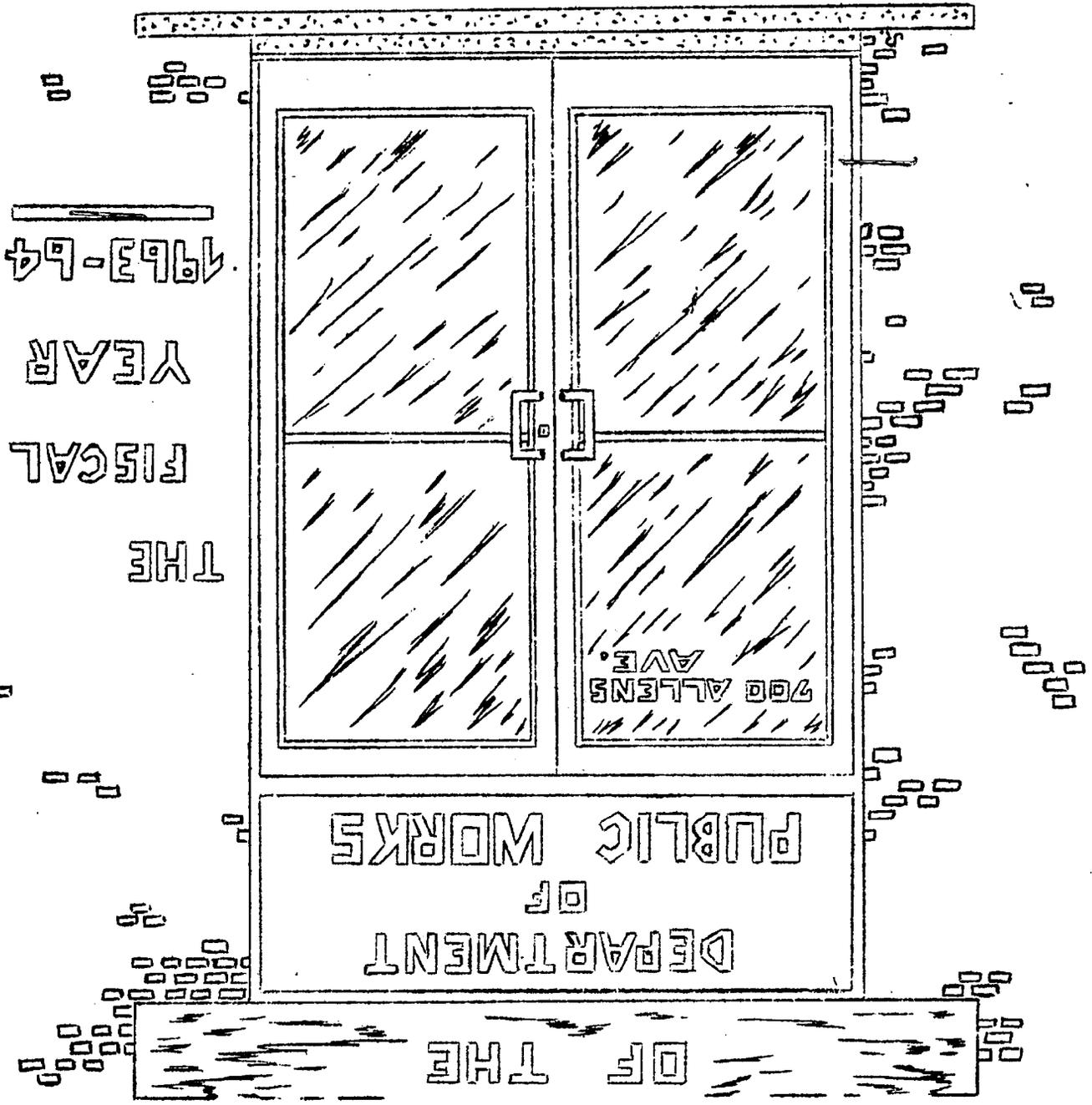


PROVIDENCE, RHODE ISLAND



1963-64

THE FISCAL YEAR

DEPARTMENT OF PUBLIC WORKS

700 ALLENS AVE.

ANNUAL REPORT OF THE

December 31, 1964

DEPARTMENT OF PUBLIC WORKS

OFFICE OF THE DIRECTOR

The Honorable Walter H. Reynolds,
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, 1964 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:

Business Management	Engineering Office
Construction and Maintenance	Sanitation
Public Service Engineer	Harbor

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

"The removal of eighty-five elm trees on City streets affected by Dutch Elm Disease" by E. W. Cerio Tree Service.

"The removal of one hundred and forty-three elm trees on private property affected by Dutch Elm Disease" by Sepe Tree Experts.

"Building of Sewers in Sundry Streets: by the V. F. Capaldi Const. Corp.

"Building of Sewers in Sundry Streets" by the Fanning & Doorley Const. Co. Inc.

Highway construction and reconstruction consisted of the construction with Asphaltic Concrete on a penetrated stone base of 4,671 square yards of pavement by contract, the resurfacing with Sheet Asphalt and Asphaltic Concrete of 102,477 square yards of pavement by contract; and repairs to and surfacing with Asphaltic Concrete of 171,106 square yards of pavement by the Public Works Highway Forces.

New sewer construction, by contract, consisted of the building of 0.5515 miles of sanitary sewers together with drains to curb and drainage structures.

This Department has rendered assistance to various City Departments and outside agencies, including the Park, Recreation, Public Welfare, Traffic Engineering, Redevelopment, Public Safety, Water and Health Departments.

Our relations have been very cordial with the local office of the Federal Bureau Public Roads, headed by Mr. Joseph Westell, the State Department of Public Works, headed by Mr. Angelo A. Marcello; the U.S. Army Corps of Engineers; the Providence Redevelopment Agency; and the consulting Engineers on the North-South Freeway, Louisquisset Pike, Red Bridge, Hartford Avenue, Redevelopment, and Fox Point Hurricane Barrier Projects and we appreciate the many courtesies and cooperation extended us.

I am very grateful for and appreciative of the splendid cooperation extended me by the City Council Committee on Public Works, comprised of Chairman Ralph Matera, Edward J. Loughran, Salvatore A. Beatini, Thomas L. Payne and Charles A. Kilvert.

I also wish to express my thanks and appreciation to other City Departments for the cooperation extended to this Department.

The successful operation of the Department is due to the untiring efforts of the Deputy Director, Division and Section Heads and their respective staffs, and my sincere thanks go to them for jobs well donw.

Contract work on the following named projects is in Progress:

Construction of Highways in sundry streets by Fanning & Doorley Construction Company.

Surfacing or reconstruction of highways by M. A. Gammino Construction Company.

Building sewers in sundry streets by D'Ercole Construction Company.

Construction of additional facilities at the Sewage Disposal Plant by the Hart Engineering Company.

Construction of Sludge Incinerator by Ayers, Hagan and Booth, Inc.

Construction of Sludge Incinerator by Nichols Engineering and Research Corp.

Replacing Motors and Switchgear alterations at Ernest Street Pumping Station by the Coken Company.

Construction of Westminster Mall by Campanella and Cardi Construction Company.

RECOMMENDATIONS

The underside of the bridge in the Memorial, Market and Crawford Square areas should be repaired, scraped and painted. Plans for this work are being prepared by C. A. Maguire and Associates, Engrs.

The furnace and combustion chamber arch of Garbage Incinerator Unit No. 1 should be replaced.

The electric crane in Unit No. 1, which has been in service twenty-five years, should be overhauled. This work should be done under the supervision of an engineer from the Harnischfeger Corporation.

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

The defective pre-heater tubes in Garbage Incinerator Boilers No. 1, 2, 3 and 4 should be replaced. Also, a number of tubes in both condensers should be replaced.

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.

A number of ventilators should be installed in the roof of Plant No. 1, the smoke at times is very heavy and the working conditions of the hoppermen and cranemen are not good. This condition should be relieved for it is a health hazard, and the ventilators should exhaust the smoke.

The doors in front of both garbage pits should be renewed.

Arrangements for annual inspection of turbines is necessary through manufacture representative. This has not been done for four years.

A new water jacket should be installed in Plant No. 1, around charging hopper.

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.

Replace roadway on Charles Street Bridge and paint steel members.

Replace north section of roadway, caplogs and drive new piles of Smith Street Bridge.

Paint all Bridges not painted during the past three years.

Crib walk at Point Street needs extensive repairs.

Relocate Bridge Maintenance Section from Harbor Masters Building at Point Street to Highway Building.

Iron fencing and grating needs repairing and painting at Point Street Bridge.

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.

Recommend that one of the six road graders be replaced. Two of these require extensive repairs and the stepped-up replacement plan should continue so as to cut down the cost of operation.

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

A maintenance gang of one foremen 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 Buildings, Forestry Buildings, 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 the 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.

Television Pictures should be taken of the following sewers to definitely determine whether or not the constant sinking of the roads on these streets are caused by fractures in the Sewers.

- (1) Elmwood Sanitary Sewer across Allens Avenue. This can only be done by closing down the pumping station and drawing the liquid from the detritors at the treatment plant.
- (2) Storm sewer across Smith Street at Richter Street.
- (3) Sanitary Sewer across Smith Street at Richter Street.

