Sedan Street, from Argol St. to termination
Sept. 4, 1958	Yorktown Place, from Linton St. to its termination
Nov. 6, 1958	Myra Street, from Killingly St. to Boundary Ave.
Feb. 19, 1959	Deerfield Terrace, from Alger Ave. to its termination
Mar. 5, 1959	Sibley Street, from Crescent St. to its westerly termination
April 2, 1959	Nye Street, from Ida St. to Merino St.

July 2, 1959	Batterson Street, from Walsh St. to Bullock Ave.
July 2, 1959	Bullock Avenue, from Batterson St. to City Line
July 2, 1959	Hennessey Street, from St. Thomas St. to Bullock Ave.
July 2, 1959	Rowley Street, from Batterson St. to Hennessey Street
July 2, 1959	Triggs Street, from Walsh St. to Bullock Avenue
July 2, 1959	Walsh Street, from Batterson St. to Hennessey Street
March 3, 1960	Wayland Avenue, from Pitman St. to its southerly termination
March 3, 1960	Unnamed Gangway, from Peter St. to Ledge Street
Sept. 1, 1960	Owen Street, from Manton Ave. to King St.
Feb. 16, 1961	East George Street, Gano St. to Butler Avenue
April 20, 1961	Haswell Street, from Eddy St. to its easterly termination
May 18, 1961	Shaw Street, from Langdon St. to Lakeside Street
Aug. 10, 1961	Lakeside Street, from Shaw St. to Everson Street
Feb. 15, 1962	Shaw Street, easterly line of Lakeside St., westerly to its westerly termination
March 1, 1962	Unnamed Gangway, east of Havana St. westerly to the City Line
June 7, 1962	Dakota Street, Woodward Rd. to termination
Feb. 20, 1964	Thurston Street, Stamford Ave. to the westerly line of Potter Drive
March 19, 1964	Molter Street, from Service Road #10 to Lakeview Drive
March 18, 1965	Lynde Street, from Longwood Ave. to its easterly termination

PETITIONS FOR CURBING AND GRADING

<u>DATE</u>	<u>STREET LOCATION</u>
Feb. 17, 1955	Ophelia Street, from a point 120 ft. south of Thornton St. to Wolfe St.
May 5, 1955	Park Row, from Edgewood Blvd southerly to Cranston City Line
June 2, 1955	Aumond Street, from Edgewood Blvd to City Line
Sept. 1, 1955	Queen Street, Laurel Hill Ave. to its northerly termination
Nov. 3, 1955	Hymmer Street, from Crandall St. to Seamans Street
Dec. 1, 1955	Derry Street, from Oregon St. to Geoffreys Court
May 3, 1956	Stukely Street, from Hartford Ave. to #41 Stukely St.

Aug. 2, 1956	Libia Street, from Farmington Ave. to its termination
Nov. 15, 1956	Burton Street, from Bingham St. to its termination
Feb. 7, 1957	Maria Street, from Killingly St. to City Line
May 2, 1957	Hagan Street, from Charles St. to Langdon Street
July 11, 1957	Hillard Street, from Manton Ave. to Pelham Street
July 11, 1957	Cowper Court, from Messer St. to its termination
Aug. 15, 1957	Grotto Avenue, from Upton Ave. to portion already received
Oct. 3, 1957	Duke Street, from Orms St. to Smith St.
Feb. 20, 1958	Carver Court, from 53 Pleasant St. to its termination
May 1, 1958	York Street, from North Main St. to Steele Street
July 3, 1958	Proctor Place, from Doyle Ave. to its termination
Sept. 4, 1958	Yorktown Place, from Linton St. to its termination
Sept. 18, 1958	Tappan Street, from angle to Admiral Str.
Nov. 6, 1958	Myra Street, from Killingly St. to Boundary Ave.
March 5, 1959	Sibley Street, from Crescent St. to its westerly termination
July 2, 1959	Batterson Street, from Walsh St. to Bullock Ave.
July 2, 1959	Bullock Avenue, from Batterson St. to City Line
July 2, 1959	Hennessey Street, from St. Thomas St. to Bullock Ave.
July 2, 1959	Rowley Street, from Batterson St. to Hennessey St.
July 2, 1959	Triggs Street, from Walsh St. to Bullock Avenue
July 2, 1959	Walsh Street, from Batterson St. to Hennessey St.
March 3, 1960	Wayland Avenue, from Pitman St. to its southerly termination
March 3, 1960	Unnamed Gangway, from Peter St. to Ledge Street
Feb. 16, 1961	East George Street, Gano St. to Butler Avenue
April 20, 1961	Haswell Street, Eddy St. to its easterly termination
May 18, 1961	Shaw Street, Langdon St. to Lakeside St.
Aug. 10, 1961	Lakeside Street, from Shaw St. to Everson Street
Aug. 10, 1961	Genoa Street, Fruit Hill Ave. to Taranto St.
Aug. 10, 1961	Corsica Street, from Fruit Hill Ave. to Genoa St.
Feb. 15, 1962	Shaw Street, easterly line of Lakeside St. westerly to its westerly termination

March 1, 1962	Unnamed Gangway, east of Havana St. westerly to the City Line
Feb. 20, 1964	Thurston Street, Stamford Ave. to the westerly line of Potter Drive
March 19, 1964	Molter Street, from Service Rd #10 to Lakeview Drive
March 18, 1965	Lynde Street, from Longwood Ave. to its easterly termination
June 2, 1966	Concord Street, from Cemetery St. to Overpass

SUMMARY TO OCTOBER 1, 1966

The following table shows type of pavement, lengths and areas:

<u>TYPES OF PAVEMENT</u>	<u>LENGTHS MILES</u>	<u>AREA SQUARE YARDS</u>
Reinforced Concrete	0.170	3,101.0
Bituminous Concrete (curbed)	200.536	3,368,539.9
Bituminous Conc. (not curbed)	7.098	122,606.0
Sheet Asphalt (curbed)	59.144	1,464,489.6
Sheet Asphalt (not curbed)	0.300	4,195.0
Bituminous Macadam (curbed)	93.208	1,442,520.0
Bituminous Macadam (not curbed)	1.806	29,996.0
Asphalt Blocks	0.119	958.0
Granite Blocks	2.556	39,428.8
Waterbound Macadam (curbed)	1.601	29,545.0
Waterbound Macadam (not curbed)	0.580	6,237.0
	367.118	6,511,616.3
Received (not improved)	2.750	
Total	369.868	

The following work has been completed during the year-namely:

Streets Paved with New Material	39,421 Linear Feet
Bituminous Concrete Pavement Laid	117,331 Square Yards

SEWER AND STRUCTURAL SECTION

The duties of this section consist of the preparation of studies, plans, specifications and estimates of proposed Sanitary and Storm sewers, preparation of studies, plans, specifications and estimates of proposed miscellaneous structures and the field engineering and inspection work of all above projects in progress and the computation of final payments to contractors.

All records on the above are filed for future reference and all field record books are filed in fire-proof cabinets. Plans are made on cloth-mounted drawing paper of all sewer construction and all house drainage connections are platted on these plans.

A contract for sewers in various streets by the Capaldi Bros. Corp. dated April 30, 1965 with additions of June 1, June 21, and July 26, was completed October 11, 1965. Final Cost equalled \$108,270.84.

The streets involved are as follows with the completion dates noted:

<u>COMPLETION DATE</u>	<u>DESCRIPTION</u>
June 23, 1965	Kinfield St. from near Barbara St. to Route 6 Freeway Line
June 10, 1965	Verdic Avenue from near City Line to Killingly Street
June 3, 1965	Cavallatti St. from its southerly termination to Farmington Avenue
July 12, 1965	Legion Memorial Drive, from near its southerly termination to Sunset Avenue
July 22, 1965	Clarkson Street and Right of Way
July 27, 1965	Buel Court, from its northerly termination to Cambridge St.
October 11, 1965	Lecia Drive, from Jacqueline Drive to Sunset Avenue
July 19, 1965	Beetle Street, from approx. 220 ft. east of Rushmore Ave. to Rushmore Ave.
August 9, 1965	Aurelia Drive, from Lecia Dr. to Neutaconkanut Road
August 10, 1965	Jacqueline Drive, from Legion Memorial Drive to Neutaconkanut Road
August 12, 1965	Roda Drive, from Lecia Drive to Neutaconkanut Road

A contract for sewers in various streets by Nicholas Capobianco dated November 1, 1965 with addition of Jan. 1, 1966, was completed May 11, 1966. Final cost equalled \$66,222.90.

The streets involved are as follows with the completion dates noted:

<u>COMPLETION DATE</u>	<u>DESCRIPTION</u>
December 14, 1965	Virginia Lane, from near Douglas Ave. to Glasgow Street
January 5, 1966	Gage Street from near Samoset Ave. to Victoria Street

December 20, 1965	Manomet St., from near Samoset Ave. to Victoria Street
March 2, 1966	Galileo Avenue, 12" Storm, near Triggs Memorial Golf Course
January 21, 1966	Galileo Avenue, 18" Sanitary Sewer, from Standish Ave. 136± ft. westerly
January 21, 1966	Galileo Avenue, 12" Storm, Standish Ave.-Across Samoset St. Parking Lot
March 10, 1966	Guelph Street, from its easterly termination to Victoria St.
June 9, 1966	Actinia Street, from Rushmore Avenue to its easterly termination
May 11, 1966	Winfield Court from Winfield Road to southerly termination
May 11, 1966	Winfield Road, from Blackstone Blvd to near Eighth St.
Deleted from Contract	Samoset Ave., from present Plat Line to Galileo Avenue
Deleted from Contract	Victoria Street, from present Plat Line to Galileo Avenue

A contract for relaying a sanitary sewer in Ocean Street, from Oxford Street to Potters Avenue by the V. F. Capaldi Construction Company dated August 1, 1966, is now in construction.

Following are lists of streets for which sewer plans were made for submission to the Public Works Committee of the City Council:

LIST NO. 1

Sewers ordered built by the City Council which are not constructed as of September 30, 1966, exclusive of those contracted for:

City Council
Resolution
and Year

Location

229-1940	Bucklin Street, from near Potters Ave. to Greenwich St.
440-1940	Niantic Avenue, from near Cranston St. to Ackerman St.
293-1951	White Street, from Powell Street to Collyer St.

LIST NO. 2

Sewers petitioned for and referred to the Public Works Committee for further action, from October 1, 1951 to September 30, 1965:

October 2, 1952	Okie Street, from its westerly termination to Bath Street
April 16, 1953	Myra Street, from near Boundary Ave. to Killingly St.
July 1, 1954	Bullock Avenue, from City Line to Dunbar St.
September 2, 1954	Groton Street, from Durfee St. to Powhattan St.
September 1, 1955	Queen Street, from its northerly termination to Cleveland St.
November 3, 1955	Hymer Street, from near Seamans St. to Crandall St.
December 1, 1955	Derry Street, from near Geoffreys Court to Oregon St.
May 3, 1956	Stukeley Street, from its northerly termination to Hartford Ave.
August 2, 1956	Libia Street, from the City Line to Farmington Ave.
February 7, 1957	Maria Street, from Killingly St. to the City Line
June 6, 1957	Cowper Court, from its termination to Messer St.
September 4, 1958	Yorktown Place, from its termination to Linton St.
August 6, 1959	Como Street, from its northerly termination to Ledge St.
March 3, 1960	Wayland Avenue, from East George St. to southerly termination.
March 3, 1960	Unnamed Gangway from Peter St. to Ledge St.
February 16, 1961	East George Street, from new Wayland Ave. to Butler Ave. and in Butler Ave. from East George St. to Pitman St.

February 16, 1961	Howe Street, from Niantic Ave. to Lakeview Dr.
" "	Jordan Street, from Westmore St. to Reservoir Ave.
April 20, 1961	Haswell Street, from approximately 300 feet east of Eddy St. to Eddy St.
August 10, 1961	Genoa Avenue, from near Taranto St. to Fruit Hill Ave.
August 10, 1961	Corsica Street, from near Genoa Ave. to Fruit Hill Ave.
March 1, 1962	Unnamed Gangway east of Havana St. westerly to City Line
May 2, 1963	Clarkson Street, from near Admiral St. to its easterly termination and northerly in Right of Way to Suffolk St.
August 8, 1963	Stillwater Avenue, from near City Line to Brightwood Ave.
October 3, 1963	Hylstead Street, from northerly termination to Pavilion Ave.
December 17, 1964	Neutaconkanut Road, from Sunset Ave. to and including Lot No. 1
March 18, 1965	Lynde Street, from easterly termination to Longwood Ave.
July 1, 1965	Unnamed Gangway (opposite Lynch St.) between Manton Ave. and Atwells Ave.

Sewer Assessments: Sewer Assessments as provided by authority of Chapter 870 of the Public Laws of the State of Rhode Island of 1901 are certified for payment by the Director of Public Works to the City Collector. Special working plans are made and areas and amounts are computed by this office and filed for permanent record.

Sewer System Statistics: In order to make complete the Providence Sewer Statistics up to the end of the Fiscal Year of September 30, 1966, the following extracts from previous reports are herein included and the mileage figures changed to the new totals.

The City is divided into four main drainage areas bounding on the Providence, Woonasquatucket, Moshassuck and Seekonk Rivers.

Combined sewers, discharging both crude sewage and storm water into rivers, were constructed in these areas between the years 1871 and 1890 to a total length of 62.7 miles.

"A" In 1890 a new method handling sewage flow was devised and was called the improved sewer system. From 1890 to 1904, 28.1511 miles of this system were constructed with sizes varying from 6 in. to 110 in. in diameter. This system included the intercepting sewers, designed for the collection of sewage flow from older sewers which heretofore discharged into rivers, which helped toward the elimination of sewage pollution of river and harbor waters. Due to later revisions in construction, the length of the improved sewer system equaled as of September 30, 1966, 28.1014 miles.

"B" In 1872 the first storm sewer construction was started and as of September 30, 1966, a total of 87.6917 miles of sewers for storm water only, have been constructed and discharged into the nearest available pond or stream.

"C" The total length of the so-called regular combined sewers as of September 30, 1966, equals 351.0006 miles.

The total lengths (A+B+C) of all types and sizes of sewers maintained by the Sewer Division of the Public Works Department as of September 30, 1966, equal 466.7937 miles. (Increase this year .7218 mile).

The total lengths of the Improved Sewers and of the Combined Sewers were transposed from 1948 thru 1965. This report corrects these errors.

Included in this mileage are approximately 20,354 manholes, also there are approximately 4,722 inlets and 12,018 basins for collecting surface water and trapping debris before entrance into the sewers.

The normal or dry weather flow of sewage is collected and conveyed to the Sewage Treatment Plant at Field's Point. Tide gates are installed at river outfalls to prevent tidewater or river water from entering the sewers.

The sewage from the Washington Park and Field's Point Districts, drains into a small pumping station equipped with two automatic electrically driven pumps, located on City Land at Field's Point just South of New York Avenue and from there is pumped through a cast-iron force main directly to the Sewage Treatment Plant.

A part of the sewage from the West Elmwood District drains into a small pumping station, equipped with two automatic electrically driven pumps, located on City Land at Reservoir Avenue and Pontiac Avenue and from there is pumped through a cast-iron force main into the Rutherglen Avenue gravity flow sewer.

A comparatively high level sewer collects sewage from the Elmwood and South Providence Districts and flows through gravity sewers, directly to the Sewage Treatment Plant.

Generally, with the exceptions as outlined in previous paragraphs, low level sewers collect the sewage from the remainder of the City Districts, with most of the East Side Sewage flowing through an inverted syphon sewer under the Providence River at India Street, and then the sewage flows by gravity to the large pumping station at Ernest Street. At the pumping station the sewage is lifted approximately 27 feet to the high level sewer in Ernest Street and flows by gravity to the Sewage Treatment Plant.

SEWAGE FOR YEAR FROM CRANSTON, JOHNSTON AND NORTH PROVIDENCE

By special acts of the Rhode Island Legislature, parts of Cranston sewage, and all the North Providence and Johnston sewage are allowed to enter the City of Providence sewer system for treatment and disposal. Sewage costs are billed quarterly and the following shows the amounts billed in our fiscal year 1965-1966.

RECEIVED FROM CRANSTON: (Narragansett Brewing Company):

On Contract dated June 1, 1965, Terms \$102.00 per million gallons, 126,800,000 gallons metered and billed for \$12,933.60.

RECEIVED FROM JOHNSTON: Contract dated March 9, 1956, Terms \$57.00 per million gallons was revised August 15, 1966 to \$103.00 per million gallons, 337,090,300 gallons metered, estimated and billed for \$21,390.95.

RECEIVED FROM NORTH PROVIDENCE: Flow measured and computed to equal 2,940,599,200 gallons. Contract dated September 8, 1959, Terms \$100,000.00 annually, was revised September 26, 1966 to \$103.00 per million gallons. Average daily flow equals 8,056,400 gallons. Total billing was \$102,406.04.