New sewage pumps are required for the Washington Park Pumping Station. A study of this situation is underway by the Engineers Office.

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.
Pembroke 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:

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.

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

Provision should be made and personnel instructed in the operation and maintenance of the facilities of the new Hurricane Dam which is scheduled to become a City responsibility upon completion.

The present City dump off Manton Avenue will be filled by about August 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.

The Architectural Firm of Oresto DiSaia is at present working on plans and specifications for the rehabilitation of the buildings of the Sanitation Division. This work is to be paid for with the \$400,000.00 Bond authorized in 1964. The new pumps for the Washington Park Pumping Station will also be paid for out of the same Bond.

A two way power connection with an input-output meter should be provided between the Incinerator Power Plant and the Narragansett Electric Company's transmission lines in order to fully utilize the power capabilities of the Incinerator Power Plant. The estimated cost of making this connection is \$15,000.00.

An additional Chlorinator should be added to the present Chlorinators at the Sewage Treatment Plant for an estimated cost of \$8,000.00 to \$10,000.00.

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 runoff from Sanitary Sewage.

The Shop and Stores repair section should have a competent rated supervisor (Foreman or Master Mechanic) and with the addition of two good mechanics advantage of the Incinerator Garage Repair facilities could be taken.

Respectfully submitted

Robert B. Strong
Robert B. Strong
Director of Public Works

IN CITY COUNCIL
JAN 4 - 1965

READ:
WHEREUPON IT IS ORDERED THAT
THE SAME BE RECEIVED.

Vincent Vespa
CLERK

BUSINESS MANAGEMENT OFFICE

Mr. Robert B. Strong
 Director of Public Works
 City Hall
 Providence, Rhode Island

Dear Sir:

I respectfully submit the Annual Report of the Business Management Office of the Department of Public Works for the Fiscal Year ended September 30, 1964.

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	560.00		40.00
Highway Privileges	1,200.00	935.00		265.00
Total Business and Non-Business Licenses	1,800.00	\$1,495.00		\$305.00
Special Assessments:				
Sewers	20,000.00	27,678.31	7,678.31	
Total Special Assessments	\$20,000.00	\$27,678.31	\$7,678.31	
Departmental Revenue:				
Engineering Office		77.00	77.00	
Sewage Pumping Station		10.55	10.55	
Sewage Disposal	148,000.00	155,447.83	7,447.83	
Garbage Collection and Disposal	24,000.00	36,862.86	12,862.86	
Refuse Collection and Disposal		50.00	50.00	
Highways	28,000.00	43,311.73	15,311.73	
Bridge Maintenance		283.20	283.20	
Forestry		2,258.79	2,258.79	
Sewer Const. & Maintenance	1,500.00	942.92		557.08
Street Lighting		104.50	104.50	
Municipal Docks	310,000.00	281,257.64		28,742.36
Draw Bridges		385.40	385.40	
Harbor Master		8.44	8.44	
Total Departmental Revenue	\$511,500.00	\$521,000.16	\$38,800.30	\$29,299.44
Total Statement	\$533,300.00	\$550,173.47	\$46,478.61	\$29,604.44

STATEMENT OF EXPENDITURES

FOR THE FISCAL YEAR ENDED SEPTEMBER 30, 1964

	<u>PERSONAL SERVICES</u>	<u>SERVICES OTHER THAN PERSONAL</u>	<u>MATERIALS AND SUPPLIES</u>	<u>SPECIAL ITEMS</u>	<u>EQUIPMENT OUTLAY</u>	<u>OTHER STRUC- TURES AND IMPROVEMENTS</u>	<u>TOTAL</u>
General Administration	24,318.09	1,713.92	114.36				26,146.37
Business Management	35,863.91	353.33	744.21				36,961.45
Engineering Office	168,858.93	6,226.41	1,021.70		888.11		176,995.15
Sanitation Division							
Sanitation Administration	13,535.01	5,203.60	23.34				18,761.95
Street Cleaning	267,134.87	78,778.38	941.86				346,855.11
Sewage Pumping Station	70,139.65	1,852.43	2,963.95				74,956.03
Sewage Disposal	279,827.90	175,552.30	149,341.03		8.59		604,729.82
Garbage Collection & Disposal	615,643.01	221,413.82	21,822.44	1,250.53			860,129.80
Refuse Collection & Disposal	93,055.58	36,642.23	2,226.96				131,924.77
Construction and Maintenance Division							
Construction & Maintenance Admin.	6,606.50	657.40	11.37				7,275.27
Highway	616,556.30	165,943.41	173,433.95			150,000.00	1,105,933.66
Bridge Maintenance	42,598.73	6,253.77	11,504.01				60,356.51
Sidewalk and Curbing	20,412.09	3,253.40	2,398.96				26,064.45
Forestry	77,836.18	18,877.06	3,505.32		32.90		100,251.46
Snow Removal	154,551.29	108,800.72	125,355.88				388,707.89
Sewer Construction and Maintenance	255,399.55	63,698.19	16,171.49		312.50	125,000.00	460,581.73
Public Buildings	90,050.38	10,941.58	974.69		496.60		102,463.25
Draw Bridges Operation	50,069.05	894.33	602.49				51,565.87
Municipal Dock	30,763.91	8,896.85	1,794.69				41,455.45
Harbor Master	3,862.41	122.71	32.44				4,017.56
Street Lighting	5,449.60	501,672.79	4.16				507,126.55
Division of Relocation	44,581.39	8,577.19	493.62		1,159.52		54,811.72
Total-Public Works Activities	\$2,967,114.33	\$1,426,325.82	\$515,482.92	\$1,250.53	\$2,898.22	\$275,000.00	\$5,188,071.82

THE FOLLOWING SERVICES WERE ALSO RENDERED BY THIS DEPARTMENT

APPLICATIONS RECEIVED

For Altering Curb Openings for Driveways	163
Construction of Curb Openings for Driveways	173
Curbing Resets	<u>65</u>
Total Applications	401

LICENSES ISSUED

Newspaper Stands	10
Push Carts	9
Sidewalk Stands	40
Drain Layers Licenses	7
Drain Layers Licenses (Limited to Sprinkler Systems)	<u>4</u>
Total Licenses	70

PERMITS ISSUED

Public Utilities	235
Blasting	0
For Moving Cumbersome Equipment, etc.	1
Street Openings (Water Supply Board)	237
Original Permits for Sewer Connections	205
Extension of House Drains	337
Sidewalk Openings for Water Service	15
Street Openings (Other)	<u>214</u>
Total Permits	1244

Respectfully submitted,

Benjamin Cianciarulo

Business Management Office

ENGINEERING OFFICE

MR. ROBERT B. STRONG
DIRECTOR OF PUBLIC WORKS
CITY HALL-PROVIDENCE, R. I.

DEAR SIR:

FOLLOWING IS THE ANNUAL REPORT COVERING VARIOUS ACTIVITIES OF THE ENGINEERING OFFICE FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 1964:

<u>EXPENDITURES</u>		
ITEM 0	PERSONAL SERVICES	\$208,835.12
ITEM 1	SERVICES OTHER THAN PERSONAL	5,980.00
ITEM 2	MATERIALS AND SUPPLIES	800.00
ITEM 5	EQUIPMENT	300.00
		<u>\$215,915.12</u>

STREET LINE AND CITY PROPERTY SECTION

NOTICES OF INTENTION TO BUILD

THERE WERE 227 NOTICES OF INTENTION TO BUILD FILED IN THIS OFFICE DURING THE FISCAL YEAR. THIRTY SEVEN OF THESE WERE NOT REQUIRED FOR VARIOUS REASONS. IN RESPONSE TO THE REMAINING 190 NOTICES, THE STREET LINES WERE MARKED ON THE GROUND AS REQUESTED FOR SPECIFIED LOCATIONS.

FIELD SURVEYS ON THE 15 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 NORTH-SOUTH FREEWAY.

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>
BEVERLY STREET	WASHINGTON STREET TO FOUNTAIN STREET	230.83
CLARKSON STREET	ADMIRAL STREET, EASTERLY TO ITS EASTERLY TERMINATION	535.49
DIMARIO DRIVE	JASPER STREET TO ITS NORTHERLY TERMINATION	367.31
HAMLIN STREET	PRESENT EASTERLY TERMINATION, EASTERLY TO FREEWAY TAKING LINE	103.40

HYLESTEAD STREET	PAVILION AVENUE TO ITS NORTHERLY TERMINATION	515.496
JASPER STREET	FROM THE PORTION PREVIOUSLY RECEIVED EAST OF PARENTE STREET TO A POINT SQUARE OPPOSITE THE TANGENT POINT OF A CURVE AT THE NORTHEASTERLY CORNER OF DIMARIO DRIVE AND JASPER STREET	108.35
LAKEVIEW DRIVE	FROM A POINT 40 FEET SOUTH OF THE SOUTHERLY LINE OF WESTMORE STREET, NORTHERLY TO A POINT 177.70 FEET NORTH OF THE NORTHERLY LINE OF SWANTON STREET	1006.83
MARCONI STREET	GALLILEO AVENUE TO ITS WESTERLY TERMINATION	235.57
NETOP DRIVE	THURSTON STREET TO ITS SOUTHERLY TERMINATION	961.70
POTTER DRIVE	HAMLIN STREET TO THURSTON STREET	483.39
SPOKANE STREET	CHARLES STREET TO ITS EASTERLY TERMINATION	563.11
SPOONER STREET	STAMFORD AVENUE TO NETOP DRIVE	273.46
STAMFORD AVENUE	SPOONER STREET TO SOUTHERLY LINE OF BISSELL STREET	238.67
SWANTON STREET	NIANTIC AVENUE TO LAKEVIEW DRIVE	341.10
THURSTON STREET	FROM THE WESTERLY LINE OF POTTER DRIVE, EASTERLY TO THE FREEWAY TAKING LINE	289.55
TOBYHANNA STREET	NIANTIC AVENUE TO LAKEVIEW DRIVE	453.56
TOGANSETT ROAD	NIANTIC AVENUE TO LAKEVIEW DRIVE	607.77
TRUTH STREET	NELLIE STREET TO ITS NORTHERLY TERMINATION	183.00
WESTMORE STREET	NIANTIC AVENUE TO LAKEVIEW DRIVE	612.52

THE FOLLOWING STREETS WERE ABANDONED DURING THE YEAR ^{TOTAL} 8111.10

RECEIVED STREETS ABANDONED

1.54 MILES

<u>NAME</u>	<u>BETWEEN POINTS</u>	<u>LENGTH IN FEET</u>
BARCLAY STREET	ATWELLS AVENUE TO FEDERAL STREET	320.00
CODDING STREET	CRANSTON STREET TO WESTMINSTER STREET	826.11
CODDING STREET	BOOTH STREET TO CENTRAL STREET	214.00
CORY STREET	ATWELLS AVENUE TO FEDERAL STREET	320.00

DODGE STREET	CRANSTON STREET TO WESTMINSTER STREET	978.61
KNIGHT STREET	CRANSTON STREET TO LESTER STREET	160.63
LESTER STREET	A STREET TO PEARL STREET	546.4
LOCKWOOD STREET	PLAIN STREET TO HOSPITAL STREET	1240.25
POND STREET	WINTER STREET TO PEARL STREET	266.79
SAUNDERS STREET	LESTER STREET TO PERKINS STREET	<u>221.99</u>
	TOTAL	5094.78 FEET
		.965 MILES

UNRECEIVED STREETS ABANDONED

BANK STREET	WESTMINSTER STREET TO POND STREET	251.10
BISSELL STREET	STAMFORD AVENUE TO ITS EASTERLY TERMINATION	67.55
FALCON STREET	WESTMINSTER STREET TO POND STREET	250.4
MONTCALM COURT	WINTER STREET TO SPRING STREET	301.1
MUNROE STREET	LESTER STREET TO PERKINS STREET	222.9
RUTHERGLEN AVENUE	FROM A POINT 164.72 FEET MORE OR LESS WEST OF THE WESTERLY LINE OF PARKMAN STREET, WESTERLY TO ITS FORMER TERMINATION	89.00
SALMON STREET	FROM A POINT 330 FEET SOUTH OF KING STREET TO ITS SOUTHERLY TERMINATION	<u>492.00</u>
	TOTAL	1674.05 FEET
		.317 MILES

THE APPROXIMATE LENGTH OF STREETS PLATTED BUT NOT RECEIVED IS 41.8406 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 1964 (MEASURED ALONG PROPERTY LINES) 369.574 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 STREETS, ALL RECENTLY PLATTED, HAVE BEEN ADDED TO THE LIST OF UNRECEIVED STREETS:

VICTORIA STREET	FROM FORMER NORTHERLY TERMINATION TO GALLILEO AVENUE
-----------------	--

GALLILEO AVENUE	FROM FORMER NORTHERLY TERMINATION, NORTHEASTERLY TO STANDISH AVENUE
POTTER DRIVE	FROM HAMLIN STREET TO THURSTON STREET
HAMLIN STREET	FROM FORMER EASTERLY TERMINATION, EASTERLY TO FREEWAY LINE
THURSTON STREET	FROM FORMER EASTERLY TERMINATION, EASTERLY TO FREEWAY LINE
NETOP DRIVE	FROM THURSTON STREET TO ITS SOUTHERLY TERMINATION
SPOONER STREET	FROM STAMFORD AVENUE TO NETOP DRIVE

CITY PROPERTY PLANS AND SURVEYS WERE MADE COVERING THE FOLLOWING PROJECTS:

POINT JUDITH	PROPOSED PURCHASE
TRIGGS PARK	PROPOSED CONVEYANCE
TRIGGS PARK (ADJOINING)	PROPOSED CONVEYANCE (SCHOOL DEPT.)
PLAINFIELD AND NANCY STREETS	PROPOSED HIGHWAY
MT. PLEASANT STADIUM AREA	PROPOSED STREET PATTERN
ELTON STREET AND BLACKSTONE BLVD.	SURVEY OF SMITH ESTATE PROPERTY
BEL AIR DRIVE	ZONING CHANGE
CLARKSON STREET	PORTION TO BE DEEDED FOR HIGHWAY
KENNEDY PLAZA	SHOWING LOCATIONS
ALDRICH AT NORTH WEST CORNER OF RUGBY STREET	PROPOSED SALE
ALDRICH STREET AT SOUTH WEST CORNER OF RUGBY STREET	PROPOSED SALE
ERNEST STREET AND ALLENS AVENUE	PUMPING STATION
LLOYD AVENUE	ZONING CHANGE
WOONASQUATUCKET AVENUE	ZONING CHANGE
FLORENCE STREET	RE-LOCATION OF FENCE
NEUTACONKANUT PARK	CROSS SECTIONS OF PORTION
ALVIN STREET	CONDEMNATION FOR HIGHWAY PURPOSES
RESERVOIR AVENUE	CONDEMNATION FOR HIGHWAY PURPOSES

DOWNING STREET	CONDEMNATION FOR HIGHWAY PURPOSES
KINSLEY AND HARRIS AVENUES	RENEWAL OF LEASE
POND STREET	PROPOSED ABANDONMENT OF PORTION
CATO STREET	STRIP DEEDED FOR HIGHWAY PURPOSES
BISSELL STREET	ABANDONMENT OF PORTION
NETOP DRIVE AND THURSTON STREET	PROPOSED SALE
POTTER DRIVE	PROPOSED SALE
HAMLIN STREET AND POTTER DRIVE	PROPOSED SALE
SPOONER STREET AND NETOP DRIVE	PROPOSED SALE
WORCESTER STREET	PROPOSED ABANDONMENT (PORTION)
HELEN STREET	PROPOSED ABANDONMENT (PORTION)
SPOONER STREET	PROPOSED SALE
NETOP DRIVE	PROPOSED SALE
UNNAMED COURT	PROPOSED ABANDONMENT
RUTHERGLEN AVENUE	PROPOSED ABANDONMENT
FIELD'S POINT	OPTION TO LEASE (WILSON CO.)
BARCLAY AND CORY STREETS	PROPOSED ABANDONMENT
LOCKWOOD STREET	PROPOSED ABANDONMENT
ROANOKE STREET (OFF)	PROPOSED SEWER EASEMENT
THURSTON STREET	PROPOSED SALE
NETOP DRIVE	PROPOSED SALE
SWANTON STREET	LAKEVIEW DRIVE TO NIANTIC AVENUE
NEW YORK AVENUE	PROPOSED PURCHASE (BERRY HILL LAND CO.)
MOORE STREET	PROPOSED ABANDONMENT (PORTION)
SUPERIOR STREET	PROPOSED ABANDONMENT (PORTION)
UNNAMED GANGWAY (BETWEEN MARINO STREET AND) (ALVERSON AVENUE)	PROPOSED ABANDONMENT
MANTON AVENUE	ZONING PLAN
GRANT AND CARPENTER STREETS	ZONING PLAN

WEYBOSSET HILL PROJECT	ZONING PLAN
NETOP, SPOONER, BISSELL, STAMFORD AND HATHAWAY STREETS	ZONING PLAN
WESTMINSTER AND PARADE STREETS	ZONING PLAN
ALDRICH STREET	ZONING PLAN
TRIGGS MEMORIAL PARK	RECREATION FIELD
ROGER WILLIAMS PARK	PORTION CONDEMNED FOR ROUTE 95

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

KLONDIKE STREET	HERSCHEL STREET TO A POINT 197.80 WESTERLY
BEL AIR DRIVE	WOONASQUATUCKET AVENUE TO A POINT 160.0 WEST OF HERSCHEL STREET
CHRISTOPHER STREET	CHARLES TO WINDMILL STREET
COLLYER STREET	CEMETARY STREET TO MATILDA STREET
RIDGEWAY AVENUE	234.2 FEET EAST OF MANTON AND HILLCREST AVENUES
ATKINS STREET	REGENT AVENUE TO ITS NORTHERLY TERMINATION
PARENTE STREET	SMART STREET TO ITS NORTHERLY TERMINATION