PRIVATE DRAINS: A complete record is made of all sewage drainage installations in private houses and other buildings. These records and record plans are made and filed by the Sewer Section of the Public Works Engineering Office and contain valuable information of interest to property owners, Title Searchers, Etc. All new work is covered by field inspection and must comply with the City Ordinances as to workmanship and materials and the work must be done by Licensed Plumbers or Drain Layers who must prove their qualifications before being issued permits by the Director of Public Works.

In the January session of the State Legislature-Chapter 1661-1945, there was enacted by the General Assembly an Act to simplify the present system of Licensing Master and Journeymen Plumbers for the protection of public health. Sec. 8 (reads as follows) "Nothing in this Act shall prohibit any City or Town from granting a license to any person as a drain layer to engage in the business of laying of drains and cesspools" (with the provision, that it is not required by the holder of a State License).

For the calendar year of 1966, the Director of Public Works issued Licenses to six drain layers and five special for sprinkler system licenses. No list of Licensed Plumbers was received from State authorities. There were approximately 3000 titles investigated for encumbrances of drainage facilities by title company investigators, and 3000 sketches of present drainage installations given to interested parties. (Owners, Plumbers and Drain Layers).

MISCELLANEOUS WORK During the year specifications were written, stencils cut and checked and the bids were tabulated for the following:

<u>BIDS SUBMITTED</u>	<u>DESCRIPTION</u>	<u>ORDERED BY</u>
10-25-65	Building sewers in sundry streets	Sewer Div.
11-1-65	One (1) ton pickup truck	Highway Div.
11-1-65	Screened Sand	Highway Div.
11-8-65	Repairs to Crane, Garbage Incin.	Sanitation Division
11-8-65	Rock Salt	Highway Div.
11-22-65	Liquid Ferric Chloride	Sewage Disposal Div.
11-22-65	Liquid Chlorine	Sewage Treatment Div.
11-22-65	4-2 Wheel Snow Blowers	Highway Div.
12-20-65	Diesel Fuel Oil Grade #2	Highway Div.
12-27-65	2-4 Wheel Graders	Highway Div.
1-3-66	Lime Slurry	Sewer Disposal Div.
1-3-66	1-15,000-3yd Dump Truck	Sidewalk Div.
1-10-66	1-2 Door Sedan	Public Works
1-10-66	1 Sewer Cleaner (mounted)	Sewer Maint. Div.
1-17-66	1 Front End Loader	Highway Div.
2-21-66	1 Brush Chipper	Forestry Div.
2-21-66	2-49,000 Dump Trucks	Highway Div.
2-28-66	1-30,000 Dump Truck (4 yd) (20,000 W inch)	Forestry Div.
2-28-66	1 Portable Compressor (125 CFM)	Highway Div.
3-7-66	One (1) 8800 Stake Truck	Forestry Div.
3-7-66	One (1) Bituminous Paver	Highway Div.
3-21-66	One (1) 30,000 4 yd. Dump Truck	Highway Div.
3-21-66	Asphalt Concrete Mixture	Highway Div.
4-4-66	Gutter Broom Wire	Highway Div.

4-4-66	Two (2) Paving Tool Heaters	Highway Div.
4-4-66	Two (2) 16-yd Refuse Trucks	Sanitation
4-4-66	Two (2) 3 yd Sweepers	Highway Div.
4-11-66	One (1) 10-14 Ton Tandem Roller	Highway Div.
4-11-66	One (1) 4-6 Ton Tandem Roller	Highway Div.
4-25-66	One (1) 30,000 Chassis only for Eductor	Sewer Div.
4-25-66	One (1) 30,000 Chassis Only	Highway Div.
5-16-66	Replacement & Miscellaneous Repairs Sludge Incinerator	Sanitation Div.
6-6-66	One (1) Crawler Bulldozer	Highway Div.
6-6-66	One (1) 10,000 Dump Truck	Highway Div.
6-20-66	Relaying Sewer Ocean Street	Sewer Div.
6-20-66	Two (2) 2 Door Sedans	Public Works Dept.
8-1-66	Two (2) 30" Tide Gates	Sewer Div.

A contract was awarded December 28, 1965 to J & H Electric Co. for Reconditioning Operating Crane at Garbage Incinerator. To date, work in the amount of \$12,273.00 has been done.

A contract was awarded to Clayburn Contracting Corp. on January 12, 1966, for Retubing and Renewals to Boilers #1 and #2 at Garbage Incinerator. This work is now in progress.

A contract was awarded to Westinghouse Elec. Co. on Feb. 14, 1966 for Repairs to Condensers and Turbines at Garbage Incinerator. This work is now in progress.

A contract was awarded July 8, 1966, to Concrete Pre Pakt for stabilization of Soil at Incinerator Garage, but work has not yet been started.

A contract was awarded Aug. 17, 1966, to Leach Refractories Co., Inc. for Replacement of Refractory Arch at Garbage Incinerator Unit #2, but work has not yet started.

A Contract was entered into with Leach Refractories Co., Inc. East Providence, R. I. for repairs and replacement of Hopper Grates, Residue Chute and Ash Conveyors for Garbage Incinerator Unit No. 1 on August 16, 1965, for the bid price of \$36,115.00. This work is now completed at a final cost of \$36,586.60.

A Contract was entered into with Leach Refractories Co., Inc. East Providence, R. I. for partial renewal of refractory linings of Garbage Incinerator Unit No. 1 on October 25, 1965, for the bid price of \$14,249.00. This work is now completed at a final cost of \$19,066.00.

The M. A. Gammino Construction Co. was awarded the contract for construction of the "Fox Point Hurricane Barrier" full co-operation was given by this department in preparation of the plans, any plans submitted were checked over, periodic conferences and inspections are made. The contract was dated May 23, 1961. As of September 30, 1966, the City cost equalled \$3,564,712.53.

The following Engineers are engaged on this project:

United States Army Engineers, Boston, Mass., Including the Real Estate Division.
Engineers, Fenton G. Keyes, Associates, Providence, R. I.
Engineers, Charles A. Maguire & Associates, Providence, R. I.
Geologist & Engineer, Frank E. Fahlquist, Providence, R. I.

Many conferences were held in connection with the Providence Freeways, with the Public Works Department of the State of Rhode Island in regard to the disposal of storm waters from the various highways and all sewer sizes and connections to the City sewers were approved. Some of this work is now in construction.

The various projects are named as follows with the Engineers engaged in the preparation of the Plans and Specifications:

"Classical-Central"	Castellucci, Galli & Planka Associates Providence, R. I.
"Interstate Route 95"	Charles A. Maguire & Associates Providence, R. I.
"Route 6 Expressway"	Edwards and Kelsey, Providence, R. I.
"Weybosset Hill"	C. W. Riva Co., Providence, R. I.
"East Side Randall Square"	Charles A. Maguire & Associates Providence, R. I.
"Seekonk River Crossing"	Charles A. Maguire & Associates Providence, R. I.
"Washington Bridge"	Frank L. Ehasz Associates, Prov., R.I.
"Lippitt Hill"	C. W. Riva Co., Providence, R. I.
"Interstate Route 195"	Castellucci, Galli & Planka Associates Providence, R. I.

All plans made in connection with the sewer basins and inlets required for drainage of new or rebuilt streets were made in this office.

This Division has made studies, prepared preliminary plans, conferred with other City Departments, and consulted with the State Department of Public Works, the Federal Public Roads Administration, and the contract Engineers and Architects, preparing plans and specifications for all Public Works Projects in the City.

Plans submitted by Architects, Private Engineers, the various utilities and contractors were checked over, revised and approved for sidewalk slabs, vaults, bridge crossings and duct installations under or over streets and sidewalks.

Cost accounts, budgets, inventories, sick leaves, vacations, employee data entrances, and terminations were reported to the Finance Department. Payrolls and Requisitions were made up and delivery slips forwarded.

Respectfully submitted,

Robert B. Strong
Deputy Director of Public Works

Mr. Lawrence P. McGarry
Director of Public Works
700 Allens Avenue
Providence, Rhode Island

Dear Mr. McGarry:

Attached hereto is the annual report of the Sanitation Division of the Public Works Department for the fiscal year 1965-1966.

This Division is divided into the following Sections:

Sanitation Administration
Street Cleaning
Sewage Pumping
Sewage Treatment
Refuse Collection and Disposal
Garbage Collection and Disposal

SANITATION ADMINISTRATION

The office personnel handles all the necessary clerical work pertaining to the Refuse Collection and Disposal Section, the Sewage Pumping Station Section and a portion of the work associated with the Sewage Disposal Works Section and Garbage Collection and Disposal Section.

Condensed records from all Sections are maintained and filed in this office for reference.

The expenditures for this Section for the fiscal year were as follows:

ITEM 0	Personal Services	23,133.82
ITEM 1	Services Other Than Personal	863.86
ITEM 2	Materials and Supplies	<u>43.31</u>
	TOTAL	24,040.99

STREET CLEANING SECTION

The expenditures for this section were as follows:

Item 0	Personal Services	260,647.50
Item 1	Services other than Personal	78,175.36
Item 2	Materials and Supplies	<u>1,545.56</u>
TOTAL		340,368.42

This section is responsible for the cleaning of all streets and highways within the City and the maintenance and care of all the trash cans situated both downtown and in the outlying sections of the City.

The streets in the downtown section of the City, bounded by Dyer Street, South Main Street, Washington Row, Union Station, West Exchange Street, Aborn Street, Empire Street, Chestnut Street and Clifford Street are cleaned daily.

The following streets and squares are also cleaned daily:

Broadway from LaSalle Square to Olneyville Square
Westminster Street from Empire Street to Hoyle Square
Weybosset Street from Empire Street to Cathedral Squares
Broad Street from Empire Street to Trinity Square
Atwells Avenue from Aborn Street to Ridge Street
Pocasset Avenue from Olneyville Square to City Line
Willard Ave. from Gay street to Prairie Avenue
Randall Street from Charles Street to North Main Street
Smith Street from State House to Oakland Avenue
Douglas Avenue from Admiral Street to Mowry Street
Plainfield Street from Hartford Ave. to Webster Ave.
Gay Street from Willard Avenue to Blackstone Street
North Main Street from College Hill to Mill Street
Charles Street from Railroad Bridge to City Line
South Main Street from College Hill to Point Street
Wickenden Street from East Street to Power Street
Ives Street from Wickenden Street to Power Street
Governor Street from Wickenden Street to Power Street
Wayland Avenue from Waterman Street to Angell Street
South Angell Street from Wayland Avenue to Butler Avenue
Hope Street from Butler Avenue to Wayland Avenue
Hartford Avenue from Laurel Hill Avenue to Olneyville Sq.
Thayer Street from Brook Street to Waterman Street
Waterman Street from Thayer Street to Brook Street
Cranston Street from Dexter Street to City Line
Potters Avenue from Cranston Street to Dexter Street
Eagle Park Olneyville Square
Randall Square Trinity Square
Wayland Square Washington Square

A crew of men with hand brooms & hand push barrels are assigned to the downtown area and the outlying sections of the City to keep these sections free from debris. 197 trash cans are located throughout these sections. They are emptied twice daily.

All the main arteries in the City were cleaned twice a week. All the streets in the outlying sections were inspected and cleaned by the day and night cleaning crews supplemented by the mechanical sweepers. Additional highway cleaning crews were assigned in cleaning the outlying sections during the spring and fall.

Nine mechanical sweepers were in operation, both day and night. Two new mechanical sweepers were purchased to replace four obsolete ones.

One dual gutter broom sweeper is in service and is capable of cleaning gutters from either side of the sweeper, and is advantageous on one way streets.

Three front end loaders were used to pick up the sweeper dumps and load them in trucks for disposal. Three large trucks were used in the fall to pick up leaves. These trucks are equipped with Elgin Leaf Collectors and have a capacity of 10 tons. An operator and two laborers are needed for this operation.

Two reversible Trailer Mounted Vacuum Loading Leaf Litter Collectors were purchased to help in the removal of leaves from the streets.

An emergency crew was on duty twenty-four hours a day to handle complaints from the general public and to correct conditions outlined in a police report.

A summary of operations for this section follows:

Hand Broom Sweeping	56 Miles
Machine Broom Sweeping	12,800 Miles
Beat Patrol	9,830 Miles
Hand Broom Disposal	477 Miles
Street Container Disposal	3,841 Miles
Machine Broom Disposal	12,027 Miles

SEWAGE PUMPING STATION

This section is charged with the operation and maintenance of three Sewage Pumping Stations in the city. The main station is located on Ernest Street and handles approximately all of the Sewage flow. One of the smaller stations is situated on Reservoir Avenue near the City line, and the other in Harborside Park, Fields Point.

Two hundred million gallons a day is the capacity of the main pumping station on Ernest Street. Electric power to operate this station is supplied from the Garbage Incinerator Plant. Provision has been made for stand-by power from the local power company. The two smaller stations operate automatically and the power to operate them is supplied by the local power company. All stations are in operation twenty-four hours per day.

Expenditures for this section for the fiscal year were as follows:

ITEM 0	PERSONAL SERVICES	70,572.14
ITEM 1	SERVICES OTHER THAN PERSONAL	4,476.10
ITEM 2	MATERIALS AND SUPPLIES	<u>4,020.49</u>
	TOTAL	79,068.73

SEWAGE PUMPING STATION

Following is a monthly tabulation of the electrical power from the Garbage Incinerator used at the Ernest Street Station.

<u>1965</u>	<u>K.W.H.</u>
October	35,400.0
November	28,000.0
December	27,400.0
 <u>1966</u>	
January	49,400.0
February	32,800.0
March	21,800.0
April	29,000.0
May	10,420.0
June	149,410.0
July	95,281.0
August	96,460.0
September	<u>144,050.0</u>
TOTAL	719,421.0

SEWAGE PUMPING STATION

Total monthly flow, in million gallons, for each station, is as follows.

	<u>ERNEST STREET</u>	<u>WASHINGTON PARK*</u>	<u>RESERVOIR AVENUE*</u>	<u>TOTAL</u>
1965	STATION NO. 1	STATION NO. 2	STATION NO. 3	
October	1,143.0	35.0	35.0	1,213.0
November	1,108.0	35.0	35.0	1,178.0
December	1,046.0	35.0	35.0	1,116.0
<u>1966</u>				
January	1,084.0	35.0	35.0	1,154.0
February	1,146.0	35.0	35.0	1,216.0
March	1,237.0	35.0	35.0	1,307.0
April	1,056.0	35.0	35.0	1,126.0
May	1,236.0	35.0	35.0	1,306.0
June	1,223.0	35.0	35.0	1,293.0
July	1,196.0	35.0	35.0	1,266.0
August	1,143.0	35.0	35.0	1,213.0
September	<u>1,230.0</u>	<u>35.0</u>	<u>35.0</u>	<u>1,300.0</u>
TOTALS	13,848.0	420.0	420.0	14,688.0

*Estimated Flow

SEWAGE DISPOSAL WORKS

This section is responsible for the treatment and disposal of all the sewage from the City of Providence, Town of North Providence, Town of Johnston, and wastes from the Narragansett Brewing Co., Cranston, R.I. The Disposal Plant is located in the southerly section of the City near the Municipal Dock at Fields Point.

The following tables show the statistics for the Disposal Plant for the fiscal year 1965-1966.

Estimated Population served by the Plant

Providence	248,000
Johnston	2,200
North Providence	12,000
	<u>262,200</u>

SEWAGE FLOW

MILLION GALLONS

Providence	11,689.92
Johnston	335.70
North Providence	2,897.85
Cranston (Narragansett Brewing Co.)	126.82
TOTAL SEWAGE FLOW	<u>15,050.29</u>

SUMMARY OF OPERATIONS

Total flow of Sewage	15,050.29	M.G.
Average Daily Flow	41.69	M.G.
Max. Daily Flow (Sept. 15, 1966)	89.17	M.G.
Min. Daily Flow (July 17, 1966)	20.34	M.G.
Total Air Used Aeration	16,233.17	Mil. Cu. Ft.
Liquid Chlorine	684.77	Tons
Ferric Chloride	165.30	Tons
Lime as Chemline Slurry	1,531.60	Tons
Total Lime Used	1,531.60	Tons
Grit Removals	433.45	Tons
Sludge Cake Incinerated	23,434.30	Tons
Ash Removed From Incinerator	4,493.40	Tons
Fuel Oil Used for Operating Sludge Incinerator (No. 2 Oil)	279,252.00	Gals.

Electric Power used from the Garbage Incinerator

<u>1965</u>	<u>K.W.H.</u>
October	27,300
November	35,400
December	15,200
<u>1966</u>	
January	3,400
February	2,500
March	4,800
April	3,100
May	4,500
June	1,200
July	1,200
August	1,200
September	2,500
TOTAL	102,300

The expenditures for the year were as follows:

ITEM 0	Personal Services	281,303.83
ITEM 1	Services Other than Personal	203,726.12
ITEM 2	Materials and Supplies	149,001.87
ITEM 5	Capital Outlay Equipment	81.35
	TOTAL	<u>634,113.17</u>

Supervisory services of the Sewage Disposal Works by the Engineering firm of Metcalf & Eddy were terminated as of December 1965.