THE FOLLOWING PLANS WERE DRAWN FOR THE OFFICIAL FILES OF THE CITY CLERK:

MYSTIC STREET	PRAIRIE AVENUE TO ITS EASTERLY TERMINATION
ALGONQUIN STREET	PROPOSED ABANDONMENT (PORTION)
ARDOENE STREET	PROPOSED ABANDONMENT (PORTION)
HOWELL, SCOTT AND FLINT STREETS	PROPOSED ABANDONMENT (PORTION)
BYRON STREET	PROPOSED ABANDONMENT (BROAD STREET-PINE STREET)
MARY STREET	PROPOSED ABANDONMENT (LOCKWOOD STREET-BORDEN STREET)
CARVEL STREET	PROPOSED ABANDONMENT (HILLCREST AVENUE-- (BRUSH HILL ROAD)
MASHAUG PARK PROJECT	PROPOSED ABANDONMENT
TUXEDO AVENUE	PROPOSED ABANDONMENT (PORTION 200.0 SOUTH OF) (AMHERST AVENUE 125.0) (SOUTHERLY)
MATHEWSON STREET	PROPOSED ABANDONMENT (PORTION)
NIAGARA STREET	DEDICATED FOR HIGHWAY PURPOSES (PORTION)
CAMP STREET	PROPOSED ABANDONMENT (PORTION)

CAMP STREET	PROPOSED ABANDONMENT (PORTION)
CLAY STREET	PROPOSED ABANDONMENT (PORTION)
WILD STREET	PROPOSED ABANDONMENT (PORTION)
LESTER STREET	PROPOSED ABANDONMENT (PORTION)
CODDING STREET	PROPOSED ABANDONMENT (PORTION)
ORANGE STREET	PROPOSED ABANDONMENT (PORTION)
KNIGHT STREET	PROPOSED ABANDONMENT (PORTION)
PRIVATE GANGWAY	PROPOSED ABANDONMENT (BETWEEN DORRANCE AND EDDY) (STREETS, NORTH OF CLIFFORD) (STREET AND SOUTH OF FRIEND--) (SHIP STREET)
DIAZ STREET	PROPOSED ABANDONMENT (PORTION)
MERRILL STREET	PROPOSED ABANDONMENT (PORTION)
FIELD STREET	PROPOSED ABANDONMENT (PORTION)
MARTHA AND HAYDEN STREETS	PROPOSED ABANDONMENT (PORTION)
DYER AND DORRANCE STREETS	PROPOSED ABANDONMENT (PORTION)
WRISTON DRIVE	COLE AVENUE TO WESTERLY TERMINATION
RAGOSTA STREET	PROPOSED ABANDONMENT
FIELD'S POINT	OPTION TO LEASE (GEORGE MANN Co.)
BLACKSTONE STREET BATH HOUSE	PROPOSED SALE
MT. PLEASANT STADIUM PLAT	PROPOSED PLAT OF CITY LAND

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:

CARPENTER STREET
GRANT STREET
DORRANCE STREET
FOUNTAIN STREET
BOURN STREET
FRANKLIN STREET
BROAD STREET
CLAVERICK STREET
PINE STREET
CHESTNUT STREET
GREENE STREET
MATHEWSON STREET
NETOP DRIVE
STAMFORD AVENUE
SPOONER STREET

BISSELL STREET
HATHAWAY STREET
WESTMINSTER STREET
PARADE STREET
ALDRICH STREET

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

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

WINCHESTER STREET
BURLEIGH STREET
VEAZIE STREET
SHILOH STREET
HOBART STREET
BEL AIR DRIVE
HYACINTH STREET
TURNER STREET
LLOYD AVENUE
WESTMINSTER STREET
WOONASQUATUCKET AVENUE
ADELAIDE AVENUE
NIAGARA STREET
HAMILTON STREET
No. MAIN STREET
ALDRICH STREET
EMERSON STREET
ROCHAMBEAU AVENUE
STEELE STREET
BRANCH AVENUE
ADELAIDE AVENUE
DERRY STREET
LANCASTER STREET

NORTH BURIAL GROUND

DURING THE YEAR 49 DEEDS TO LOTS CONVEYED BY THE CITY AND 52 CERTIFICATES OF PERPETUAL CARE HAVE BEEN DRAWN. DESCRIPTIONS OF THE 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 TWO 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 REESTABLISHED, BUILDINGS LOCATED AND PLANS MADE FOR VARIOUS STREETS.

SURVEYS WERE MADE FOR LEASES OF CITY-OWNED LAND AT FIELDS POINT.

VARIOUS STREET LOCATIONS WERE GIVEN TO ASSIST THE NARRAGANSETT ELECTRIC CO. AND THE TELEPHONE CO. IN SETTING NEW POLES.

SURVEYS WERE MADE AND PLANS DRAWN FOR PROPOSED STREET WIDENINGS.

A SURVEY AND CROSS SECTION WAS MADE AND PLANS DRAWN FOR PROPOSED SWIMMING POOL AT NEUTACONKANUT PARK.

A SURVEY WAS MADE FOR PROPOSED NEW LEASES AT FIELDS POINT.

A SURVEY WAS MADE FOR LOCATION OF SHORE LINE AT FIELDS POINT.

SEVERAL PLANS WERE DRAWN TO ASSIST THE CITY CLERK'S OFFICE IN ACCORDANCE WITH CITY COUNCIL ORDINANCES.

MAPS WERE MADE AND CHARTS PREPARED FOR SNOW REMOVAL ROUTES.

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 ACCIDENT AND MURDER CASES.

THE ANNUAL CHART SHOWING THE INCIDENCE OF CERTAIN CONTAGIOUS DISEASES WAS PREPARED FOR THE USE OF THE HEALTH DEPARTMENT.

THE ANNUAL TABULATION OF ALL REAL ESTATE OWNED BY THE CITY, SHOWING THE SEVERAL CLASSIFICATIONS ACCORDING TO USAGE, INCLUDING CURRENT VALUATIONS FURNISHED BY THE CITY ASSESSORS WAS PREPARED AND GIVEN TO THE CITY CONTROLLER FOR INCLUSION IN THE CONTROLLER'S ANNUAL REPORT.

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 TO 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 ASSISTANCE 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, TAX ASSESSOR'S OFFICE, REDEVELOPMENT AGENCY, WATER DEPARTMENT AND BUILDING INSPECTION DIVISION, FROM TIME TO TIME.

SURVEYS WERE MADE FOR LEASES OF CITY-OWNED LAND AT FIELDS POINT.

A SURVEY WAS MADE TO LOCATE THE STATE HARBOUR LINE AT FIELDS POINT.

LINES WERE ESTABLISHED ON WARDLAW COURT AT THE REQUEST OF THE SEWER DEPARTMENT.

SURVEYS WERE MADE AND ELEVATIONS WERE TAKEN AT THE NEW DEVELOPMENT AT ROGER WILLIAMS PARK FOR SEWER, GAS AND WATER LINES AND POLE LOCATIONS FOR N. E. TELEPHONE Co. GRADES WERE MARKED AND LINES ESTABLISHED ON THE FOLLOWING STREETS:

POTTER DRIVE	FROM HAMLIN STREET TO THURSTON STREET
NETOP DRIVE	FROM THURSTON STREET TO ITS SOUTHERLY TERMINATION
THURSTON STREET	FROM STAMFORD AVENUE TO ITS EASTERLY TERMINATION
SPOONER STREET	FROM STAMFORD AVENUE TO NETOP DRIVE
STAMFORD AVENUE	FROM SPOONER STREET TO ITS SOUTHERLY TERMINATION

A SURVEY WAS MADE AND PLANS WERE DRAWN SHOWING THE RELOCATION OF GRAVES AT NORTH BURIAL GROUND IN CONNECTION WITH ROUTE 95 CONDEMNATION.

A SURVEY WAS MADE AT THE MANTON AVE. DUMP FOR LOCATION OF SEWER EASEMENT.

A SURVEY AND CROSS SECTION WAS MADE AND PLANS WERE DRAWN FOR NEW PLAYGROUND AT FIELDS POINT.

A SURVEY WAS MADE AND PLANS WERE DRAWN FOR THE LOCATION OF A FENCE ON CITY-OWNED LAND ON MANTON AVENUE.

ELEVATIONS WERE TAKEN FOR PUBLIC BUILDINGS DEPT. AT ERNEST STREET GARAGE.

A SURVEY WAS MADE AND PLANS WERE DRAWN FOR LOCATION OF HARBOUR LINE AND CITY LINES OF PROVIDENCE AND EAST PROVIDENCE.

A SURVEY WAS MADE AT OBADIAH BROWN PLAYGROUND AND LAND ADJACENT TO TRIGGS MEMORIAL GOLF COURSE.

LINES WERE MARKED FOR RELOCATION OF POLES FOR FIRE ALARM SYSTEM AT ROGER WILLIAMS PARK.

A SURVEY WAS MADE FOR THE NEW LOCATION OF GALLILEO AVE. AND PLANS WERE DRAWN SHOWING THE SEWER LINES IN THE AREA.

LINES AND GRADES WERE MARKED FOR WATER DEPARTMENT ON WARDLAW COURT.

STREET LINES WERE RE-ESTABLISHED, BUILDINGS LOCATED, AND NEW PLANS WERE DRAWN FOR THE FOLLOWING STREETS:

CHALKSTONE AVENUE	FROM CHARLES STREET TO SISSION STREET
CHARLES STREET	FROM BRANCH AVENUE TO CITY LINE
JASTRAM STREET	FROM WHITFORD AVENUE TO PLEASANT VALLEY PKWY
ADMIRAL STREET	FROM HOPKINS PARK TO ANGLE NORTH OF LONGMONT STREET.
SHARON STREET	FROM WHITFORD AVENUE TO PLEASANT VALLEY PKWY

LINES WERE ESTABLISHED ON BISSELL STREET AND LEGION MEMORIAL DRIVE AND DIMARIO DRIVE AT THE REQUEST OF THE SEWER DEPARTMENT.

ELEVATIONS WERE TAKEN AND PLANS DRAWN FOR PUBLIC BUILDING'S DEPARTMENT AT THE SUMMIT AVENUE SCHOOL FOR CONSTRUCTING NEW WALL.

COMPUTATIONS FOR CUR AND FILL AT THE ROGER WILLIAMS PARK PLAT WERE MADE.

DURING THE YEAR EXTENSIVE WORK WAS DONE FOR THE BOARD OF CANVASSERS AND REGISTRATION IN PREPARING TABULATION CHARTS FOR PRIMARY AND REGULAR ELECTIONS.

HIGHWAY SECTION

WORK PERFORMED IN GENERAL IS AS FOLLOWS:

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 163 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 NINETEEN STREETS COVERING SIXTEEN 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 1,092 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 OR FOR THE BENEFIT OF INDIVIDUALS OWNING ABUTTING PROPERTY.

ASSESSMENTS. THE HIGHWAY SECTION COMPUTES ASSESSMENTS FOR CURBING AND GRADING.

PLANS AND SPECIFICATIONS, ENGINEERING FIELD WORK AND INSPECTION 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>
ALEXANDER STREET	SANTIAGO STREET TO ROUNDS AVENUE	1,583
ALICANT STREET	VETO STREET TO DOUGLAS AVENUE	432
ANDEM STREET	ACADEMY AVENUE TO BERGEN STREET	3,459
ARLINGTON AVENUE	FREEMAN PARKWAY TO LLOYD AVENUE	4,697
ARNOLD STREET	BENEFIT STREET TO GOVERNOR STREET	5,796
BERLIN STREET	CHALKSTONE AVENUE TO ANDEM STREET	1,820

CALIFORNIA AVENUE	EDDY STREET TO NARRAGANSETT BLVD.	5,707
CHURCH STREET	NORTH MAIN STREET TO BENEFIT STREET	437
CLEMATIS STREET	CHALKSTONE AVENUE TO MOLLOY STREET	1,499
CONCANNON STREET	VEAZIE STREET TO MOY STREET	500
COVELL STREET	AMHERST STREET TO ATWELLS AVENUE	1,687
CYR STREET	BROAD STREET TO ROGER WILLIAMS PARK	2,568
ELEVENTH STREET	HIGHLAND AVENUE TO TOP STREET	1,520
ERASTUS STREET	AMHERST STREET TO CHAUCER STREET	4,507
ERNEST STREET	ALLENS AVENUE TO ELLIS STREET	1,667
ETHAN STREET	DANJEL AVENUE TO FARMINGTON AVENUE	5,359
FAIRVIEW STREET	PARNELL STREET TO GRAY STREET	478
FAIRVIEW STREET	CARLETON STREET TO PEMBERTON STREET	1,373
FIFTH STREET	NORTH MAIN STREET TO HIGHWAND AVENUE	1,403
FREMONT STREET	GOVERNOR STREET TO GANO STREET	3,337
GRAPE STREET	ADMIRAL STREET TO CERES STREET	830
HALL STREET	LEDGE STREET TO NORTHUP AVENUE	2,453
HAUXHURST STREET	POCASSET AVENUE TO MAGDALENE STREET	1,418
HAZAEI STREET	ADMIRAL STREET TO DOUGLAS AVENUE	4,197
HIGHLAND AVENUE	FOURTH STREET TO SIXTH STREET	1,699
HIGHLAND AVENUE	NINTH STREET TO ELEVENTH STREET	1,620
HILLVIEW AVENUE	BRADLEY STREET TO ADMIRAL STREET	2,149
HOLLIS STREET	DIAMOND STREET TO CRANSTON STREET	1,736
HOME AVENUE	CHALKSTONE AVENUE TO MALLOY STREET	1,744
HOPE STREET	WICKENDEN STREET TO GEORGE M. COHAN BLVD.	935
JOHN STREET	GOVERNOR STREET TO HOPE STREET	2,346
JOSLIN STREET	AMHERST STREET TO ATWELLS AVENUE	1,605
KIMBALL STREET	CHALKSTONE AVENUE TO METROPOLITAN ROAD	4,077
LABAN STREET	MERINO STREET TO HEATH STREET	7,391
LANGDON STREET	BRANCH AVENUE TO CITY LINE	11,008
LAUREL COURT	LAUREL AVENUE TO EVERETT	688
LAWN STREET	CHALKSTONE AVENUE TO GLOVER STREET	2,334
LINDEN DRIVE	COLE AVENUE TO EASTERLY TERMINATION	1,377
LOVEDAY STREET	VEAZIE STREET TO ADMIRAL STREET	1,301
LUCY STREET	CLOUD STREET TO ALMIRA AVENUE	1,301
MAWNEY STREET	ELMWOOD AVENUE TO DEXTER STREET	3,103
McMILLEN STREET	HALL STREET TO SIRAVO STREET	498
MOLLOY STREET	ACADEMY AVENUE TO ROWAN STREET	2,196
MOOREFIELD STREET	POCASSET AVENUE TO PLAINFIELD STREET	6,141
MOY STREET	BRANCH AVENUE TO CONCANNON STREET	767
MURRAY STREET	PLAINFIELD STREET TO SOPHIA STREET	4,744
NEWARD STREET	ACADEMY AVENUE TO VALLEY STREET	3,660
OPPER STREET	BRANCH AVENUE TO NAHANT STREET	1,536
OXFORD STREET	EDDY STREET TO ALLENS AVENUE	3,842
PARNELL STREET	ATWELLS AVENUE TO CLOUD STREET	3,590
PETTEYS AVENUE	HARTFORD AVENUE TO KILLINGLY STREET	6,738
PRESIDENT AVENUE	GROTTO AVENUE TO COLE AVENUE	4,409
PRESTON STREET	GOVERNOR STREET TO GANO STREET	2,552
REDWING STREET	ELMWOOD AVENUE TO BUCKLIN STREET	797
RILL STREET	VALLEY STREET TO ALLSTON STREET	2,106
RIVER AVENUE	HYMER STREET TO ADMIRAL STREET	2,864
SIBLEY STREET	ALGONQUIN STREET TO CRESCENT STREET	1,102
SISSON STREET	ACTINIA STREET TO ALMIRA AVENUE	1,578
SIXTH STREET	NORTH MAIN STREET TO HIGHLAND AVENUE	1,509
SLATER AVENUE	IRVING AVENUE TO LLOYD AVENUE	1,427
STAR STREET	NORTH MAIN STREET TO BENEFIT STREET	386
STEERE AVENUE	AMHERST STREET TO MANTON AVENUE	1,006
SUMMIT AVENUE	SEVENTH STREET TO TENTH STREET	2,097
TRANSIT STREET	GOVERNOR STREET TO EAST STREET	923
UNION AVENUE	POCASSET AVENUE TO PLAINFIELD STREET	7,173

VETO STREET	ADMIRAL STREET TO ALICANT STREET	1,297
YORKSHIRE STREET	HAWKINS STREET TO LONGMONT STREET	<u>3,627</u>
	TOTAL	171,706