Recommended improvements to the Sewage treatment facilities and the construction of a nine hearth Nichols Herreshoff Sludge Incinerator as called for in contracts 1963-1 and 1963-2 (WPC-APW-RI-24) were completed with the performance test of the new incinerator in December of 1965.

The overall general efficiency of treatment continued to show improvement during the fiscal year 1965-1966. Satisfactory chlorine control of bacteria was maintained throughout the year. Seasonal removals of B.O.D. and suspended solids continued to be very good, and reflect good laboratory control of the treatment processes.

Considerable data was obtained and evaluated as a result of the agreement between the University of Rhode Island, The City of Providence Department of Public Works, to conduct a joint research project to investigate the factors contributing to the bulking of the activated sludge at the Providence Sewage Disposal Works. Work on this project still continues at this time under the supervision of Professor Henry Campbell, of the University of Rhode Island and his Assistant Doctor Poon.

(Cont'd)

During the year, mechanical breakdown, resulting from normal operational wear and tear, were repaired by plant personnel, and several electrical failures of equipment were corrected. Outstanding in the repair department was the repair and reinforcing of the two by-pass gates in the distribution chamber to the aeration channels. This work was accomplished with the help of the Bridge Department.

GARBAGE COLLECTION AND DISPOSAL

New bearings were installed in forced draft and induced fans during the year. The circulating water pump for the turbine water was taken down and completely overhauled. A routine maintenance program is followed on the upkeep of the overhead electric cranes in Plant No. 1 and #2. New charging doors were installed on all five hoppers a number of times during the year. A preventative maintenance program is in operation on all equipment in both plants which is carried out by Incinerator employees.

A new Joy Air Compressor Serial No. 47467 was purchased for the Incinerator plant. The installation and all necessary piping was done by Incinerator employees. New boiler gates were made and installed four times during the year by our employees. The ash conveyor was overhauled during the year. This work consisted of installation of all new chain, bearing and wheels.

Two new oil pumps were installed in Plant No. 1 and two installed in Plant No. 2. These new electric pumps were installed in place of obsolete steam equipment. The necessary installation and all piping was done by our employees. Necessary repairs to the iron and brick work in the combustion chamber and fire box of Plant #2 was made four times during the year. A 20 H.P. motor was installed in the induced draft machine in Plant No. 1 to replace the broken turbine. Two 40 H.P. motors and two 20 H.P. motors burned out in the electric crane in plant No. 1 during the year. These motors were taken out and repaired each time and put back in service. A Water pump in Plant No. 1 broke down and as this was an emergency it was necessary to take a pump from Plant No. 2 and install it in place of the broken pump. The broken pump was repaired and put back in service.

GARBAGE COLLECTION AND DISPOSAL

The following is the K.W.H. furnished the Sewage Disposal Works, the Municipal Garage, The Sewage Pumping Station, the Highway Garage and Station Power.

1965	<u>Sewage Disposal</u>	<u>Sewage Pumping</u>	<u>Municipal Garage</u>	<u>Highway Garage</u>	<u>Station Power</u>	<u>Total</u>
Oct.	27,300	35,400	13,715	12,100	78,485	167,000
Nov.	35,400	28,000	18,600	19,280	46,720	148,000
Dec.	15,200	27,400	17,200	11,760	53,440	125,000
<u>1966</u>						
Jan.	3,400	49,400	18,200	18,300	78,700	168,000
Feb.	2,500	32,800	15,200	20,030	66,470	137,000
March	4,800	21,800	16,200	20,250	58,950	122,000
April	3,100	29,000	15,000	19,470	99,430	166,000
May	4,500	10,420	15,800	14,280	84,000	129,000
June	1,200	149,410	14,770	10,320	100,300	276,000
July	1,200	95,281	11,449	10,770	67,300	186,000
August	1,200	96,460	15,700	10,340	60,300	184,000
Sept.	<u>2,500</u>	<u>144,050</u>	<u>8,000</u>	<u>15,350</u>	<u>89,100</u>	<u>259,000</u>
TOTAL	102,300	719,421	179,834	182,250	883,195	2,067,000

GARBAGE COLLECTION AND DISPOSAL

The following is the total amount of Garbage and Refuse disposed of by this department From October 1965 to September 1966.

<u>1965</u>	<u>Garbage (Tons)</u>	<u>Rubbish (Tons)</u>
October	2,861.42	2,664.80
November	2,881.74	2,138.30
December	2,895.78	2,415.80
<u>1966</u>		
January	2,700.60	2,192.60
February	2,580.05	2,088.50
March	2,788.84	2,227.25
April	2,794.91	2,297.50
May	2,915.01	2,297.50
June	3,093.15	2,405.50
July	2,760.52	2,225.00
August	2,914.12	2,327.60
September	2,863.96	2,254.60
TOTAL	<u>34,050.10</u>	<u>27,534.95</u>

Daily average for collection based on 313 working days 108.78
Daily average for disposal based on 365 working days 168.72

The Garbage collection and Disposal Section is charged with the collection and disposal of Domestic Combustible Refuse and the disposal of Commercial Combustible refuse. The Domestic refuse is collected by City trucks and transported to the incinerator for disposal. All commercial refuse is transported to the incinerator in private vehicles. Electric power is generated at the Garbage incinerator by means of waste heat boilers and Turbo-Generators. The power generated is used at the Sewage Disposal Works, Sewage Pumping Station, Highway Department Building, Municipal Garage, Garbage Incinerator and the Sanitation Maintenance Garage.

A fleet of twenty trucks, with special load packing bodies, is used in making the collection of domestic garbage and combustible household rubbish. Two collections per week are made from every residence in the City.

(Cont'd)

Two Garbage Incinerators, each with a capacity of 160 tons per day, are situated at 100 Terminal Road in Providence. Only one unit is in operation at a time, the other is on stand-by. Each unit has two steam boilers and the steam generated is used to generate electric power to drive auxiliary machinery at the plant and to heat the Incinerating Plant, the Sanitation Garage, and several buildings at the Sewage Disposal Works. The two Turbo-Generators, each with a rating of 1250 K.W. are operated one at a time keeping 2nd unit on stand-by. Both the Incinerator and Power Plant are in operation twenty four hours per day.

The expenditures of this section for the fiscal year were as follows:

ITEM 0	Personal Services	670,474.65
ITEM 1	Services other than Personal	117,446.44
ITEM 2	Materials and Supplies	28,458.88
ITEM 3	Special Items	-----
	TOTAL	816,379.97

<u>TOTAL POWER GENERATED</u>	<u>K.W.H.</u>
Average Daily Distributed Load	5,663
Average Daily Distributed Load to Sewage Disposal Works	2,802
Average Daily Distributed Load to Sewage Pumping Station	1,971
Average Daily Distributed Load to Municipal Garage	495
Average Daily Distributed Load to Highway Garage	499
Average Daily Distributed Load to Garbage Incinerator	2,419

The monthly ash totals from the Incinerator during the year were as follows:

<u>1965</u>	<u>Tons</u>
October	1,010.00
November	1,016.00
December	1,091.00
<u>1966</u>	
January	1,010.00
February	943.00
March	992.00
April	997.00
May	997.00
June	1,105.00
July	1,095.00
August	1,115.00
September	1,083.00
	<u>12,454.00</u>

TOTAL

REFUSE COLLECTION AND DISPOSAL

The Refuse collection and Disposal Section is responsible for collection and disposal of all non-combustible refuse from the residential sections of the city once each month. The City is divided into twenty routes. Six trucks, six drivers and twelve laborers are used in the collection.

All materials collected are disposed of in a sanitary fill land-dump situated on Manton Avenue near the junction of Chalkstone Avenue in the City. This section has a bulldozer with an operator working at this location to maintain a clean disposal area. One laborer is also assigned to the dump. The dump site is open five days a week during the year.

The trucks used are 16 cu. yd. load packers and are rented from the Shop and Stores Revolving Fund.

This Section also collects non-combustible refuse from Fire and Police Stations, City Buildings and Public Libraries.

ITEM 0	Personal Services	91,726.79
ITEM 1	Services other than Personal	31,313.00
ITEM 2	Materials and Supplies	160.17
	TOTAL	123,199.96

REFUSE COLLECTION and DISPOSAL

The total cubic yards collected for the year follows:

<u>1965</u>	<u>TOTAL</u>
October	3,984
November	4,096
December	4,416
<u>1966</u>	
January	4,096
February	4,032
March	4,032
April	3,760
May	4,016
June	4,176
July	4,208
August	4,128
September	4,128
TOTAL.....	49,072

SANITATION DIVISION REVENUE

The revenue for this division during the fiscal year was as follows:

SEWAGE PUMPING STATION	-----
SEWAGE DISPOSAL SECTION	168,422.72
GARBAGE COLL. & DISP.	23,504.53
REFUSE COLL. & DISP.	<u>287.50</u>
TOTAL	192,214.75

RECOMMENDATIONS

1. The laboratory personnel in the Sewage Disposal Plant have made extensive studies on the Sphaerotilus and Geotrichum growths that developed throughout the plant, and have been causing operational difficulties over the past few years. These studies were taken over by the University of Rhode Island in accordance with a contract dated December 6, 1965. The University should be requested to outline their plan of attack on this problem complete with time table and completion date. This is necessary for the City to control expenditures and to determine what advantages, if any, are to be gained by continuing this expense.
2. In this era of radioactivity, serious consideration should be given to the installation of a warning system for the detection of radioactive isotopes in the Sewerage System of the City. This warning device should be installed at some point in the Sewerage System where the employees at the Pumping Station and the Sewage Disposal Plant would receive advance warning of the presence of these dangerous isotopes in the flow of sewage. Radioactive isotopes are being used more and more in medicine and industry and it is very possible that some of them could inadvertently find their way into the Sewerage System.
3. Erect a wire fence with two gates at the entrance and exit of the Garbage Incinerator. These gates could be closed during the hours when no dumping is allowed at the Incinerator.
4. Enter a service contract with Builders Providence to service the flow control instruments located in the Sewage Disposal Plant and the Sewage Pumping Station.
5. Initiate a study for use of Chemical Polymers to replace either / both Ferric Chloride or / and Lime in the conditioning of sewage sludge to improve vacuum filtration and realize a worth while saving in the cost of chemicals and fuel oil.

(Cont'd)

6. Replace the present ash trucks used for removal of ashes from both the Refuse and Sludge Incinerators with trucks having more adaptable and larger bodies to reduce the number of trips necessary for disposal of ashes to the City Dump. Should the distance to a newly located dump be increased, the above or an additional truck and driver would become necessary
7. The position of electrician should be added to the personnel of the Sanitation Division to perform electrical maintenance in the Sewage Disposal, the Refuse Incinerator, and the Sewage Pumping Station installations.
8. Further the study required toward the acquisition of a new Refuse Incinerator. This to be in the form of a preliminary survey to include: recommended design, size, space, air pollution control, and operating personnel requirements; general over-all layout of equipment; cost estimates for equipment, installation, and operation; and a pictorial representation of the project for assimilation of the proposal.
9. Provision must be made to incinerate sewage grit; this entails a study to determine the most economical method of disposal by use of a feed mechanism to the present Sludge Incinerator or the acquisition of a new Grit Incinerator.
10. Another dump site must be obtained.
11. Modify present raw sewage barminutor by-pass channel to prevent accumulation of grit in front of the bar screen.
12. Purchase a mobile paint spraying outfit for painting outdoor equipment located in the Sewage Disposal Plant; for more efficient use of material, time, and personnel.
13. The "filter building" and the "blower building" are in acute need of repairs. This condition is a constant source of danger to personnel, especially due to falling bricks.
14. The Incinerator Fees should be reviewed and increased to the same level set by some of our neighbors such as Pawtucket.
15. The cooperation of the law enforcement agency should be obtained for the enforcement of the Ordinance for the collection, conveyance, and disposal of waste materials in the City of Providence.

Respectfully submitted,

Gommaire Domaige, P.E.
Chief of Sanitation

CONSTRUCTION AND MAINTENANCE DIVISION

Mr. Lawrence P. McGarry
Director of Public Works
700 Allens Avenue
Providence, Rhode Island

Dear Sir:

Following is the Annual Report covering activities of the Construction and Maintenance Division for the Year Ending September 30, 1966. This Division consists of the Construction and Maintenance Administration and the following Sections: Highway, Bridge Maintenance, Draw Bridge Operation, Sidewalk and Curbing, Snow Removal, Sewer Construction and Maintenance, Public Works Shops and Stores.

The expenditures of the administration section were as follows:

Item 0 Personal Services	9,907.56
Item 1 Services other than Personal	882.60
Item 2 Materials & Supplies	<u>4.90</u>
	10,795.06

HIGHWAY SECTION

The main duty of this section is the Maintenance of approximately 340 miles of paved streets, including the repairing, patching seal-coating, surfacing, resurfacing or reconstruction of highways and the setting, resetting or replacing of granite curbing. This section also constructs new highways when ordered and performs miscellaneous jobs for other sections of the Department of Public works as well as for other City departments.

EXPENDITURES

Item 0 Personal Services	712,478.16
Item 1 Services other than Personal	163,968.53
Item 2 Materials & Supplies	<u>116,540.98</u>
Total	992,987.67
Revenue	57,910.10

DRIVEWAYS & CURBING

Driveways altered (Narrowed)	1	2' Circular Corner Set	408
Driveways Constructed	230	S.B. Corners Set	61
Driveways Widened	49	Curbs Set & Reset	2,143
Driveways closed	51	Driveways Relocated	16

Received Streets Repaired & Surfaced 1965-1966

STREET

LOCATION

Chace Drive	Chace Ave. to Dead End
Jewell St.	Plainfield to Killingly
Benedict St.	Cranston to Salem St.
Pasteur St.	Huxley to Tyndall Ave.
Oakdale St.	Huxley to Dead End
DiMario Drive	Jasper to No. Termination
Jones St.	Bradford to Bond
Redwood St.	Huxley to Dead End
Pallas St.	Kenyon to Carpenter St.
Whittaker Pl.	Westminster to Fountain St.
Fones Alley	Prospect to Brown St.
Paul St.	Charles to Windmill Sts.
Elbow St.	Ship to Chestnut St.
Black St.	Orms to Hawes St.
Selkirk St.	Smithfield Ave. to City line
B assett St.	Chestnut to Ship St.
Moulton St.	Westminster to Maiden Lane
Yale Ave.	Carleton to Lynch St.
Hendrick St.	Academy to Erastus St.
Chaucer St.	Carleton to Lynch St.
Carleton St.	Chaucer to Chalkstone Ave.
Joslin St.	Amherst to Kossuth St.
Maynard St.	Sisson to Unit to B rushill St.
Butler St.	Pitman to Angell St.
Dutton St.	Atwells to Fowler St.

Cont'd)

<u>STREET</u>	<u>LOCATION</u>
Grosvenor St.	Chalkstone to Pleasant Va. Pkwy.
Hillcrest Ave.	Freedom to Chalkstone Ave.
Regent Ave.	Harold to River Ave.
Frost St.	No. Main to Concord
Chad Brown St.	Pinehurst to Tyndall Ave.
Amity St.	Pemberton St. to Westerly Term.
Regent Ave.	Lisbon to Easterly Term.
Lindy Ave.	Chalkstone to Glover St.
Sawyer St.	Elmwood to Dead End
Wainwright St.	Admiral to Sunbury St.
Matilda St.	No. Main St. to Nashua St.
General St.	Hazel to Admiral St.
Cemetery St.	No. Main to Frost
	Eagle St. Bridge
Berkley St.	Harold to Lisbon St.
Kepler St.	Academy to Easterly Term.
Lennon St.	Mt. Pleasant to Smith St.
Dryden Lane	B ranch Ave. to Printery
Rutland St.	Elmwood Ave. to Bucklin St.
Gillen St.	Charles to Easterly Term.
Loreto St.	Charles St. to Commodore St.
Cornwall St.	Hawkins to Cheshire St.
Woonasquatucket Ave.	Prov. City line-550 ft. so. of City Line
Salem St.	Potters Ave. to Waldo St.
Parade St.	Cranston St. to Hollis St.
Puritan St.	Potters to Huntington Ave.

(Cont'd)

<u>STREET</u>	<u>LOCATION</u>
Crescent St.	Adelaide Ave to Reservoir Ave.
Veazie St.	Branch Ave to Woodward Rd.
Alvin St.	Reservoir Ave to Crescent St.

RECEIVED STREETS REPAIRED & SURFACED INCOMPLETE AS OF 9/30/66

<u>STREET</u>	<u>LOCATION</u>
Harriet St.	Sayles St. to Mystic St.
Gladstone St.	Broad St. to Baxter St.
Goggeshall St.	Douglas Ave. to Mowry St.
Sayles St.	Ocean St. to Prairie Ave.