SPECIAL HIGHWAY RECONSTRUCTION BY CITY OF PROVIDENCE UNDER CONTRACT

<u>STREET</u>	<u>TYPE BITUMINOUS CONCRETE</u>	<u>SQUARE YARDS</u>
ATWELLS AVENUE	GILES PLACE TO VALLEY STREET	4,180
BATH STREET	CHALKSTONE AVENUE TO PROMENADE STREET	5,761
BRIGHTON STREET	COURTLAND STREET TO VINTON STREET	2,350
BROAD STREET	FARRAGUT AVENUE TO CITY LINE	5,456
BROAD STREET	PENNSYLVANIA AVENUE TO SASSAFRAS STREET	8,373
BROAD STREET	AT PUBLIC STREET	942
CARTER STREET	ELMWOOD AVENUE TO A POINT EAST OF HUNTINGTON AVENUE	1,745
DANIEL AVENUE	POCASSET AVENUE TO PLAINFIELD STREET	5,888
KENNEDY PLAZA	DORRANCE STREET TO MEMORIAL SQUARE	16,781
KNIGHT STREET	ATWELLS AVENUE TO BROADWAY	4,878
MARKET SQUARE	NORTH MAIN STREET TO SOUTH WATER STREET	941
MESSER STREET	WESTMINSTER STREET TO CRANSTON STREET	9,503
NORTH MAIN STREET	COLLEGE STREET TO STEEPLE STREET	3,484
PUBLIC STREET	BROAD STREET TO A POINT 190 FT. WESTERLY	641
RATHBONE STREET	PROMENADE STREET TO VALLEY STREET	2,512
ROBERT EMMETT SQ.		4,067
ROGER WILLIAMS AVENUE	NARRAGANSETT AVE. TO RESERVOIR AVE.	7,006
SDUTH MAIN STREET	COLLEGE STREET TO PACKET STREET	4,478
STATE STREET	SMITH STREET TO ORMS STREET	3,396
UNION AVENUE	MESSER STREET TO A POINT 40 FT. WEST OF LINWOOD AVENUE	4,791
WATERMAN STREET	189 FT. EAST OF BUTLER AVENUE TO A POINT 466 FT. EAST OF BUTLER AVENUE	984
WEST EXCHANGE STREET	ATWELLS AVENUE TO A POINT 65 FT. WEST OF ACORN STREET	<u>4,320</u>
	TOTAL UNDER CONTRACT TO M. A. GAMMINO CONST. CO.	102,477

PLANS AND SPECIFICATIONS, ENGINEERING FIELD WORK AND INSPECTION 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>
BEL AIR DRIVE	WOONASQUATUCKET AVE. TO A POINT 160 FT. WEST OF HERSCHEL STREET	1,529
GREELEY STREET	HAGAN STREET TO A POINT 80 FT. SOUTH OF ALASKA STREET	1,824
GREELEY STREET	AVENTINE AVENUE WEST TO ANGLE	353
KLONDIKE STREET	HERSCHEL STREET TO A POINT 197 FT. WESTERLY	519
RIDGEWAY AVENUE	HILL CREST AVENUE TO A POINT 243.2 FT. EAST OF MANTON AVENUE	<u>1,766</u>
	TOTAL UNDER CONTRACT TO NARRAGANSETT IMPROVEMENT CO.	5,991

BY M. A. GAMMIND CONSTRUCTION COMPANY

ATKINS STREET	REGENT AVENUE TO NORTHERLY TERMINATION	779
GREELEY STREET	80 FT. SOUTH OF ALASKA STREET TO ROBIN BROOK SEWER	1,992

LAKEVIEW DRIVE	40 FT. SOUTH OF WESTMORE STREET TO A POINT	
	177.7 FT. NORTH OF SWANTON STREET	2,715
SWANTON STREET	NIANTIC AVENUE TO LAKEVIEW DRIVE	944
TOBYHANNA STREET	NIANTIC AVENUE TO LAKEVIEW DRIVE	1,252
TOGANSETT ROAD	NIANTIC AVENUE TO LAKEVIEW DRIVE	1,702
TRUTH STREET	NELLIE STREET TO NORTHERLY TERMINATION	412
WESTMORE STREET	NIANTIC AVENUE TO LAKEVIEW DRIVE	<u>1,708</u>
TOTAL UNDER CONTRACT TO M. A. GAMMINO CONST. CO.		11,504

RECAPITULATION

BY NARRAGANSETT IMPROVEMENT COMPANY	5,991
BY M. A. GAMMINO CONST. COMPANY	<u>11,504</u>
TOTAL FOR STREETS CONSTRUCTED UNDER CONTRACT	17,495

CONSTRUCTION WAS IN PROGRESS IN THE FOLLOWING STREETS ON SEPTEMBER 30, 1963

BEVERLY STREET	FOUNTAIN STREET TO WASHINGTON STREET
CLARKSON STREET	ADMIRAL STREET TO EASTERLY TERMINATION
CROYLAND ROAD	POTTERS AVENUE TO OXFORD STREET
DIMARIO DRIVE	JASPER STREET TO NORTHERLY TERMINATION
DUDLEY STREET	PLAIN STREET TO FRIENDSHIP STREET
HAWTHORNE STREET	ELMWOOD AVENUE TO VINEYARD STREET
JASPER STREET	PORTION ALREADY PAVED TO EASTERLY LINE OF DIMARIO DRIVE
JOHNSON STREET	RUGBY STREET TO EDDY STREET
PAYTON STREET	BROAD STREET TO ROGER WILLIAMS PARK
PUBLIC STREET	EDDY STREET TO A POINT 80 FT. WEST OF I-95
SARATOGA STREET	BROAD STREET TO BAXTER STREET
SAYLES STREET	PRAIRIE AVENUE TO GORDON AVENUE
SOMERSET STREET	PINE STREET TO BROAD STREET
SPOKANE STREET	CHARLES STREET TO EASTERLY TERMINATION
WARRINGTON STREET	NIAGARA STREET TO BROAD 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>
CRARY STREET	ALLENS AVENUE TO EAST LINE UNNAMED STREET	DEC. 5, 1940	276
CUTLER STREET	NEWARD STREET TO ATWELLS AVE.	AUG. 7, 1952	206
HAMLIN STREET	PRESENT EASTERLY TERMINATION TO THE FREEWAY TAKING LINE	MAR. 19, 1964	103
HYLESTEAD STREET	PAVILION AVE. TO NORTHERLY TERMINATION	DEC. 5, 1963	528
JOY STREET	RIVER AVENUE TO WESTERLY TERMINATION	DEC. 6, 1954	400
MARCONI STREET	GALLILEO AVE. TO WESTERLY TERMINATION	JUNE 4, 1964	245
NETOP DRIVE	THURSTON STREET TO SOUTHERLY TERMINATION	MAR. 19, 1964	970
PLATTED STREET	CRARY STREET TO GLOBE STREET	DEC. 5, 1940	117
POTTER DRIVE	HAMLIN STREET TO THURSTON ST.	MAR. 19, 1964	474
REDWOOD DRIVE	CITY LINE AT LONGWOOD AVENUE TO CITY LINE AT ROYAL AVE.	MAY 6, 1960	301

SPDNER STREET	STAMFORD AVENUE TD NETOP DRIVE	MAR. 19, 1964	279
STAMFORD AVE.	SPOONER STREET TO SOUTHER LINE OF BISSELL STREET	MAR. 19, 1964	245
THURSTON STREET	WESTERLY LINE OF POTTER DR. TO FREEWAY TAKING LINE	MAR. 19, 1964	278
TRAINOR STREET	ACORN STREET TO DE PASQUALE AVE.	JUNE 20, 1935	<u>249</u>
	TOTAL		4,671

PRTITIONS TO HAVE GRADE DEFINED

<u>DATE</u>	<u>STREET AND LOCATION</u>
JAN. 20, 1955	ADIE STREET, FROM ATWELLS AVE. TO CEDAR STREET
FEB. 17, 1955	OPHELIA STREET, FROM A POINT 120 FT. S. OF THORNTON STREET TO WOLFE STREET.
JUNE 2, 1955	AUMOND STREET, FROM EDGEWOOD BLVD. TO CITY LINE
JULY 7, 1955	VESPUCCI STREET, FROM DOUGLAS AVE. TO FERNANDO ST.
SEPT. 1, 1955	QUEEN STREET, FROM LAUREL HILL AVE. TO ITS NORTHERLY TERMINATION
NOV. 3, 1955	HYMER STREET, FROM CRANDALL St. TD SEAMANS STREET
DEC. 1, 1955	DERRY STREET, FROM OREGON STREET TO GEDFFREYS COURT
MAY 3, 1956	STUKELY STREET, FROM HARTFORD AVE. TO #41 STUKELY STREET
JUNE 7, 1956	MONTICELLO STREET, FROM OPPER St. TO ROBIN BROOK SEWER
AUG. 2, 1956	LIBIA STREET, FROM FARMINGTON AVE. TO ITS TERMINATION
SEPT. 6, 1956	MINNESOTA STREET, FROM WOODWARD ROAD TO ITS TERMINATION
FEB. 7, 1957	MARIA STREET, FROM KILLINGLY STREET TO CITY LINE
MAY 16, 1957	CORSICA STREET, FROM FRUIT HILL AVENUE TO GENOA STREET
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 STREET TO TERMINATION
OCT. 3, 1957	DUKE STREET, FROM ORMS STREET TO SMITH STREET
MAY 1, 1958	YORK STREET, FROM NORTH MAIN STREET TO STEELE STREET
JULY 3, 1958	PROCTOR PLACE, FROM DOYLE AVE. TO TERMINATION
AUG. 7, 1958	SEDAN STREET, FROM ARGOL STREET TD TERMINATION
SEPT. 4, 1958	YORKTOWN PLACE, FROM LINTON STREET TO TERMINATION
NOV. 6, 1958	MYRA STREET, KILLINGLY STREET TO BOUNDRY AVE.
FEB. 19, 1959	DEERFIELD TERRACE, FROM ALGER AVE. TO TERMINATION
MAR. 5, 1959	SIBLEY STREET, FROM CRESCENT STREET TD WEST TERMINATION
APR. 2, 1959	NYE STREET, FROM IDA STREET TO MERINO STREET
JULY 2, 1959	BATTERSON STREET, FROM WALSH STREET TO BULLOCK AVE.
JULY 2, 1959	BULLOCK AVENUE, FROM BATTERSON STREET TO CITY LINE
JULY 2, 1959	HENNESSEY STREET, FROM SAINT THOMAS STREET TO BULLOCK AVE.
JULY 2, 1959	ROWLEY STREET, FROM BATTERSON STREET TO HENNESSEY STREET
JULY 2, 1959	TRIGGS STREET, FROM WALSH STREET TO BULLOCK AVE.
JULY 2, 1959	WALSH STREET, FROM BATTERSON STREET TO HENNESSEY STREET
MAR. 3, 1960	WAYLAND AVENUE, FROM PITMAN STREET TO ITS SOUTHERLY TERMINATION
MAR. 3, 1960	UNNAMED GANGWAY FROM PETER STREET TD LEDGE STREET
SEPT. 1, 1960	OWEN STREET, FROM MANTON AVENUE TO KING STREET
FEB. 16, 1961	EAST GEORGE STREET, GANO STREET TO BUTLER AVENUE
APR. 20, 1961	HASWELL STREET, EDDY STREET TO EASTERLY TERMINATION
MAY 18, 1961	SHAW STREET, LANGDON STREET TO LAKESIDE STREET
AUG. 10, 1961	CELIA STREET, HARTFORD AVENUE TD NORTHERLY TERMINATION
AUG. 10, 1961	LAKESIDE STREET, SHAW STREET TO EVERSON STREET
AUG. 10, 1961	DOROTHY AVENUE, WEST LINE ROBIN BROOK SEWER TO CHARLES St.
JAN. 18, 1962	DIPIPPO STREET, KILLINGLY STREET TD ITS TERMINATION
FEB. 15, 1962	SHAW STREET, EASTERLY LINE OF LAKESIDE St. WESTERLY TO ITS WESTERLY TERMINATION

MAR. 1, 1962	UNNAMED GANGWAY EAST OF HAVANNA ST. WESTERLY TO THE CITY LINE
JUNE 7, 1962	DAKOTA STREET, WOODWARD ROAD TO TERMINATION
AUG. 2, 1962	CAVALLATTI STREET, FARMINGTON AVE. TO ITS TERMINATION
AUG. 8, 1963	STILLWATER AVENUE, BRIGHTWOOD AVE. TO CITY LINE
FEB. 20, 1964	THURSTON STREET, STAMFORD AVE. TO THE WESTERLY LINE OF POTTER DRIVE
MAR. 19, 1964	MOLTER SYREET, FROM SERVICE ROAD #10 TO LAKEVIEW DRIVE
MAY 21, 1964	JOSEPH STREET, CITY LINE TO HAVANA STREET
AUG. 13, 1964	KING PHILIP STREET, BARBARA STREET NORTHERLY TO ROUTE 6 FREEWAY LINE
AUG. 13, 1964	STELLA STREET, BARBARA STREET NORTHERLY TO ROUTE 6 FREEWAY LINE
SEPT. 22, 1964	WARDLAW COURT, FROM WARDLAW AVE. TO ITS WESTERLY TERMINATION

PETITIONED FOR CURBING AND GRADING

<u>DATE</u>	<u>STREET AND LOCATION</u>
FEB. 17, 1955	OPHELIA STREET, FROM A PT. 120 FT. S. OF THORNTON STREET TO WOLFE STREET
MAY 5, 1955	PARK ROW, FROM EDGEWOOD BOULEVARD SOUTHERLY TO CRANSTON CITY LINE
JUNE 2, 1955	AUMOND STREET, FROM EDGEWOOD BLVD. TO CITY LINE
JULY 7, 1955	VESPUCCI STREET, FROM DOUGLAS AVE. TO FERNANDO ST.
SEPT. 1, 1955	QUEEN STREET, FROM LAUREL HILL AVE. TO ITS NORTHERLY TERMINATION
NOVE. 3, 1955	HYMER STREET, FROM CRANDALL STREET TO SEAMANS STREET
DEC. 1, 1955	DERRY STREET, FROM OREGON STREET TO GEDFFREYS COURT
MAY 3, 1956	STUKELY STREET, FROM HARTFDRD AVE. TO #41 STUKELY ST.
AUG. 2, 1956	LIBIA STREET, FROM FARMINGTON AVE. TO ITS TERMINATION
NOVE. 15, 1956	BURTON STREET, FROM BINGHAM STREET TO TERMINATION
FEB. 7, 1957	MARIA STREET, FROM KILLINGLY STREET TO CITY LINE
MAY 2, 1957	HAGAN STREET, FROM CHARLES STREET TO LANGDON STREET
JULY 11, 1957	HILLARD STREET, FROM MANTON AVE. TO PELHAM ST.
JULY 11, 1957	COWPER COURT, FROM MESSER STREET TO TERMINATION
AUG. 15, 1957	GROTTO AVE., FROM UPTON AVE. TO PORTION ALREADY RECEIVED
OCT. 3, 1957	DUKE STREET, FROM ORMS STREET TO SMITH STREET
FEB. 20, 1958	CARVER COURT, FROM 53 PLEASANT STREET TO TERMINATION
MAY 1, 1958	YORK STREET, FROM NORTH MAIN STREET TO STEELE STREET
JULY 3, 1958	PROCTOR PLACE, FROM DOYLE AVE. TO TERMINATION
SEPT. 4, 1958	YORKTOWN PLACE, FROM LINTDN STREET TO TERMINATION
SEPT. 18, 1958	TAPPAN STREET, FROM ANGLE TO ADMIRAL STREET
NOV. 6, 1958	MYRA STREET, FROM KILLINGLY STREET TO BOUNDARY AVE.
MAR. 5, 1959	SIBLEY STREET, FROM CRESCENT STREET TO WEST TERMINATION
JULY 2, 1959	BATTERSON STREET, FROM WALSH STREET TO BULLOCK AVE.
JULY 2, 1959	BULLOCK AVE., FROM BATTERSON STREET TO CITY LINE
JULY 2, 1959	HENNESSEY STREET, FROM SAINT THOMAS STREET TO BULLDCK AVE.
JULY 2, 1959	ROWLEY STREET, FROM BATTERSON STREET TO HENNESSEY STREET
JULY 2, 1959	TRIGGS STREET, FROM WALSH STREET TO BULLDCK AVE.
JULY 2, 1959	WALSH STREET, FROM BATTERSON ST. TO HENNESSEY ST.
MAR. 3, 1960	WAYLAND AVE., FROM PITMAN ST. TO ITS SOUTHERLY TERMINATION
MAR. 3, 1960	UNNAMED GANGWAY, FROM PETER STREET TO LEDGE STREET
FEB. 16, 1961	EAST GEORGE STREET, GAND STREET TO BUTLER AVE.
APR. 20, 1961	HASWELL STREET, EDDY STREET TO EASTERLY TERMINATION
MAY 18, 1961	SHAW STREET, LANGDON STREET TO LAKESIDE STREET
AUG. 10, 1961	CELIA STREET, HARTFORD AVENUE TO NDRTHERLY TERMINATION
AUG. 10, 1961	LAKESIDE STREET, SHAW STREET TO EVERSON STREET
AUG. 10, 1961	DOROTHY AVE., WEST LINE ROBIN BROOK SEWER TO CHARLES ST.

AUG. 10, 1961	GENOA STREET, FRUIT HILL AVE. TO TARANTO STREET
AUG. 10, 1961	CORSICA STREET, FRUIT HILL AVE. TO GENOA STREET
JAN. 18, 1962	DIPPO STREET, KILLINGLY STREET TO ITS NORTHERLY TERMINATION
FEB. 15, 1962	SHAW STREET, EASTERLY LINE OF LAKESIDE STREET WESTERLY TO ITS WESTERLY TERMINATION
MAR. 1, 1962	UNNAMED GANGWAY, EAST HAVANNA STREET WESTERLY TO THE CITY LINE
AUG. 2, 1962	CAVALLATTI STREET, FARMINGTON AVE. TO ITS TERMINATION
AUG. 8, 1962	STILLWATER AVENUE, BRIGHTWOOD AVE. TO CITY LINE
FEB. 20, 1964	THURSTON STREET, STAMFORD AVE. TO THE WESTERLY LINE OF POTTER DRIVE
MAR. 19, 1964	MOLTER STREET, FROM SERVICE ROAD #10 TO LAKEVIEW DRIVE
MAY 21, 1964	JOSEPH STREET, CITY LINE TO HAVANNA STREET
AUG. 13, 1964	KING PHILIP STREET, FROM BARBARA STREET NORTHERLY TO ROUTE 6 FREEWAY LINE
AUG. 13, 1964	STELLA STREET, FROM BARBARA STREET NORTHERLY TO ROUTE 6 FREEWAY LINE
SEPT. 22, 1964	WARDLAW COURT, FROM WARDLAW AVE. TO ITS WESTERLY TERMINATION

SUMMARY TO OCTOBER 1, 1964

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)	185.124	3,136,780.7
BITUMINOUS CONCRETE (NOT CURBED)	6.843	118,920.0
SHEET ASPHALT (CURBED)	60.042	1,483,683.6
SHEET ASPHALT (NOT CURBED)	0.300	4,195.0
BITUMINOUS MACADAM (CURBED)	107.518	1,652,225.0
BITUMINOUS MACADAM (NOT CURBED)	2.107	34,164.0
ASPHALT BLOCKS	0.119	958.0
BRICK	0.020	197.2
COBBLE	0.120	765.9
GRANITE BLOCKS	2.567	39,520.8
WATERBOUND MACADAM (CURBED)	1.906	33,418.0
WATERBOUND MACADAM (NOT CURBED)	<u>0.580</u>	<u>6,237.0</u>
	367.416	6,514,166.2
RECEIVED (NOT IMPROVED)	<u>1.948</u>	
TOTAL	369.364	

THE FOLLOWING WORK HAS BEEN COMPLETED DURING THE YEAR - NAMELY:

STREETS PAVED WITH NEW MATERIAL	84,121 LINEAR FEET
BITUMINOUS CONCRETE PAVEMENT LAID	270,503 SQUARE YARDS

SEWER AND STRUCTURAL SECTION

THE DUTIES OF THIS SECTION CONSISTS 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.