RECEIVED STREETS STARTED 1964-1965 COMPLETED 1965-1966

<u>STREET</u>	<u>LOCATION</u>
Whitehall St.	Union to Hillwood St.
Hillwood St.	City Line to Whitehall St.
Farm St.	Academy to Webb St.
Glover St.	Mt. Pleasant to Home Ave.
Eastwood Ave.	Heath to Merino St.
Chace St.	No. Main St. to Greateon Dr.
Knowles St.	Abbott to Pleasant St.
Pleasant St.	No. Main to Camp St.
Rowan St.	Glover St. to Chalkstone Ave.

UNRECEIVED STREETS REPAIRED & SURFACED 1965-1966

<u>STREET</u>	<u>LOCATION</u>
Swan St.	Eddy St. to Dead End (Rt. 95)
Saxe St.	Glenbridge to Dead End

UNRECEIVED STREETS (Cont'd)

STREET

LOCATION

Gray St.

Fowler to Dead End

Huldah St.

Magnolia to Dead End South

Unnamed Gangway

Magnolia to Dead End North

East George St.

Governor to Dead End

Gilbert St.

Hammond to Powhatan St.

Hillard St.

Manto to Pelham St.

DePinedo St.

Job to Dead End

Legg St. (Abandoned)

Batcheller to Swift
High to Point 100' North

Polly St.

Atwood to Cumerford St.

Gangway

Carleton Court to Dead End

Nolan St.

Bernon to Dead End

Hempstead St.

Elmwood to Dead End

Touro St.

Lombardi to Silver Spring

B ay St.

Allens to Poe St.

Mattie St.

Glenbridge to Melissa

Dixon St.

Elmwood to Dead End

Deerfield Terrace

Alger to Dead End

Donelson St.

Salina to Easterly Term.

Nashua St.

Frost to Cemetery

Goff St.

Eddy to Easterly Term.

Buell Court

Cambridge to Dead End

Ardwick St.

Woonasquatucket to Fruit Hill

Sterling Ave.

Cumerford St. to Dead End

MISCELLANEOUS WORK

During the past year the Highway Section performed services for the Engineering Division, Bridge Maintenance, Draw Bridges, Harbor Master, Forestry, Public Building, Sewer Maintenance, Sewage Disposal, Garbage Incinerator, Municipal Wharf, City Sergeant and the Park, Recreation, Health, Welfare, Police and Fire Department, Hurricane Barrier, Chapin Hospital, Rhode Island Hospital, Municipal Garage and Traffic Engineering. A list of the work performed is as follows:

Graded dumps at Fields Point, Gano Street, Mount Pleasant Avenue, Smith Street, Manton Avenue and Hartford Avenue.

Erected and removed bandstands for Columbus Day, Armistice Day and Labor Day Celebrations, also for dedications and memorials.

Assisted in the decorations for the City of Providence for Christmas and Fourth of July celebrations.

Set up and removed equipment at the various voting places in the City of Providence for the Board of Canvassers.

Removed rubbish from City Hall.

Worked on the removal of large sand hill on leased land by the Sun Oil Company at Fiedls Point.

Resurfaced roads in Roger Williams Park.

Resurfaced parking area at new greenhouse in Park.

PERMANENT MAINTENANCE

Elmwood Avenue
Eddy Street
Broad Street
Broadway
Hope Street

Dyer Street
Dorrance Street
Smith Street
North Main St.
Parking lot. - Roger Wms. Park

LAWNS AND GRASS PLATS MAINTAINED

Oakland Avenue
Kingley Avenue
North Main St.
Franklin Square
Elmgrove Avenue
Chad Brown St.
Atwells Avenue
Highway Bldg. Grounds

Eighth St. & Lorimer Avenue
Slater Ave. & Goldsmith St.
Sewer Disposal Grounds
Eddy St. & Ship St.
Market Square
Cemetary Street
Pitman Street
Public Works Admin. Bldg. Grds.

FOX POINT HURRICANE BARRIER

ORGANIZATION CHART

CHIEF ENGINEER

Joseph J. Campo

PUMPING STATION Operators 5

BLDG. MAINT.
Crew #4

EQUIP. MAINT
Foreman 1
Crew #8

SEWER GATES
Foreman 2
Crew 10

GROUNDS MAINT.
Foreman 1
Crew #4

ELECTRICAL MAINT.
General
Electric 2

STREET GATES
Foreman 2
Crew 11

The Hurricane Flood Protection for the City of Providence was authorized by the Flood Control Act, dated July 3, 1956, Public Law 85-500, 85th Congress and is located across the Providence River 900 Feet upstream from its confluence with the Seekonk River at Fox Point. It extends from the expressway at Allens Avenue on the West across the Providence River to Traverse Street on the east.

The structure was constructed under three contracts, completed January 31, 1966 and accepted by the City on March 19, 1966.

The protection for Providence consists of a river gate section, a pumping station, barrier wall sections and earth and rock fill dikes.

The hurricane protection system included about 700 feet of concrete structures across the Providence River, which includes a 50 ft. concrete cellular structure in the West abutment, a 214-ft. pumping station, a 180 ft. center river barrier, a 148 ft. river gate section, and a 108 ft. concrete wall section on the east abutment between the barrier wall section and the land dike. The pumping station includes five vertically mounted axial flow 119-inch pumps with a total capacity of 7,000 c.f.s. at a 20 ft. head. In the westerly end bay of the pumping station, two 10 ft. by 15 ft. gates for the control of flows into the cooling water canal are located. The river gate section includes three 40 ft. by 40 ft. tainter gates with sill at elevation -15.0 mean sea level.

The west dike section is approximately 1,400 ft. long and includes 1,250 feet of an earth and rock fill section with armor

stone protection, a concrete wall section and the Allens Avenue and Narragansett Electric Company Vehicular Gates.

The east abutment, approximately 780 feet long, includes the South Main Street Vehicular Gate and 730 feet of an earth and rock fill section with stone protection.

The hurricane protection project provides complete protection to about 280 acres in the downtown business and industrial sections. The project provides a high degree of protection from a hurricane of design intensity, with a stillwater flood level of 20.5 feet, mean sea level.

During the year the Pumping Station has been operated monthly to maintain working order. In addition to monthly tests, the pumps have been subjected to heat bearing tests to insure working order for typical use of said pumps during Hurricane Action.

The Operation and Maintenance of the barrier requires the cooperation of various sections of the Public Works Department, namely The Engineering Personnel, the Highway Section, Sewer Section and the Bridge Section.

The station has been successfully operated by City Personnel during a coastal storm as preventative action against flooding.

The Engineering Personnel supply the required work force for operation of the Pumping Station.

The Highway Curb crews supply the required work for maintenance of the street gates.

The Bridge Section is assigned the station heavy equipment maintenance and will be made available when necessary.

It is noted that all personnel are permanently assigned to other duties.

In addition to Public Works Maintenance a contract with General Electric Company provided the required electrical equipment maintenance.

Because the facility is new, a part-time operating and maintenance staff has proven satisfactory; however, as the equipment ages it is recommended that serious consideration be given to assignment of a permanent staff complete with a separate allocation of funds.

BRIDGE MAINTENANCE SECTION

Eleven (11) men comprising the Bridge Maintenance Section perform the most varied tasks of all Public Works personnel.

Mainly concerned with structural maintenance and reconstruction of forty (40) bridges varying in size and complexity, two (2) viaducts and eight (8) culverts including timber, concrete and steel repairs and maintenance, the Bridge section maintains twenty (20) additional bridges for sidewalk snow removal.

In addition to their main task the section performs difficult structural repairs for all sections of Public Works.

Also, the Bridge Section erects heavy duty barricades and maintains rail switches and tracks at West River Park and Port facilities.

The expenditures of the section were as follows:

ITEM 0	Personal Services	42,877.85
ITEM 1	Services other than Personal	5,743.77
ITEM 2	Materials and Supplies	7,309.71
TOTAL		\$55,931.67
REVENUE		16.04

Of the aforementioned 50 structures 18 required work this year and are as follows:

1. Park St. Bridge. repaired pileing, rebuilt 1/3 of bridge sub-deck and roadway.
2. Smith St. Bridge. North side of bridge- 20 new wood piles; repaired roadway, rebuilt north sidewalk.
3. Charles St. Bridge. Rebuilt east and west wood sidewalks with heavier wood construction also eight wood sub-deck sections of roadway - rebuilt 2 wood approach fences.
4. Point St. Bridge. Replaced worn angle iron on bridge roadway expansion joint. Replaced rotted wood planks in sub-deck of bridge roadway, cleaned and greased all mechanical parts of draw span and machinery. Replaced worn sidewalk planking. Cleaned and painted steel fences. Replaced window glass (27 panes broken by vandals in engine room house).
5. Point St. Viaduct. Repaired roadway expansion joints also concrete failures on structure.
6. Red Bridge. General maintenance of gears and machinery repairs, greasing and oiling. Replaced broken gear, replaced worn sidewalk planking, repaired chimney on engine-room house.

7. Merino Bridge. Glenbridge Avenue stud welded, steel grid-deck of roadway replaced worn wood planking on bridge sidewalk.
8. Merino Footbridge. Replaced worn wood sidewalk planking, repaired wood fences on bridge.
9. Pettis St. Bridge. Repaired wood sidewalk, painted wood approach fences.
10. Leland St. Footbridge. Repaired wood pileing, repaired wood fences on bridge, replaced worn sidewalk planks.
11. Roger Williams Avenue. R.R. Bridge. Replaced sidewalk planking.
12. Adelaide Ave. Footbridge... over railroad: replaced worn sidewalk planking, cleaned and painted approach fences.
13. Veazie St. Bridge. Cut and removed asphalt: Power washed decayed concrete on subdeck. Poured new concrete subdeck.
14. Eagle St. Bridge. Cut and removed asphalt: power washed decayed parts of concrete on subdeck: Poured new concrete.
15. Wanskuck Bridge - Branch Avenue. repaired concrete abutment walls: repaired broken concrete slabs on bridge sidewalks.
16. Delaine St. Bridge. Repaired abutment walls with concrete.
17. Reservoir Ave. Bridge. Repaired loose steel angles and tread plates on roadway expansion joints.
18. Tar Bridge Manton Ave. Repaired loose steel angles and tread plates on roadway expansion joints.

Repaired and erected barricade fences at Abrams St., Clara St., Celia St., Cavallatti St., Earle St., Social St., Virginia Lane., Newberry St., Marconi St., Eastwood Ave., 160 ft. metal guard rail ship and Eddy Sts., 14 metal guard posts - Shipyard St.

Repaired and painted barricade fences New York Ave., Hillard St., Greeley St., Adelaide Ave., Humes St., Riverdale St., Whitford Ave., Freedom Rd.

Repaired iron fences, Canal St. Repaired chain link fences Clarkson St. West Exchange St. Laurel Hill Ave. and What Cheer Ave.

Rebuilt chain link gate's Troy St. Rebuilt iron fence. Smith St. Bridge, Repaired iron fence, Point St. Bridge.

BRIDGES CLEANED & PAINTED

Eagle Street Bridge
Charles Street Bridge

Randall St. Bridge
Veazie St. Bridge

SNOW REMOVAL

Removed snow and sanded sidewalk on all City owned bridges. Plus all sidewalks on bridge over Route 95 and areas under Route 295 in City. Also sidewalks on Westminster St. and Broadway over Roberts Expressway.

SERVICES RENDERED OTHER DEPARTMENTS

Sounded River, at Municipal dock with Department of Public Works Engineer. Cleaned and painted engine room. Point St. Bridge.

Cleaned and painted overhead doors windows and doors basement of Public Works Administration building.

Constructed bumpers for garbage pits at incinerator.

Repaired water leak in line to hydrant at Municipal Dock.

Rigging and lubrication work at Hurricane Barrier.

Replaced split rail and rotted ties R.R. Crossing on Ernest Street, Fields Point.

Repaired concrete wall and steel gate in filter bed, at Sewer Disposal.

Erected wood covers over sewerage canal at Pumping Station Ernest St.

Rebuilt retaining wall, West Exchange and Atwells Ave.

Pedestrian Mall, Masonary and carpenter work.

West River Industrial Park railroad general maintenance.

SIDEWALK AND CURBING

This section is responsible for the condition of all sidewalks in the City. It serves notices on property owners for the repair, construction or reconstruction of sidewalks; issues licenses and permits to sidewalk contractors for repairs, construction or reconstruction of sidewalks; inspects all sidewalk work; makes temporary minor repairs to sidewalks; and is responsible for the posting and maintenance of street signs and memorial square signs.

THE OPERATIONS OF THIS SECTION WERE AS FOLLOWS:

Sidewalk contractor's licenses issued.....	50
Notices served to build or repair.....	209
Built or repaired.....	90
Permits issued to build or repair.....	419
Sewer openings inspected.....	195
Construction of new curb openings for driveways inspected.....	342
New Memorial Square approved by Council.....	2
Memorial Square Signs repainted & relettered.....	124
Sidewalks inspected damage due to tree roots.....	168
Sidewalks inspected after installation of new water service.....	217
Streets abandoned by Council and signs erected.....	16
Washout depressions inspected and repaired.....	238
Sidewalk claims investigated.....	42
Street signs repainted & relettered.....	750
Street names changed by Council and new signs erected.....	3
New street names approved by Council.....	6
Pole openings inspected.....	73
Total Lin. Ft. of brick sidewalks built.....	208
Total Lin. Ft. of Bituminous Sidewalks built.....	21,341
Total Lin. Ft. of cement sidewalks built.....	7,824

SEWER CONSTRUCTION & MAINTENANCE SECTION

This section is responsible for the inspection, maintenance, cleaning, repairing, construction and reconstruction of the sewers and sewer appurtenances, such as, manholes, catch basins, inlets, etc., of the sewer system.

EXPENDITURES

ITEM 0	Personal Services	263,699.77
ITEM 1	Services other than Personal	54,585.42
ITEM 2	Materials and Supplies	<u>20,126.41</u>
TOTAL		\$338,411.60
Revenue		75.00

MAINTENANCE WORK PERFORMED

Box chute covers replaces	7
Box Chutes repaired and rebuilt	33
Catch basin covers replaced	2
Catch basin frames replaced	3
Catch basin repaired & rebuilt	19
New catch basins built	5
Catch basins brought to grade	1
Catch basin frame & covers reset	12
Manhole covers replaced new & old	8
Manhole frames replaced	10
Manhole frames & Covers reset	11
Manholes rebuilt and repaired	7
Manhole covers & grates raised to grade	20
Inlet stones replaced	49
Inlet stones repaired	5
Inlet stones reset	2
Traps replaced	2
Gutter grates replaced frame & cover	1
Inlet stones replaced	48
Inlet stones repaired	5
Inlet stone reset	1
Traps replaced	2
Gutter grate replaced, frame & cover	3
Gutter grate frame & covers repaired & reset	17
Sewer lines examined	491
Gutter grates built	5
Gutter grates raised or lowered to grade	8
Roots removed from basin walls	2
Replace broken connections	2
Remodeled catch basins	8
Repair broken sewer line	1

Basins, gutter grates and sumps cleaned: Deposits removed, lines flushed, and complaints received:

Catch basins cleaned	15,236.99	cu. yds.
85 Sumps cleaned	184 $\frac{1}{2}$	cu. yds.
998 Gutter grates cleaned	686	cu. yds.
30 Pot holes cleaned	28	cu. yds.
Open drains cleaned	1,700	Ft.
8,299 complaints received	all cleared	
Sewer lines flushed	21,674	Ft.

Following is a resume of private drain inspections made in conjunction with private construction and alterations:

Street openings for private drain connections, inspection and record sketches for private drain construction and alterations:

ORIGINAL	214	EXTENSIONS	29
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CONSTRUCTION WORK PERFORMED 1965 - 1966

Clarkson Street	Replace 3 twelve inch x five inch clay pipe
Atwells Avenue	Built new 12" basin connection from existing basin on Atwells Avenue on the North East corner of West Exchange Street to West Exchange Street sewer.
Thayer & Power Sts.	Replace 2-8" traps with 2-12" traps.
Burrington Street	Built weir in manhole
Merino Park Playground	A new sewer line installed
New York & Michigan Avenues	Construct 2 new gutter grate box chutes
Bradford & Cedar Streets	Repair sanitary lines
College & South Water Street	Built 2 manholes and replaced 2 steel grates
Pilsudski Street	Replace broken pipe
17 Alexander Street	Clear standpipe in sewer
315 Canal Street	Repair bulk head chute
Pepper St. and Branch Avenue	Relay an 8" pipe and built a manhole
274 Kinsley Avenue	Replace broken 8" pipe
Ernest Street	Put vents in manholes in front of Sewage Pumping Station
Opp. 95 Payton Street	Dig up one section of storm line
Robbin Street	30' clean brook and replace pipe

DRAW BRIDGE OPERATION SECTION

This section is responsible for the operation of the two draw bridges (Point Street Bridge and Red Bridge) owned and operated by the City of Providence. The men in this section also performed the housekeeping and preventative maintenance duties (greasing, oiling, shoveling snow, etc.) required to keep these bridges in operation. The repair and heavy maintenance work required on these bridges is performed by the Bridge Maintenance Section.

EXPENDITURES

ITEM 0	Personal Services	\$53,816.42
ITEM 1	Services other than Personal	856.20
ITEM 2	Materials and Supplies	<u>457.17</u>
	TOTAL	\$55,129.79
	Revenue	11.21

Point Street Bridge was placed on a limited opening basis on May 10, 1958. The operating personnel and the electric power meter were removed at that time. Requests to have the bridge opened for water traffic must be made 24 hours in advance so that an operating crew can be obtained and a power meter installed.

The following table shows the number and type of craft passing through Red Bridge by months of the fiscal year. It also shows the totals of vessels and openings and average time for openings for the fiscal year immediately preceding.

SUMMARY OF OPERATIONS FOR YEAR ENDING SEPTEMBER 30, 1966

RED BRIDGE

Steamers	20	9			4	10	43	35	5.45	37	27	5.45
Tow-Boats	12	10			9	3	34	25	5.40	43	41	5.40
Sailing Vessels	25	22			8		66	61	5.37	66	52	5.37
Sailing Boats	20	7		4	15		35	27	4.05	76	56	4.05
Barges	24	16	2		9		53	44	5.05	58	39	5.05
Miscellaneous	14	2			11		41	30	4.74	39	42	4.74
Total No. of Vessels 1965-1966	12	9			7		18	24	4.42	39	28	4.42
Total Openings 65-66	18	14	2		3	8	43	36	5.47	45	31	5.47
Average time openings to close gates (min.)	8	5	2		3	16	56	49	4.42	34	32	4.42
Total No. of vessels 1964-1965	15	20	3	2	5	24	117	81	4.67	30	27	4.67
Total Openings 1964-1965					5	18	60	51	4.69	62	45	4.69
Average time openings to close gates (min.) 1964-1965					5	18	59	52	4.09	41	29	4.09
	218	182	8	12	108	97	625	515		586	449	

The following table shows the total of craft passing through the drawbridges beginning the fiscal year 1907:

From 1907 to 1928, inclusive, years ending December 31.

From 1929 includes 9 months only, and ends September 30.

From 1930 to date, years end September 30.

YEAR	POINT ST. BRIDGE	RED BRIDGE	YEAR	POINT ST. BRIDGE	RED BRIDGE
1907	25,949	2,632	1933-34	1,990	3,750
1908	21,767	4,852	1934-35	1,307	2,454
1909	17,218	6,914	1935-36	1,468	2,150
1910	17,125	2,927	1936-37	1,368	2,130
1911	20,078	3,293	1937-38	1,136	1,913
1912	21,519	3,021	1938-39	1,676	2,187
1913	15,311	3,734	1939-40	1,299	3,431
1914	13,364	2,491	1940-41	1,066	2,420
1915	14,409	2,755	1941-42	1,205	1,722
1916	11,638	3,368	1942-43	1,263	1,087
1917	9,704	3,273	1943-44	1,487	2,262
1918	6,894	2,680	1944-45	1,233	1,319
1919	7,123	3,647	1945-46	1,078	1,828
1920	6,950	4,451	1946-47	936	1,640
1921	6,067	2,001	1947-48	1,010	1,541
1922	5,307	2,958	1948-49	666	2,130
1923	5,476	5,134	1949-50	638	1,609
1924	4,858	2,035	1950-51	371	1,973
1925	4,939	1,942	1951-52	125	1,628
1926	5,198	2,415	1952-53	202	1,752
1927	4,700	2,934	1953-54	51	2,787
1928	4,679	3,912	1954-55	883	1,313
1929	4,068	3,623	1955-56	141	1,536
1929-30	3,210	2,738	1956-57	16	1,189
1930-31	3,243	2,742	1957-58	9	1,076
1931-32	1,197	1,900	1958-59	6	1,021
1932-33	1,327	2,787	1959-60	0	758
			1960-61	212	586
			1961-62	104	614
			1962-63	2	689
			1963-64	0	749
			1964-65	0	449
			1965-66	0	515

BRIDGE	GREATEST NUMBER OF OPENINGS IN ANY ONE DAY	DAILY AVERAGE NUMBER OF OPENINGS FOR THE YEAR
	1964-1965	1965-1966
Red	9	1.57
Point	0	

SNOW REMOVAL

EXPENDITURES

Item 0	Personal Services	146,225.12
Item 1	Services other than Personal	80,903.74
Item 2	Material and supplies	<u>76,533.04</u>
TOTAL		303,661.90

Snow removal is primarily a function of the Highway Section. All the ice control (sanding, salting, etc.) is accomplished by this section. The plowing is performed in the following manner.

Zones 1-2-3-8-10	By the Incinerator Trucks
Zones 4-5-6-9-13	By the Highway Department Trucks
Zone 7	By the Forestry Trucks
Zones 11-12	By the Sewer Trucks

Thirteen main routes of the City are plowed in tandem by hired trucks working under the supervision of Zone Supervisors. All hills and main highways are sprayed with salt.

For the fiscal year 1965-1966 the City had 13 snow storms, the first on December 11, 1965 and the last on March 12, 1966 with a total of 36.75 inches. During this period the following work was completed.

Sanding Streets	15,449 miles
Plowing Streets	6,558 miles
Removal of snow (Business areas, churches, and Funeral Homes)	29,970 cu. yds.

The following materials were used during the year:

Sand	4,907.60 tons
Salt	5,566.49 tons

The following equipment was hired from private contractors:

Trucks (Plow)	24	1397.75 Hours
Trucks (Removal)	12	123.00 Hours

Respectfully submitted,

Joseph J. Campo
Joseph J. Campo P.E.

Chief of Construction and Maintenance

SHOPS AND STORES

The Public Works Shops & Stores services completely all sections of the Public Works Department.

All the Automotive construction and maintenance equipment is furnished to the section requiring its use on a rental basis. These rental payments are shown as receipts in the Revolving Fund which, together with the money received for stock orders and job orders, comprise the money used for defraying the operating costs and the purchase cost for the rental equipment of these sections.

A detailed resume of the activities is as follows:

This section has no budget allowance. All expenses for labor and materials are paid for with the money received from the equipment rentals, and from stock and job orders, together with the initial capital appropriated.

This section is responsible for procuring, servicing, maintaining and repairing all equipment, materials and supplies required by the sections and divisions of the Public Works Department.

All automotive and mobile or portable construction and maintenance equipment used, is obtained from this section and paid for on a rental basis.

A list of the available rental equipment is as follows:

32 Garwood Packer Trucks	4 Derrick Trucks
3 Dump Truck 10 cu. yds.	1 Hoist Truck 5000#
2 Compressors, Truck Mounted	2 Bulldozers TD 18
35 Dump Trucks, 4 cu. yds.	1 Sky Worker
4 Dump Trucks, 6 cu. yds.	1 Welder, Electric Portable
1 Bulldozer TD 9 3 cu. yds.	5 Road Graders
9 Pickup Trucks 3/4 Ton	2 Mist Sprayers
1 Stake Body Truck, 1 Ton	2 Concrete Mixers 3S
1 Express Body Truck 2 1/2 Ton	6 Snow Loaders
1 Express Body Truck 1/2 Ton	5 Lawn Mowers, Power
20 Passenger Cars	5 Tail Gate Spreaders
10 Air Compressors, Portable	108 Snow Plows
1 Trailer 25 T Flatbed w/tractor	4 Snow Blowers
1 Station Wagon	4 Scout Cars
2 Hoist Trucks 2500#	4 Front End Loaders
1 Roller 8-12 Ton Tandem	1 roller 10-14 ton tandem
1 Roller 10-12 Ton 3 wheel	1 Fork Lift
1 Walters Snow Fighter	2 Paver, asphalt
1 Roller 3-5 Ton Tandem	3 Tool Heaters
1 Tar Kettle	6 Generators, Portable
4 Leaf Collectors	6 Tool Wagons
2 Eductor Trucks	18 Spreaders, Mounted
1 Wood Chipper	1 Utility Truck
	1 Stump Rooter

This equipment is serviced and repaired in the repair shops by personnel of this section.

During the year the following new equipment was purchased by the section and incorporated in the rental pool.

2-10 Wheel Trucks	1 Wood Chipper
4 Snow Blowers	2 Tool Heaters
1 TD 20 Bulldozer	1 10-14 Ton Roller
1 Paver Asphalt	1 4-6 Ton Roller
3 Automobiles	12 Spreaders, Body Mounted
16 Plows	4 Pickup Trucks
2 Sweepers	5 Radios, Mobile
2 Leaf Collectors	1 Front End Loader

In addition to the rental equipment in the pool, this section, also services, repairs and maintains the following equipment for the sections shown:

1 Fork Lift	Automotive Repair Shop
1 Air Compressor	Paint Shop
1 Emergency Motor & Generator	Point Street Bridge
2 Buckets, Clamshell	Incinerator
4 Buckets, Orange Peel	Sewer Maint. Section
1 Roller, 5 Ton Tandem	Recreation Department

The Public Works Stock room carries much of the materials, parts and supplies required by the sections of the division. An inventory of \$85,016.67 in materials and supplies and parts was on hand on September 30, 1966.

Respectfully Submitted:

Joseph J. Campo P.E.
Chief of Construction & Maintenance

Mr. Lawrence P. McGarry
Director of Public Works
700 Allens Avenue
Providence, Rhode Island

Dear Sir:

We herewith submit the annual report for the Division of Public Buildings, Public Works Department:

The following are the expenditures for the fiscal year ending September 30, 1966:

Item 0	Personal Services	94,672.13
Item 1	Services other than Personal	4,731.05
Item 2	Materials and Supplies	756.52
Item 5	Capital Outlay	159.33
	TOTAL	100,319.03

During the year we supervised the construction of:

New Greenhouse Group at Roger Williams Park
Lippitt Hill Elementary School
Nelson St. School - Addition and Alterations

This included supervision of supplementary details and inspection at the site.

Meetings at the site of the James L. Hanley Classical Central Education Center were held by representatives of this office and the architects, engineers and general contractor to plan phases of construction for this \$7,854,844.00 project, contract for which was signed on September 12, 1966.

This Division prepared plans and specifications and supervised the work to be done at the following schools:

Broad St. School	New Sidewalk
Fox Point School	Roof repairs
Gilbert Stuart Jr. High	Gas Piping Extension
Grove St. School	New Chain Link Fence
Hope High School	Concrete Parking Area
Joslin St. School	Concrete Paving
Kenyon St. School	Alterations to Classrooms
Messer St. School	Installation of New Fence
Oliver H. Perry Jr. High	New Concrete Parking Area
Smith St. School	Yard Paving and New Fence

Under the School Modernization and Construction Program we prepared specifications and drawings and supervised work for:

Webster Ave. School	Miscellaneous Alterations -
	Structural

Webster Ave. School	Electrical Modern- ization
Regent Ave. School	Miscellaneous Alter- ations Structural
Regent Ave. School	Plumbing Moderniza- tion

New furniture for: Academy Ave., Regent Ave., Temple St.,
Lexington Ave., Ralph St., Vineyard St., and Webster Avenue schools.

Work done by this Division for other Departments

For Bureau of Police and Fire:

Headquarters Building	Boiler Repairs
Headquarters Building	Plumbing Repairs
Headquarters Building	Tile Repairs
Headquarters Building	Miscellaneous repairs
Dog Kennel-Roger Williams Park	Electrical Work
Chad Brown Station	Electrical Work
Chad Brown Station	Boiler Repairs
Reservoir Ave. Fire Station	New Concrete Apron
Branch Ave " "	Tile Repairs
Rochambeau Ave " "	Boiler Repairs
Rochambeau Ave " "	Roof Repairs
Brook St. Fire Station	Roof Repairs
Dexter St. Repair Shop	Roof Repairs
Dexter St. Repair Shop	Relocate Siren
Animal Crematory	Electrical Repairs

For Bath Houses and Comfort Stations:

Miscellaneous plumbing, electrical and structural repairs
where necessary at Franklin Park Bath House, Kennedy Plaza and
Weybosset Street Comfort Stations.

For City Sergeant:

Supervision of miscellaneous heating, plumbing, electrical and
roofing repairs at the City Hall and Fountain Street Annex.

For Board of Canvassers:

Posting notices; delivery and pick up of tables and other
equipment used in primaries and elections; supervision of electric-
ians hooking up voting machines and any emergency repairs.

For Park Department:

Supervision and inspection on repairs and renovations to Bird
House; minor plumbing repairs at Greenhouse; preparation of plans
and specifications for repairs at garage; supervision of prepara-
tion of plans and specifications for Rest Rooms; and

Christmas Display - Supervision of electrical work.

For recreation department:

Plumbing, heating, electrical and miscellaneous repairs at:

Plain Street Recreation Center
Gesler Street Recreation Center
Dudley Street Recreation Center
Joslin Street Recreation Center
Danforth Street Recreation Center
Zuccolo Pool
Danforth St. Pool

Installation of new fences at:

Ardoene Street Playground
Mount Pleasant Playground
Junior Police Camp - Point Judith

and coordinating requisitioning, processing of purchase order receiving copies to Controller's Office for payment at request of City Plan Division for

Purchase and Installation of Playground Equipment
Site Preparation and Development

Construction of Shipyard Playfield

and supervision of preparation of plans and specifications for Swimming Pool - Roger Williams Park.

Other Work done by this division or under our supervision and inspection:

Veterans Administration Building - Hope Street: Roof repairs, minor carpentry and painting work.

Municipal Garage - Boiler repairs

Esek Hopkins Homestead - minor plumbing repairs

Preparation of various and sundry drawings for possible location of Multi-purpose Center for elderly persons - submitted to Family and Business Relocation Service.

Supervision of preparation of plans and specifications for Public Welfare Administration Building.

Preparation of estimates of costs as requested by various City Departments.

Preparation of architect's agreements when requested and preparation of payments to said architects; also payments for surveys of sites and borings in connection with proposed projects.

Work under construction and being done under the supervision of this Division during the fiscal year ending September 30, 1966 or brought to completion during this time amounts to approximately \$10,310,700.00.

Construction work under way and plans and specifications being drawn for work to be done in the near future amounts to approximately \$12,662,000.00

Very truly yours,

R. Einar Soderback
Superintendent of Public Buildings

STREET LIGHTING SECTION

Mr. Lawrence P. McGarry
Director of Public Works
700 Allens Avenue
Providence, Rhode Island

Dear Sir:

STREET LIGHTING COSTS:

The total expenditures for the fiscal year ending September 30, 1966, for street, bridge, subway, and park lighting bills, contracted in the months stated, less all credits for outage, have been as follows:

1965 - 1966 Appropriation — \$526,059.45

INCANDESCENTS AND MERCURYS

<u>1965</u>	<u>Total Bill</u>	<u>Less Outage</u>	<u>Net Cost</u>
October	42,312.55	89.21	42,223.34
November	42,069.40*	148.04	41,921.36
December	42,618.59	120.53	42,498.06
<u>1966</u>			
January	42,626.15	139.43	42,486.72
February	42,728.98	110.09	42,618.89
March	42,843.10	60.63	42,782.47
April	42,688.98	76.52	42,612.46
May	42,851.63	39.71	42,811.92
June	42,841.79	48.13	42,793.66
July	42,812.28	48.83	42,763.45
August	42,912.50	47.08	42,865.42
September	<u>42,945.69</u>	<u>61.93</u>	<u>42,883.76</u>
	\$512,251.64	\$990.13	\$511,261.51

*Original Bill	\$42,455.35
November Blackout	385.95
	<u>\$42,069.40</u>

(3) Three hours outage on whole system November 9, 1965

SCHEDULES OF STREET LIGHTING DATA

	<u>O.H. A.N.</u>		<u>1000 cp.</u>		
	<u>600 cp.</u>	<u>U.G. A.N.</u>	<u>U.G. H.N.</u>	<u>O.H. A.N.</u>	
October 1, 1965	29	59	3	4	
September 30, 1966	29	34	3	4	
Changes	0	25	0	0	
	<u>Merc. 7000Lu.</u>	<u>Merc. 2 Lt. A.N. U.G.</u>	<u>15000c & 21000Lu Merc. Vap. O.H.</u>	<u>Merc. U.G.</u>	<u>Sodium Light U.G. A.N.</u>
October 1, 1965	297	5	2116	1854	21
September 30, 1966	404	5	2108	1629	21
Changes	107	0	8	45	0
	<u>100cp. U.G. A.N. U.G. H.N.</u>	<u>100cp. O.H. A.N. H.N.</u>	<u>Merc. Vap. 24 Hr. U.G.</u>	<u>250cp. O.H. U.G. H.N.</u>	
October 1, 1965	135 222	7734-B	44	502 17 11	
September 30, 1966	133 222	7705 9	44	502 13 11	
Changes	2 0	29 0	0	0 4 0	

September 30, 1965 September 30, 1966 Changes

Total number equivalent single incadescent lights	8725	8662	63
Total number mercury lights 21,000, & 7,000 Lu.	4046	4190	144
Total number equivalent single sodium lights 10000 Lu.	21	21	0

From May 1 to October 14, inclusive, the H.N. Lights burn one extra hour until 1 A.M.

The United Transit Company is charged for $\frac{1}{2}$ the cost of the 15,000c lumen U.G. mercury which is located at the Thayer Street entrance to the tunnel.

B-includes 8 lights on Montgomery Avenue for which Cranston pays \$7.00 per light per annum

These charges shown for the United Transit Company and the City of Cranston are billed by the City Controllers Office.

STREET LIGHTING UNIT COSTS

Under the provisions of terms and conditions for street light—this being the so called "Fuel Clause," the cost of the street lights for the year beginning October 1, 1965 depended upon the cost of fuel for the year ending July 31, 1966. This cost averaged \$9.87 per standard net ton. This is \$.88 below the base price of \$10.75. All base prices shown in the rate schedule will therefore be decreased by an amount obtained by multiplying the decrease per ten cent variation by .8. A Tabulation showing the unit prices for the year beginning October 1, 1966, is as follows:

	Annual Decrease Per 10¢ Decrease in cost of 10¢ below fuel below \$10.75	No. of 10¢ below \$10.75 base Fuel Price	Decrease to Base Price	Annual Base Price	Net Price
<u>INCANDESCENT 100 cp.</u>					
U.G. All Night021	8	.17	29.12	28.95
U.G. Single, ½ Night . .	.009	8	.07	25.11	25.04
Aerial Single, A.N. . .	.021	8	.17	16.09	15.92
Aerial Single, ½ Night. .	.009	8	.07	10.40	10.33
<u>MISCELLANEOUS</u>					
250 C.P. U.G. A.N. . .	.043	8	.34	52.19	51.85
250 C.P. Aerial, A.N. . .	.043	8	.34	32.19	31.85
1000 C.P. Aerial, A.N. . .	.132	8	1.06	72.51	71.45
1000 C.P. U.G. A.N. . .	.132	8	1.06	92.51	91.45
1000 C.P. U.G. ½ Night . .	.072	8	.58	72.39	71.81
250 C.P. U.G. ½ Night . .	.024	8	.19	43.74	43.55
10,000 Lu. Sodium, U.G. . .	.049	8	.39	87.22	86.83
10,000 Lu. Sodium, O.H. . .	.049	8	.39	67.22	66.83
600 C.P. Incandescent, O.H. .	.088	8	.70	53.57	52.87
600 C.P. Incandescent, U.G. .	.088	8	.70	73.57	72.87
21,000 Lu. O.H.	—	—	—	94.00	94.00
21,000 Lu. U.G.	—	—	—	114.00	114.00
7,000 Lu. O.H. Mercury . . .	—	—	—	55.00	55.00
7,000 Lu. U.G. Mercury . . .	—	—	—	75.00	75.00
21,000 Lu. U.G. 2 Lt. . . .	—	—	—	208.00	208.00
15,000-c Lu. O.H.	—	—	—	77.00	77.00
15,000-c Lu. U.G.	—	—	—	97.00	97.00
15,000-c Lu. U.G. 2 Lt. . . .	—	—	—	174.00	174.00
15,000-c Lu. Underpasses 24 Hr. .	—	—	—	123.00	123.00

Notes:

15,000c Mercury Vapor means a 21,000 Lumen Mercury Vapor Lamp
Installed in an existing 15,000 Lumen Mercury Vapor Luminaire.

The rates which are affected by fuel costs are:

General Service Rate D, Power Rate F., Power Rate G.

NARRAGANSETT ELECTRIC COMPANY FUEL COSTS

The amount determined under the preceeding provisions shall be increased or decreased by .000005 per killowatt hour for each \$.01 increase or decrease in cost of fuel, as defined in the Company's terms and conditions, above or below \$10.75 per net ton. The cost of fuel for any month shall affect the price of electricity billed in the second month following such month.

The cost of fuel by month was as follows:

1965 September.....	\$ 10.019 *
October.....	9.983
November.....	9.834
December.....	9.980
1966 January.....	9.949
February.....	10.058
March.....	9.762
April.....	9.591
May.....	9.685
June.....	9.739
July.....	9.640
August.....	9.582

*Standard net ton

The number of lamps and globes reported as broken on street lights during the years 1964-1965-1966, is as follows:

<u>INCANDESCENT</u>	<u>LIGHTS BROKEN</u>	<u>MERC. GLOBES</u>
1964-1965	5115	132
1965-1966	6228	99

MALL PARKING DECK LIGHTS

1 FRANCIS STREET

The Mall Parking Deck Lights are charged to the general Street Lighting account. However, they will not show on the schedule because they are on a separately metered circuit and do not come under the contract price per light unit. They are metered on a "G" Rate, and so much per K.W.

<u>No. of Lights</u>	<u>Type of Lights</u>	<u>Hours of Burning</u>
12 U.G.	21,000 Lumen M.V.	24 Hours
14 U.G. A.N.	21,000 Lumen M.V.	Predetermined Ft. Candle Level
18 U.G. A.N.	2,500 Lumen Inc.	Predetermined Ft. Candle Level

The 10 U.G. A.N. 21,000 Lumen M.V. lights on the top deck are separately metered and charged to the Meyers Brothers Parking System.

MONTHLY CHARGES

<u>MONTH</u>	<u>K.W. USED</u>	<u>BILL</u>
October, 1965	2320 K.W.	54.05
November, 1965	3900 K.W.	92.79
December, 1965	4260 K.W.	96.44
January, 1966	6840 K.W.	123.07
February, 1966	5580 K.W.	106.87
March, 1966	4160 K.W.	84.01
April, 1966	4720 K.W.	89.98
May, 1966	5580 K.W.	110.09
June, 1966	4840 K.W.	90.10
July, 1966	4440 K.W.	86.29*
August, 1966	4460 K.W.	86.60
September, 1966	4680 K.W.	88.59

*Pay nothing on this bill. Part of \$227.37 credit for double payment on Pedestrian Mall and Mall Parking June bills.

Sign Inspection

Signs inspected for overhead wire clearance 296

These signs are inspected for wire clearance as noted in the National Safety Code Standard.

Private Floodlight Inspections

APPROVED
86

REJECTED
20

REMOVED
4

This Department also inspects every new installation request for private lighting by the Narragansett Electric Company for adverse affect on Traffic or homes. These private light sources are either 400 Watt or 1000 Watt Floodlights, or private lighting on the sidewalk, side of the utility pole which is called area lighting.

The Central-Classical Redevelopment area is still in progress and we have worked in conjunction with the utility companies in removing and replacing lights as the project develops.

Improved lighting on the following streets:

<u>STREET</u>	<u>TYPE OF LIGHT</u>
Burgess Street	7000 Lumen Mercury Vapor
Bridgham Street	7000 & 21000 Lumen Mercury Vapor
Winter Street	21000 Lumen Mercury Vapor
River Avenue	7000 Lumen Mercury Vapor
Weybosset Hill Area	
Broadway Etc.	New 21000 Lumen Mercury Vapor
Silver Spring Street	7000 Lumen Mercury Vapor
Branch Avenue	21000 & 7000 Lumen Mercury Vapor
Cemetary Street	7000 Lumen Mercury Vapor
Frost Street	7000 Lumen Mercury Vapor
East Frontage Road	7000 Lumen Mercury Vapor
Orchard Avenue	7000 Lumen Mercury Vapor
Hay-Peck-Orange Streets	New 21000 Lumen Mercury Vapor
Smith Street & Francis St.	To New 21000 Lumen Mercury Vapor
Memorial Square Complex	To New 21000 Lumen Mercury Vapor
Netop Drive	New 1000 Lumen Incandescent

And approximately 53 New 1000 Lumen @ 7000 Lumen Installations on petition requests.

WESTMINISTER PEDESTRIAN MALL

<u>MONTH</u>	<u>K.W. USED</u>	<u>BILL</u>
October 1965	672	28.35
November 1965	4893	205.31
December 1965	No Reading	—
January	The Current Billing is for	721.23
February	\$129.54 and the balance for Unpaid months of November and December	
March	3685	143.39
April	2973	123.32
May	3156	131.33
June	3372	137.27
July	3990	11.53*
August	2277	95.48
September	3640	143.97

*Paid only \$11.53 on this bill. Part of \$227.37 credit for double payment on Pedestrial Mall and Mall Parking June bills.

Recapitulation

Grand Total	\$511,261.51
Total monthly average cost 1964-1965	\$ 42,027.63
Total monthly average cost 1965-1966	\$ 42,605.13
Increase from previous year of the Monthly Average	\$ 577.50
Total savings in outages	\$ 990.13

<u>New Street Light Petitions</u>	<u>Received</u>	<u>Granted</u>	<u>Hold</u>
	77	53	24
<u>Utility Pole Petitions Received and Field Checked</u>			179

SUMMARY

There are now 3244 15,000c lumen mercury vapor lights in service.

There are now four hundred and four (404) 7000 Lumen Mercurys.

There are now 501, 21,000 Lumen Mercury vapor lights in service.

The number of 2,500 lumen incandescent lights have been decreased by four (4), bringing the total number of this type of light now in use to 526.

There are thirty eight (38) 10,000 Lumen lights in service in the City that will be replaced with 21,000 lumen mercury vapor lights in the near future.

There are eight thousand and sixty nine (8069) 1000 lumen lights in service (familiar neighborhood type). There have been 53 lights of this type installed during the past fiscal year, on street light petitions.

EXPENDITURES

Item 0. Personal Services	5,645.95
Item I. Services other than personal	514,953.00

= Very truly yours,

Peter J. Hicks, Jr.
Public Service Engineer

John T. Crowley
Street Lighting Section

NUMBER AND KIND OF STREET LIGHTING UNITS IN SERVICE IN PROVIDENCE SINCE 1935

Year	Mercury Bridge Structures 24hr. Burning	INCANDESCENTS			SODIUM		MERCURY			
		5.5A 100cp	250cp.	1000cp.	600cp.	1000cp.	*15000c Lu. O.H.	*15000c Lu. U.G.	7000Lu.	21000 Lu.
1935		8727	8	130						
1936		8691	8	214						
1937		8703	8	214						
1938		8724	8	320						
1939		8735	8	328						
1940		8746	8	331	29	25				
1941		8727	8	508	29	25				
1942		8731	8	598	29	25				
1943		8731	8	540	29	25				
1944		8741	8	540	29	25				
1945		8756	8	540	29	25				
1946		8513	8	554	29	26	19			
1947		8709	8	568	29	26	179			
1948		8687	8	568	29	26	256			
1949		8624	115	586	29	25	1049			
1950		8701	116	550	29	25	1556			
1951		8721	162	560	29	25	1855			
1952		8668	226	565	29	25	2360			
1953		8671	251	504	29	25	2802			
1954	44	8308	314	506	29	25	3293			
1955	44	8277	414	449	29	25	3428			
1956	44	8228	447	435	29	25	3476			
1957	44	8248	489	391	29	25	3501			
1958	44	8192	484	349	29	25	3570			
1959	44	8236	512	348	29	22	3593		7	
1960	44	8244	519	345	29	22	3623		42	
1961	44	8212	547	331	29	21	3607		88	
1962	44	8122	536	309	29	21	3567		118	12
1963	44	8139	541	187	29	21	2754	825	173	231
1964	44	8136	534	122	29	21	1081	2311	245	321
1965	44	8100	530	66	29	21	2076	1203	297	426
1966	44	8069	526	38	29	21	2054	1187	404	501

*15000c Lu. means a 21000 Lu. Mercury Vapor Lamp installed in an existing 15000Lu. Mercury Designed Luminaire

STREET LIGHTING SUMMARY

We can again say the high standard of street lighting enjoyed by the citizens on the travelled arteries of the City of Providence has contributed in no small way to the welfare of the pedestrian as well as the motorist in protecting the lives and property of its citizens. The low amount of assault cases on the City streets after dark confirms this fact.

It has increased property valuation and acted as an incentive to property owners to improve their property.

We also feel that our improved street lighting still contributes an important part in enabling the Traffic Engineering Division and the Police Department to gain national recognition for traffic safety on our streets.

We are constantly improving residential lighting, as much as possible where it is feasible, by installing more units to fill in the existing long spacings that were practical years ago when they were installed but where new construction of homes and the full growth of trees have now made those spacing impractical as well as unsafe at night. Possibly, in the future, a controlled tree planting system by our City Forester will correct this street light shading by trees in our neighborhoods by recommending the planting of new trees back of the property line and not on the curb line as is presently and formerly done. Some of our existing neighborhood streets are impossible to adequately light at all because of tree foliage grown from trees on both sides of the street extending over the center line of the highways.

The street light breakage showed a considerable increase over last year. The many Redevelopment areas throughout the City are a factor. However our weekly copy of the percentage breakage is still forwarded to Commissioner Goldstein, Commander Wilding and Colonel Franklin for their constant assistance. In this way our department can work in closer proximity and more efficiently with all utility companys.

I suggest some expense item for new equipment, the maintaining of same, and travel expense, if the opportunity arises, to attend another street light institute or testing wire. These outdoor lighting institutes are frequently given by the General Electric Company and other Street Lighting Equipment Companies will keep us abreast with the new developments in street lighting.

This department also sent inspectors out of the State on two occasions during the past fiscal year to wire and cable manufacturers, to witness and approve the testing of Traffic Signal Cable and Fire Alarm Cable to make certain it met the required specifications. This cable was destined to be installed in the City of Providence.

TRAFFIC ENGINEERING DEPARTMENT

Mr. Lawrence P. McGarry
Director of Public Works
700 Allens Avenue
Providence, Rhode Island

Dear Sir:

The following is a list of traffic signal equipment in use by the Traffic Engineering Department of the City of Providence:

Total number of traffic signal heads	1,361
Total number of traffic signal poles	644
Total number of traffic signal controllers (local)	183
Total number of traffic signal controllers (master)	6
Total number of feet of underground ducts and laterals	74,191
Total number of miles of underground cable	29.52
Total number of miles of aerial cable	6.63
Total number of miles of equivalent single conductor (underground)	156.80
Total number of miles of equivalent single conductor (aerial cable)	33.49

The above list of equipment is owned by the Traffic Engineering Department. At the same time we are using duct space and cable belonging to New England Telephone & Telegraph Company and the City of Providence Fire Department as follows:

Total number of feet of duct space belonging to the New England Telephone & Telegraph Company assigned to City use.....52,530

Total number of feet of duct space belonging to the Fire Department of the City of Providence.....3,040

Total number of miles of equivalent single conductor underground cable belonging to the City of Providence Fire Department and assigned for Traffic Engineering use.....57.6

THE NARRAGANSETT ELECTRIC COMPANY

1. (a) Total number of wood poles in City (including those jointly owned but not including those jointly used, with no Narragansett ownership.) 18460
- (b) Total number jointly owned poles with New England Telephone and Telegraph Company 13883
2. (a) Total number iron poles in City 246
- (b) Number of underground street light standards (ornamental incandescent and mercury vapor) 2165
- (c) Number of iron poles with N.E.T. & T. Company 9
3. Total number miles conduit (trench feet) in City 81.62
4. Total number miles conduit (duct feet) in City 684.63

5. Total number miles underground cable in city.....898.27
6. (a) Total number miles equivalent single underground conductor....
.....1246.03
- (b) Total number miles aerial cable.....360.83
- (c) Total number miles equivalent single conductor aerial
cable.....951.93
7. Total number miles aerial open wire.....3755.66
8. Total number service pipes or laterals.....67.37
9. Total number commercial transformers in city.....6121
10. Total number customers supplies directly by U.G. connection
.....24098
11. Total number customers supplied directly by O.H. connection
.....48196
12. Total number meters installed in city.....72294
13. Approximate total number of 1 ϕ 2 wire 115 V. meters in city
.....28510
14. Approximate total number of 1 ϕ 3 wire 115/230 V. meters in
city.....38722
15. Approximate total number of 3 ϕ 3 wire 115 V. meters in city
.....14
16. Approximate total number of 3 ϕ 3 wire 230 V. meters in city
.....228
17. Total number of 3 ϕ 4 wire 120/208 V. meters in city...1644
18. Total number of 1 ϕ 3 wire 120 V. two element meters in city
.....1897
19. Total number of D.C. 2 wire and 3 wire 250 and 250/500 V.
meters in city.....51
20. Approximate total number of 3 ϕ 3 wire 575 V. meters in city
.....1228

DEPARTMENT OF PUBLIC SAFETY

<u>INVENTORY</u>	<u>SIGNAL CONSTRUCTION</u>			<u>FIRE ALARM DIVISION</u>	<u>POLICE SIGNAL SYSTEM</u>	
	<u>Total</u>	<u>Aerial</u>	<u>U.G.</u>	<u>Quick Action Door</u>	<u>Key Type Door</u>	<u>Keyless</u>
Fire Alarm Boxes	999	613	386	977	9	13
City Owned	688	421	267	688	0	0
Privately Owned	311	192	119	289	9	13
Police Call Boxes	168	103	65			
Total number of all box and cable pedestals					367	
Total number of all Fire Alarm Box Pedestals					274	
Total number of all Police Box Pedestals					67	
Total number of all Cable Pedestals Only					36	
Total number of miles of Underground Cables					87.15	
Total number of miles of Parkway Cables					1.47	
Total number of miles of Aerial Cable					4.82	
Total number of miles of Equivalent Single Conductor - Underground					1258.40	
Aerial					129.30	
Parkway					6.42	
Total Footage of all underground ducts and laterals owned by the City					3445.6	
Number of Poles owned by the City					36	
Increase of number of Fire Alarm Boxes owned by the City					3	
" " " " " " " " " " Privately owned					10	
These increases are for the year 1965-1966						

NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY

Total number of wood poles (including jointly used, but not including those jointly used with no Telephone Company ownership).....17,088

Total number of jointly used poles with Narragansett Electric Company.....13,883

Total number of miles main conduit (trench miles).....66.06

Total number of miles U.G. Cable.....315.72

Total number of miles aerial cable.....308.58

Total wood terminal boxes on poles.....192

Approximate number of telephones supplied directly by underground or block distribution.....48,285

Approximate number of telephones supplied directly by overhead lines on highways.....46,696

The following additions have been made to the equipment in use by this company during the past year.

Additional miles of cable - Underground and Aerial.....23.15

Increase in the number of telephones in use.....1,210

ESTIMATE

This report covers plant statistics as of September 30, 1966

WESTERN UNION TELEGRAPH COMPANY

City Plan, Providence, Rhode Island

Number of Poles	None
Number of Poles jointly owned	None
Number of feet of U.G. conduit (tr. ft.)	276
Number of feet of U.G. conduit	922.6
Number of miles of U.G. cable	.743
Number of miles of wire in U.G.	65.12
Number of feet of twisted pair: -----	
(a) On licensed attachments privileged to purchase the poles of other companies:.....	16,200
(b) Across street:.....	820
(c) Over private alleys:.....	280
Manholes owned:.....	1

PROVIDENCE GAS COMPANY

Total Gas Services in Providence.....37,165

Miles of Main:

L.P.	393 Miles	3,955 Feet
H.P.	14 Miles	1,530 Feet
Natural Gas	1 Mile	1,800 Feet
TOTAL	409 Miles	2,005 Feet or 409.4

Gas Holders.....4

Number of Meters (Active).....51,948

Decrease in Gas Services 9/30/65 - 9/30/66.....264

Increase in Miles of Main 9/30/65 - 9/30/66.....1.5

Decrease in Number of Meters 9/30/65 - 9/30/66.....593

PUBLIC SERVICE SUMMARY

The small amount of utility pole petitions received and field checked by this department this year is because neither one of the utility companies conducted a depreciation survey. The 179 figure represented new and regular maintenance work.

There have not been any gas tests conducted by this division for some time, to check the B.T.U. content of illuminating natural gas, because of the lack of personnel, the inadequate laboratory conditions and the unworkable condition of the two pieces of gas testing equipment.

The added duty of this division is the field inspection and approval of all gas permits and the checking of soil resistivity.

The sign inspections by this division were prompted by some near fatalities in the past, which is now controlled by allowing signs to be only as near high tension wires as the National Safety Code Standard allows and recommends.

This division also field checks, inspects and approves all petitions submitted for the installation of all underground conduit, vaults, manholes and duct lines installed in Providence by the Narragansett Electric Company, Providence Gas Company, New England Telephone & Telegraph Company, Western Union Telegraph Company, Department of Public Safety and the Traffic Engineering Department.

Christmas decorations have been inspected and approved at Olneyville Square, Mount Pleasant area, Wayland Square, Federal Hill and the Downtown area, sponsored by the various businessmen's associations.

This division also checked and approved all monthly department electric and gas bills rendered to all City of Providence Departments.

Consequently, it would seem advisable at this time to recommend to the department an assistant to be added to the street lighting division, to help maintain and keep up to date card files, outage records, gas testing, and field check light locations.

Respectfully submitted,

Peter J. Hicks
Public Service Engineer

MUNICIPAL DOCK

Mr. Lawrence P. McGarry
Director of Public Works
700 Allens Avenue
Providence, Rhode Island

Dear Sir:

The following rigs arrived in the harbor during the period from October 1, 1965 to September 30, 1966.

Steamships	422
Motor Vessels	660
Barges	202
Tugs	715
U.S.N.S.	1
U.S.N.D.F.	1
	<u>2,001</u>

The following cargo arrived in the harbor and the following cargo was shipped during the period from October 1, 1965 to September 30, 1966.

<u>RECEIVED</u>		<u>SHIPPED</u>	
Gasoline	2,762,254 Tons	Gasoline	468,856 Tons
Fuel Oils	3,905,145 "	Fuel Oils	409,607 "
Kerosene	217,645 "	Kerosene	61,776 "
Diesel	140,850 "	Diesel	24,058 "
Lube	60,852 "	Ashpalt	53,222 "
Ashpalt	96,050 "	Scrap	135,974 "
Coal	392,685 "	Gen. Cargo	1,306 "
Cement	172,366 "		<u>1,154,799 Tons</u>
Chemicals	15,396 "		
Gen. Cargo	44,790 "		
*Lumber	122,967 "		
	<u>7,931,000 Tons</u>		
		TOTAL:	7,931,000 Tons Rec'd
			<u>1,154,799 Tons Ship'd</u>
			9,085,799 Tons Rec'd & Ship'd

* (73,780,785 B.F.)

The following were the expenditures for this section:

Item 0	Personal Services	44,206.40
Item 1	Services other than	
	Personal	11,682.20
Item 2	Materials and	
	Supplies	<u>1,460.42</u>
	Total	57,349.02
	Revenue	314,130.53

The following rigs arrived at the harbor from October 1, 1965 to September 30, 1966:

	<u>Steamships</u>	<u>Motor Vessels</u>	<u>Barges</u>	<u>Tugs</u>	<u>U.S.N.S</u>	<u>U.S.N.D.</u>
October	32	53	11	67		
November	39	45	16	69		
December	38	56	14	70		
January	42	55	18	74	1	
February	37	50	18	52		
March	33	55	16	63		
April	41	46	17	65		
May	30	41	27	58		1
June	34	65	13	62		
July	26	72	15	31		
August	35	90	22	59		
September	<u>35</u>	<u>32</u>	<u>15</u>	<u>45</u>	-	-
	422	660	202	715	1	1

TOTAL: 2,001

TONNAGE RECEIVED OCTOBER 1, 1965 to SEPTEMBER 30, 1966

	<u>Gasoline</u>	<u>Fuel Oils</u>	<u>Kerosene</u>	<u>Diesel</u>	<u>Lube Oils</u>	<u>Ashpalt</u>	<u>Coal</u>
October	172,932	251,065	21,488	13,318	3,528	12,197	29,341
November	315,467	324,574	14,208	11,191	4,989	16,511	52,062
December	208,325	425,072	23,338	5,175	3,571	6,706	26,230
January	215,735	475,905	28,479	6,300	9,618	-	26,203
February	195,552	432,286	21,247	6,602	6,363	-	26,168
March	213,410	395,561	18,824	7,956	3,606	-	26,255
April	179,388	376,062	15,863	12,924	5,939	5,854	49,901
May	183,215	271,710	19,243	6,900	3,972	5,769	-
June	283,486	188,055	15,784	23,489	10,986	11,747	26,264
July	194,368	255,323	12,450	11,808	1,012	14,471	53,590
August	263,361	286,855	20,686	19,957	3,065	14,666	-
September	<u>238,015</u>	<u>222,677</u>	<u>6,035</u>	<u>15,230</u>	<u>4,203</u>	<u>8,129</u>	<u>76,671</u>
TOTALS:	2,762,254	3,905,145	217,645	140,850	60,852	96,050	392,685

TONNAGE RECEIVED OCTOBER 1, 1965 to SEPTEMBER 30, 1966 (continued)

	Cement	Chemicals	General Cargo	Lumber	
October	19,117	1,680	657	8,786	(5,271,785 B.F.)
November	17,628	1,632	1,370	9,158	(5,494,670 B.F.)
December	11,974	802	651	12,384	(7,430,710 B.F.)
January	-----	-----	5,089	7,934	(4,760,864 B.F.)
February	2,609	817	2,147	4,923	(2,954,088 B .F.)
March	7,846	1,833	2,339	14,859	(8,915,233 B.F.)
April	21,928	832	2,048	17,939	(10,763,335 B.F.)
May	21,380	1,726	1,335	11,143	(6,685,551 B .F.)
June	16,821	1,634	6,997	16,652	(9,990,996 B .F.)
July	10,685	1,400	750	4,685	(2,810,581 B .F.)
August	20,598	1,690	11,169	6,502	(3,901,561 B .F.)
September	<u>21,780</u>	<u>1,350</u>	<u>10,238</u>	<u>8,002</u>	<u>(4,801,411 B .F.)</u>
TOTALS:	172,366	15,396	44,790	122,967	(73,780,785 B .F.)

TONNAGE SHIPPED OCTOBER 1, 1965 to SEPTEMBER 30, 1966

	<u>GASOLINE</u>	<u>FUEL OILS</u>	<u>KEROSENE</u>	<u>DIESEL</u>	<u>ASHPALT</u>	<u>SCRAP</u>	<u>GENERAL CARGO</u>
October	26,536	24,591	7,773	2,888	8,170	15,425	-----
November	39,102	13,989	3,602	894	-----	-----	-----
December	37,193	57,832	8,664	2,437	-----	10,441	-----
January	37,218	39,683	7,543	597	5,000	17,130	-----
February	29,698	61,158	7,350	2,166	2,500	10,415	46
March	34,496	73,992	5,165	1,351	-----	-----	-----
April	41,320	26,887	7,357	2,613	-----	22,752	-----
May	37,037	37,300	6,336	644	6,716	9,490	-----
June	48,278	29,046	3,275	4,045	12,500	18,480	-----
July	42,902	15,666	1,523	2,092	11,170	-----	-----
August	53,985	22,154	1,781	3,405	7,166	31,841	1,260
September	<u>41,091</u>	<u>7,309</u>	<u>1,407</u>	<u>926</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
TOTALS:	468,856	409,607	61,776	24,058	53,222	135,974	1,306

MUNICIPAL DOCK

October 1, 1965 to September 30, 1966

The following rigs, cargo and freight cars arrived at the Municipal Dock during the period from October 1, 1965 to September 30, 1966:

RIGS

Steamships	82
Motor Vessels	81
Barges	113
U.S. Navy	1
Steamships, Inactive	
Dockage	9

CARGO

Gasoline	278,614	Gross	Tons
Fuel Oil	110,570	"	"
Kerosene	10,799	"	"
Lube Oils	3,305	"	"
Lumber (73,780,785 B.F.)	122,968	"	"
Cement	119,035	"	"
Asphalt	77,482	"	"
Steel	6,541	"	"
Chemicals	9,192	"	"
Pig Iron	14,003	"	"
General Cargo	9,405	"	"
Salt	8,000	"	"
TOTAL:	769,764	Gross	Tons

CARGO SHIPPED

Petroleum Products	36,410	Tons
Scrap	24,726	"
Machinery	1,260	"
TOTAL:	62,396	Tons
Received	769,764	Tons
Shipped	62,396	Tons
TOTAL:	832,160	Tons

Freight Cars. 2,211 Cars

TOTAL EARNINGS FOR YEAR 1965 - 1966 ARE AS FOLLOWS:

Lease of Land	94,584.85
Wharfage	77,475.17
Trackage	4,422.00
Water	5,521.89
Dockage	44,301.39
Rental	70,361.91
Storage	15,828.44
Telephone	144.94
Electricity	<u>1,489.94</u>

TOTAL \$314,130.53

Respectfully Submitted,

James J. Fisher
Port Agent

FAMILY AND BUSINESS RELOCATION SERVICE

Mr. Lawrence P. McGarry
Director of Public Works
700 Allens Avenue
Providence, Rhode Island

Dear Sir:

The enclosed annual report reviews the activities of the Family and Business Relocation Service for the fiscal year October 1, 1965 through September 30, 1966. Although the primary aim of the Relocation Service is to assist displaced families and individuals in securing decent, safe and sanitary housing within their economic range and suitably located, there must also necessarily be provision made for rehabilitation assistance with regard to health, economic and social problems.

A Relocation Service staff of twenty members was involved in (8) projects during the past fiscal year. Three (3) of these projects were in the field of urban renewal and five (5) within the federally-aided highway program.

Within the actual caseload of 415 site residents assisted during the year, a total of 130 occupants were successfully relocated, with 285 remaining on site as of September 30, 1966. It should be noted that included in this total are two (2) pre-acquisition diagnostic and referral studies, one of whose major aims is the general stabilization of the proposed renewal area.

Although the responsibility of assisting commercial establishments to be displaced by governmental action has been assigned to the Industrial Division of the Providence Redevelopment Agency, the Relocation Service has agreed to complete all commercial phases of any project which it had originally initiated.

A total of twelve (12) commercials, within five (5) highway projects comprised the workload at the beginning of the fiscal year. Nine (9) of these were successfully relocated during the year, with the remaining three (3) expected to be closed out within the next fiscal year. A total of four (4) highway projects were completed during the period.

Under present provisions of the Federal Aid Highway Act of 1962, the Federal Government agencies are assisting residential and commercial site occupants displaced from Federal Aid Highway Project areas. During the past fiscal year, the office of the City Collector has acknowledged the receipt of payments from the State of Rhode Island amounting to \$9,916.81 as reimbursement for assistance rendered by the Family and Business Relocation Service to residents and commercial establishments within highway project areas.

RESIDENTIAL DISPLACEMENT

Within the residential phase, the workload for the past twelve months has consisted of three projects. These were the Weybosset Hill Urban Renewal Project (R-7) and special Diagnostic and Referral Programs for the Randall Square and three remaining

phases of the proposed East Side Renewal Project (R-4). With all residential site occupants displaced by present highway condemnation successfully relocated, the concentration has been centered on urban renewal projects. From a total caseload of 415 at the beginning of the fiscal year, 130 were relocated as of September 30, 1966. Out of the remaining total of 285 residents, 18 are within the Weybosset Hill area and 267 within the two Diagnostic Study Phases of the East Side Renewal Project. (Within the Weybosset Hill Project, a total of 942 contacts, 644 home visits and 298 office contacts, were completed during the past fiscal year. Referrals to site residents totaled 69 for the same period).

As always, this agency maintains a program which places greatest emphasis upon the human aspect of relocation. We have continued and increased our efforts to maintain a constant liaison service between our clients and various public and private agencies concerned with individual health, social and economic problems.

With the implementation of the General Neighborhood Renewal Program (G.N.R.P.), the Relocation Services will offer similar assistance to residents of anticipated code enforcement and rehabilitation areas within the City of Providence. Present Relocation Service plans call for the offering of these agency services well in advance of the actual execution dates of each scheduled phase of the G.N.R.P.

COMMERCIAL RELOCATION

Within the highway clearance program for commercial site occupants, there were five (5) active projects at the beginning of the fiscal year. During the year, four (4) projects were completed. Nine of the twelve commercial establishments registered at the start of the fiscal year were successfully relocated; and the remaining three (3) were carried over to the new fiscal year. Although the transition of commercial relocation activities to the Providence Redevelopment Agency's Industrial Division has already been accomplished, the Relocation Service will continue to service the business concerns of the one remaining project which came under the original agreement.

The Relocation Service has endeavored over the years to induce displaced business concerns to relocate within the City. By offering listings, supplying information regarding building and zoning regulations and referrals to the Small Business Administration regarding eligibility for business loans, this agency has continued its attempts to facilitate relocation and moderate to some degree, the impact of displacement upon business concerns within the affected areas.

LISTINGS PROCESSED DURING THE YEAR

With the emphasis on stabilization for the two Diagnostic study areas, the greatest demand for listings continued to come from the Weybosset Hill Urban Renewal Project.

A total of 230 rental and sales listings were processed for all projects. Twenty of these listings or 9 per cent of the total were from out of town. These listings are inspected and scored under the American Public Health Association system. Each listing is evaluated under a penalty point system whereby basic deficiencies such as deterioration, over crowding, lack of egress, lack of sanitary facilities or inadequate lighting, ventilation or heating are assessed penalty points according to the degree of hazard to health or safety which they present. Dwellings or units which are found to be sub-standard are rejected and owners are subsequently referred to the Division of Minimum Housing for housing code requirements.

Because of the predominance of individual roomers as opposed to families residing within the Weybosset Hill Project Area, the emphasis in our appeal for housing was towards furnished and unfurnished rooms and efficiency apartments. This somewhat specialized appeal, necessitated by the nature of residency within the project area, no doubt restricted to some degree, the response from those who would normally list family size tenements and apartments with this agency.

EAST SIDE RENEWAL PROJECT: Diagnostic Studies and Social Action Programs.

This specialized program, endorsed by the Renewal Project Administration of the Department of Housing and Urban Development has been activated in the Randall Square area since March of 1963 or for a period of 42 months. In addition, a similar program has been undertaken since March of the past fiscal year in the Fox Point area. Both of these programs are aimed at the stabilization of proposed site residents by assisting them with their various problems of employment, health, education and connected difficulties.

Within the Randall Square Phase six families and three individuals moved from the area during the past fiscal year. A total of 525 contacts, 506 home visits and 19 office contacts were completed during this period. In addition, a total of 60 referrals were made to public and private agencies requesting assistance for site residents.

In the six months since the start of the Fox Point phase, eight families and twenty individuals have moved from the area. During that period, social workers from this agency completed 387 home visits and 30 office contacts for a total of 417 contacts. Referrals to public and private agencies in behalf of site residents totaled 37 for this period.

In view of the fact that the execution date of this project has been unavoidably delayed and has been tentatively rescheduled for the early part of 1967, the significance of this specialized service program may be more fully appreciated. Overall, Relocation Service efforts toward stabilization and rehabilitation of the area residents are producing a positive response on the part of site occupants and are serving to stimulate concerned interest on the part of various community agencies. Such established rapport between client, worker and social agencies will definitely

make for a smoother transition when actual relocation takes place.

This agency believes that while acting in accordance with the most recently developed policies of the Federal Government, we are also treating the more important problems of the site residents, such as physical and social rehabilitation with every available means.

JOINT PROGRAM FEDERAL AID HIGHWAY ACT

In accordance with terms of a formal contract with the State of Rhode Island Department of Public Works, under the Federal Highway Act, and effective April 30, 1964, the City of Providence's Relocation Service became the local public agency (L.P.A.) responsible for all displacement resulting from highway construction within the boundaries of the city.

As explained in a preceding section of this report, the responsibility for all commercial phases of any displacement within the City of Providence has been since assigned to the Industrial Division of the Providence Redevelopment Agency and that transition has been completed.

Under the provisions of the Federal Highway Act of 1962, reimbursement payments have been allowed for all technical relocation assistance provided to the State of Rhode Island in conjunction with all federal highway projects. In this connection, the City Collector's office during the past fiscal year, has acknowledged receipt of the sum of \$9,916.18 as reimbursement for assistance rendered by the Relocation Service in the relocation of residential and commercial site occupants from completed sections of highway projects which were condemned after October of 1962. As soon as the one remaining active highway project is cleared of occupants and all relocation claims have been processed, this office will forward invoice vouchers to the Rhode Island Department of Public Works for reimbursement payments.

Present regulations under the Federal Highway Act provides for relocation payments to eligible site occupants up to a maximum of \$200.00 depending upon the number of rooms occupied.

INTERGROUP ACTIVITY

During the past year, the displacement of non-white families was minimized greatly due to the relatively small number of non-white residents being displaced from the Weybosset Hill Urban

Renewal Project. In fact, during the year, just one family and eight individuals were relocated from the Weybosset Hill Project with six families from the Randall Square Area of the East Side Renewal Project and one family displaced from the Rhode Island Hospital Land Purchase Program. In all, there is a total of sixteen (16) displacements in this category.

The Intergroup Specialist assumed the responsibility of acting as the official liaison between the Relocation Office and Progress for Providence. By reason of this, the Relocation attendance was covered at meetings conducted by the Camp Street Neighborhood Resource Unit and the Fox Point Neighborhood Resource Unit.

This working relationship afford the Relocation Service an opportunity to carry out its responsibility to the residents in both of these areas in conjunction with the total urban renewal and poverty programs.

Many speaking engagements were conducted by the Intergroup Specialist before civic, religious and neighborhood groups.

The Relocation Service continues to maintain its high level working relationship with the Urban League of Rhode Island, the Catholic Inter-racial Council and C.O.R.E. It can be safely stated that progress is being made in minimizing, to some degree the harsh reality of discrimination.

SPECIALIZED PROGRAM FOR THE ELDERLY

The need for specialized services for elderly residents remains an important aspect of the Relocation program. During the past year, some 37 elderly individuals were provided service through the social worker administering specialized services to this segment of caseload. In view of the large number of roomers residing in the Weybosset Hill Project, every attention was devoted to the unique needs of the elderly displacees.

During the year, our elderly specialist attended the annual seminar for senior citizens at Boston University. This proved to be helpful in equipping the specialist with advanced knowledge required in meeting day to day problems in the field.

The experience of the past year currently indicates that elderly residents must be located near the central city in order to meet their daily mobility needs. Low cost housing is still a definite prerequisite involving all the areas of displacement relative to the elderly. In fact, of the success of our specialized program for the elderly, many of the hardships have been minimized in going about the task of relocation.

FORD FOUNDATION GRANT STUDY

The two-year study-demonstration grant sponsored by the Ford Foundation in conjunction with the University of Pennsylvania and the National Association of Housing and Redevelopment Officials was brought to a completion in the spring of 1966. A final project report was published along with a research report by the Rhode Island Council of Community Services. These documents are to be incorporated into a hard-covered volume under the title of A Social Service Program for Elderly Relocatees. The volume is currently being printed at the University of Pennsylvania Press Office.

This study proved to be of great value in setting the tone for future projects not only in the City of Providence but in the nation as well. This detailed study will enable the various federal and state agencies along with the Congress of the United States to have the opportunity to review the plight of elderly residents in all development activities.

One of the important aspects of this experience evolved around the 19 recommendations offered. It is our hope that careful study will be administered to these 19 recommendations with some positive action forthcoming from the federal officials in the policy-making field.

ASSISTANCE RENDERED TO OUT OF TOWN AGENCIES

During the past fiscal year, requests from several redevelopment agencies throughout the country for information were made of the Relocation Service. As in the past, all official requests for data were completed by forwarding a package brochure consisting of forms, letters and exhibits.

Most of the out-of-state agencies are primarily interested in the centralized relocation service which, undoubtedly, attracts most interest to new and experienced agencies. Information was forwarded, by request, to the following:

Citizens Council of Montreal, Canada
San Francisco, California Redevelopment Agency
Wilkes House, Incorporated, Des Moines, Iowa
Redevelopment Agency, City of Newburgh, New York
Redevelopment Agency, City of Omaha, Nebraska
Redevelopment Authority, Des Moines, Iowa
Redevelopment Agency, City of Easton, Pennsylvania

SUMMARY

In summarizing this annual report, there are many facets of activity to pull together depicting the day to day operations and specialized programs carried out during the year.

Generally speaking, the displacement activity was curtailed to some degree with one large active project in operation (namely, the Weybosset Hill Urban Renewal Project). The completion of the Ford Foundation two-year demonstration study consumed a great deal of time and energy. Likewise, much effort was devoted to the diagnostic study and social referral program which was carried out in the East Side Urban Renewal Project area.

Through conducted and extensive casework, a large segment of the East Side residents received various kinds of help in the field of social work, employment, economic advice and related assistance.

The supply of housing within the middle and low range strata continues to shed promise for future displacements. The working relationship with a host of private, semi-private and governmental agencies has been most gratifying in meeting multi-problems arising from the complexities of the program.

It can be concluded that the assistance rendered to the elderly clients has been invaluable in helping them meet their difficult problems. Perhaps the most outstanding problem during the year evolved around the inability to employ trained social workers to give services to the caseloads. This problem, while national in

scope, seems to be most trying in engaging experienced social case-workers.

Against this background, it is hoped that the planned G.N.R.P. project along with the Modern Cities Program in addition to the execution of the East Side Urban Renewal Project will be met with a high degree of success in carrying out our responsibilities to the citizens of Providence.

FAMILY AND BUSINESS RELOCATION SERVICE

PROGRESS REPORT ON RESIDENTIAL PHASE

FISCAL YEAR 1965 - 1966

<u>PROJECT</u>	<u>CONDEMNATION DATE</u>	<u>WORKLOAD 10/1/65</u>	<u>RELOCATED DURING FISCAL YEAR</u>	<u>REMAINING ON SITE 9/30/66</u>
<u>URBAN RENEWAL</u>				
*East Side Urban Renewal Project (Randall Square Phase)	3/4/63	83	9	74
*East Side Urban Renewal Project (Fox Point Section So. Main to So. Water Constitution Hill to No. Benefit)	**3/21/66	221	28	193
Weybosset Hill Urban Renewal Project	5/15/64	111	93	18
TOTAL		415	130	285

*Special Social Planning Program

**Workload as of 3/21/66

FAMILY AND BUSINESS RELOCATION SERVICE

REPORT ON RESIDENTIAL CONTACTS

FISCAL YEAR 1965 - 1966

<u>PROJECTS</u>	<u>HOME CONTACTS</u>	<u>OFFICE CONTACTS</u>	<u>TOTAL</u>
<u>URBAN RENEWAL</u>			
*East Side Urban Renewal Project (Randall Square Phase)	506	19	525
*East Side Urban Renewal Project (Fox Point Phase)	387	30	417
Weybosset Hill Urban Renewal Project	644	298	942
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TOTAL	1,537	347	1,884

*Special Social Planning Program.

FAMILY AND BUSINESS RELOCATION SERVICE

PROGRESS REPORT ON COMMERCIAL PHASE

FISCAL YEAR 1965 - 1966

<u>PROJECT</u>	<u>CONDEMNATION DATE</u>	<u>WORKLOAD 10/1/65</u>	<u>RELOCATED DURING FISCAL YEAR</u>	<u>REMAINING ON SITE</u>
<u>HIGHWAY CONSTRUCTION</u>				
Red Bridge	2/4/63	3	0	3
Route 6 Connector (Phase II)	2/28/63	1	1	completed
So. Water to Ives Street	1/28/64	6	6	completed
Ives to Seekonk River	6/26/64	1	1	completed
India Street	12/18/64	1	1	completed
TOTAL		12	9	3

FAMILY AND BUSINESS RELOCATION SERVICE

TOTAL NUMBER OF REFERRALS MADE TO RESIDENTIAL AND COMMERCIAL SITE OCCUPANTS

<u>PROJECTS</u>	<u>RESIDENTIAL</u>	<u>COMMERCIAL</u>
<u>URBAN RENEWAL</u>		
*East Side Urban Renewal project (Randall Square Phase)	** 60	
*East Side Urban Renewal project (Fox Point Phase)	** 37	
Weybosset Hill Urban Renewal project	69	
<u>HIGHWAY CONSTRUCTION</u>		
Red Bridge		9
South Water to Ives Street		0
Ives to Seekonk River		0
India Street		0
TOTAL	166	9

* Special Social Planning Program
 ** Public and Private Agency Referrals.

FAMILY AND BUSINESS RELOCATION SERVICE
RENTAL AND SALES PROPERTIES FOR ALL PROJECTS
FISCAL YEAR 1965 - 1966

<u>QUARTERLY</u>	<u>APPROVED</u>	<u>REJECTED</u>	<u>OUT OF CITY</u>	<u>TOTAL</u>
Oct.1 - Dec. 31,1965	62	35	-	97
Jan. 1 -March 31, 1966	24	24	7	55
April 1 - June 30, 1966	24	10	4	38
July 1 - Sept. 30, 1966	21	10	9	40
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TOTAL	131	79	20	230

FAMILY AND BUSINESS RELOCATION SERVICE
ANNUAL ALLOTMENTS
FISCAL YEAR 1965 - 1966

PERSONAL SERVICES

CITY SHARE GENERAL FUND	\$ 66,506.87
FEDERAL SHARE	<u>33,253.43</u>
TOTAL PERSONAL SERVICES	\$ 99,760.30
SERVICES OTHER THAN PERSONAL	\$ 10,142.00
MATERIALS AND SUPPLIES	500.00
EQUIPMENT OUTLAY	<u>250.00</u>
TOTAL ALLOTMENTS	\$110,652.30

* NOTE: Reimbursement from Rhode Island State Department of
Public Works under FEDERAL-AID HIGHWAY ACT
Legislation:

\$ 9,916.81

RESPECTFULLY SUBMITTED:
David Joyce

ENVIRONMENTAL CONTROL

Mr. Lawrence P. McGarry
Director of Public Works
700 Allens Avenue
Providence, Rhode Island

Dear Sir:

The department of Environmental Control began operation on July 1, 1966 as an adjunct to the Sanitation Division of the Public Works Department for the purpose of enforcing control of the Rat. Control Program as enacted by the City Council on February 20, 1948 (See Chapter 60, No. 88). In addition to the above this department has undertaken the destruction of potent and poisonous weeds, marijuana, etc., and the control of potential mosquito breeding areas including stagnant bodies of water and storm sewers.

The residents of the City co-operated with this department in bringing to the department's attention any existing condition that may have been brought about through the careless disposition or storage of refuse. Complaints by the residents were made promptly and issue warnings or institute preventive measure before the adjacent areas were infested. The demolition of buildings in the old areas of the City for various projects created an additional hazard as a result of the disturbance of hidden colonies of vermin and rodents. The consequent prompt baiting of these areas by this department reduced the potential overwhelming of other adjacent residential areas to a mere trickle that was easily eliminated through further baiting of poisonous baits.

The free distribution to the residents and publication of the fact that additional supplies were available at the Public Works Department without charge, brought about further co-operation of the residents. The potential threat of being infested by one or more of these conditions is continuous and the department is forced to remain constantly vigilant.

THE OPERATIONS OF THIS SECTION WERE AS FOLLOWS

Rodent complaints received	1833
Initial complaints, inspection and re-checks	1736
<u>Programs</u>	
Bait stations	580
Warning signs posted	21
Loads of debris removed	110

VERMIN CONTROL OFFICER

CLASS TITLE: Vermin Control Officer

CLASS DEFINITION: Responsible work in the inspecting and advising as to proper methods for preventing, controlling and/or exterminating rodents, vermin, insects, etc., from specific areas. Supervision may be exercised over other personnel engaged in this type of work.

DISTINGUISHING FEATURES OF WORK: Work involves responsible field work in the inspection in areas for complaints to determine existence of conditions of which complaints have been made or routine inspection with the view toward eliminating causes of complaints. Work assignments are received from a superior and reviewed for quality and results.

ILLUSTRATIVE EXAMPLES OF WORK: Plans, assigns and may supervise others engaged in this particular field and/or personally carries out the necessary details. May personally inspect complaints and advises as to the proper procedure for eliminating the sources of infestation. He shall render reports periodically on inspections and conditions pertaining to various factors of work.

NECESSARY KNOWLEDGES, SKILLS and ABILITIES: Thorough knowledge of the methods of preventing, controlling and exterminating rodents, vermin, insects, etc., from specific areas. Knowledge of the uses of chemicals in this work, methods of self-protection, and protection of others is paramount.

Weed Killers

Gallons used

Marijuana loads removed and destroyed 24

Mosquito Control Ditching

Linear ft. 6520

Brush Cutting

Square ft. 35,123

Acres sprayed 735

Spray material used, gallons 873

STAFF AND EQUIPMENT

Laborers 9

Foreman 1

Office Clerk 1

Inspector 1

Vermin Control Officer (Inspector) 1

Dump Truck 1

Car (passenger) 1

Jeep (truck) 1

1/4 ton truck 1

MARIJUANA CONTROL

The Marijuana Program involves responsible field work by the Environment Control section of the Public Works Department. Working crews periodically check all areas known to have existing marijuana conditions. They also follow leads reported to them by the local police department.

The customary procedure is to uproot the marijuana by pulling it from the ground and chopping it apart from the earth. It is then piled onto a dump truck and taken to the Incinerator where it is burned. When this operation is completed, experienced inspectors from this section check the area thoroughly to see that all traces of the marijuana have been removed.

REMOVAL OF POISON WEEDS

The removal of poison weeds such as Jimson Weed, Rag Weed, Poke Berries, Poison Ivy etc, are destroyed by this department by spraying of chemical and oils. The plants are cut down after the spraying and put into a dump truck by labor gangs under the supervision of the foreman then taken away to the incinerator and burned. After this the area is then completely re-inspected by the inspector and foreman.

RODENT CONTROL

The Environment Control section of the Public Works Department performs its duties in the field of rodent control primarily upon receipt of complaints. An inspector pays a visit to the specified site of complaints. If the area warrants attention, a working crew proceeds to cyanide holes.

Besides cyanide gas a Pival bait is used for exterminating. Pival has been found most effective and it is harmless to domestic animals and humans. This bait is placed in containers and the containers placed in various locations of the infested area.

Inhabitants of the neighborhood are requested to cooperate by instructing their children not to remove or destroy these bait containers. Re-calls are made to the vicinities usually over two or three week periods in order to check the existing conditions and to note any improvement of the area under complaint.

Due to the lack of cooperation on the part of dwellers in keeping yards free from garbage and debris, demolition in renewal and redevelopment areas, etc., the work of this section becomes a continuously important and very necessary function.

MOSQUITO CONTROL

The Department of Environmental Control has the duty of spraying all areas and sewers in the City of Providence plus the cleaning up of swampy areas by raking, shoveling all known river beds, creeks, polluted lands and parks. The parks, lakes and swampy polluted lands are completely sprayed from the beginning of the season to the end of the season. The control of mosquitos are very important to this department and to this City.

The citizen in the City of Providence, are very fortunate to have this service rendered and this Department is very pleased to be able to continue the mosquito control each year.

Respectfully submitted:

Raymond C. Morgan
Superintendent of Environment
Control