FIELD MEASUREMENTS WERE MADE IN SEWERS PERIODICALLY, IN ORDER TO COMPUTE THE SEWAGE FLOW FROM NORTH PROVIDENCE.

A CONTRACT FOR SEWERS IN VARIOUS STREETS BY THE FANNING & DOORLEY CONST. CO. INC. DATED JULY 12, 1963, WAS COMPLETED MARCH 2, 1964. FINAL COST EQUALLED \$164,740.30.

THE STREETS INVOLVED ARE AS FOLLOWS WITH THE COMPLETION DATES NOTED:

<u>COMPLETION DATE</u>	<u>DESCRIPTION</u>
JAN. 30, 1964	LAKEVIEW DRIVE FROM TOGANSETT ROAD SOUTHERLY TO PROPOSED RIGHT OF WAY AND SOUTHERLY IN PROPOSED RIGHT OF WAY TO SERVICE ROAD #10 AND EASTERLY IN SERVICE ROAD #10 TO RESERVOIR AVENUE.
NOV. 20, 1964	SWAN STREET FROM NEAR EDDY STREET EASTERLY TO PROPOSED RIGHT OF WAY AND SOUTHERLY IN PROPOSED RIGHT OF WAY TO MUTUAL STREET.
DEC. 5, 1963	WESTMORE STREET FROM NEAR NIANTIC AVE. TO LAKEVIEW DRIVE.

A CONTRACT FOR SEWERS IN VARIOUS STREETS BY EDWARD F. CAPALDI, INC. DATED NOVEMBER 15, 1963 WAS COMPLETED JULY 14, 1964. FINAL COST EQUALLED \$81,556.97

THE STREETS INVOLVED ARE AS FOLLOWS WITH THE COMPLETION DATES NOTED:

JAN. 31, 1964	MOLTER STREET FROM NEAR SERVICE ROAD #10 TO LAKEVIEW DRIVE
JAN. 6, 1964	DIMARIO DRIVE FROM ITS NORTHERLY TERMINATION TO JASPER STREET AND WESTERLY IN JASPER ST. TO PRESENT SEWER IN JASPER ST.
JAN. 20, 1964	LAKEVIEW DRIVE FROM NEAR SERVICE ROAD #10 TO PRESENT SEWER IN LAKEVIEW DRIVE
JAN. 6, 1964	ATKINS STREET FROM ITS NORTHERLY TERMINATION TO REGENT AVE.
MAY 13, 1964	THURSTON STREET FROM NEAR STAMFORD AVE. TO ITS SOUTHERLY TERMINATION.
MAY 18, 1964	POTTER DRIVE FROM HAMLIN STREET TO THURSTON ST.
MAY 4, 1964	NETOP DRIVE FROM NEAR HATHAWAY STREET TO THURSTON STREET
APRIL 10, 1964	SPOONER STREET FROM NETOP DRIVE TO STAMFORD AVE.

MAY 18, 1964

HAMLIN STREET FROM NEAR POTTER DRIVE TO STAMFORD AVE.

JUNE 5, 1964

STAMFORD AVENUE FROM NEAR SPOONER STREET TO SOUTHERLY STREET LINE OF BISSELL STREET

A CONTRACT FOR SEWERS IN VARIOUS STREETS BY THE D'ERCOLE CONST. CO., INC. DATED JULY 10, 1964. THE VALUE OF THE WORK DONE TO DATE EQUALS \$12,961.00.

THE STREETS INVOLVED ARE AS FOLLOWS, WITH THE COMPLETION DATES NOTED:

<u>COMPLETION DATE</u>	<u>DESCRIPTION</u>
SEPT. 30, 1964	JOSEPH STREET-FROM ITS WESTERLY TERMINATION TO HAVANA STREET THEN SOUTHERLY IN HAVANA ST. TO PRESENT SEWER IN LUBEC STREET
AUG. 25, 1964	MARCONI STREET-FROM WESTERLY TERMINATION TO GALLILEO AVENUE
SEPT. 9, 1964	WHITEHALL STREET-FROM SOUTHERLY TERMINATION TO UNION AVENUE
SEPT. 9, 1964	LEGION MEMORIAL DRIVE-FROM NEAR ITS SOUTHERLY TERMINATION TO SUNSET AVENUE.

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, 1963 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 AKERMAN ST.
293-1951	WHITE STREETM FROM POWELL STREET TO COLLYER ST.

List No. 2

SEWERS PETITIONED FOR AND REFERRED TO THE PUBLIC WORKS COMMITTEE FOR FURTHER ACTION, FROM OCT. 1, 1951 TO SEPTEMBER 30, 1964.

OCT. 2, 1952	OKIE STREET, FROM ITS WESTERLY TERMINATION TO BATH STREET
APR. 16, 1953	MYRA STREET, FROM NEAR BOUNDARY AVE. TO KILLINGLY ST.
JULY 1, 1954	BULLOCK AVE., FROM CITY LINE TO DUNBAR STREET
SEPT. 2, 1954	GROTON STREET, FROM DURFEE ST. TO POWHATTAN ST.
JULY 7, 1955	VESPUCCI STREET, FROM FERNANDO ST. TO DOUGLAS AVE.
SEPT. 1, 1955	QUEEN STREET, FROM ITS NORTHERLY TERMINATION TO CLEVELAND ST.
NOV. 3, 1955	HYMER STREET, FROM NEAR SEAMANS ST. TO CRANDALL ST.
DEC. 1, 1955	DERRY STREET, FROM NEAR GEOFFREYS COURT TO OREGON ST.
MAY 3, 1956	STUKELEY STREET, FROM ITS NORTHERLY TERMINATION TO HARTFORD AVE.
AUG. 2, 1956	LIBIA STREET, FROM THE CITY LINE TO FARMINGTON AVE.
FEB. 7, 1957	MARIA STREET, FROM KILLINGLY STREET TO THE CITY LINE
JUNE 6, 1957	COWPER COURT, FROM ITS TERMINATION TO MESSER STREET
SEPT. 4, 1958	YORKTOWN PLACE, FROM ITS TERMINATION TO LINTON STREET
JULY 2, 1959	HENNESSEY STREET, FROM BULLOCK AVENUE TO ST. THOMAS ST.

AUG. 6, 1959	COMO STREET, FROM ITS NORTHERLY TERMINATION TO LEDGE S.
MAR. 3, 1960	WAYLAND AVENUE, FROM EAST GEORGE ST. TO SOUTHERLY TERMINATION
MAR. 3, 1960	UNNAMED GANGWAY FROM PETER STREET TO LEDGE ST.
FEB. 16, 1961	EAST GEORGE ST. FROM NEAR WAYLAND AVE. TO BUTLER AVE. AND IN BUTLER AVE. FROM EAST GEORGE ST. TO PITMAN ST.
FEB. 16, 1961	HOWE STREET, FROM NIANTIC AVE. TO LAKEVIEW DRIVE.
APR. 20, 1961	JORDAN STREET, FROM WESTMORE ST. TO RESERVOIR AVE.
APR. 20, 1961	HASWELL STREET, FROM APPROXIMATELY 300 FEET EAST OF EDDY ST. TO EDDY STREET.
AUG. 10, 1961	GENOA AVE. FROM NEAR TARANTO STREET TO FRUIT HILL AVE.
AUG. 10, 1961	CORSICA STREET, FROM NEAR GENOA AVE. TO FRUIT HILL AVE.
SEPT. 21, 1961	GAGE STREET, FROM NEAR SAMOSET AVE. TO VICTORIA STREET
JAN. 18, 1962	DIPIPPO STREET, FROM ITS NORTHERLY TERMINATION TO KILLINGLY ST.
MAR. 1, 1962	UNNAMED GANGWAY EAST OF HAVANA ST. WESTERLY TO CITY LINE
AUG. 2, 1962	CAVALLATTI ST. FROM ITS SOUTHERLY TERMINATION TO FARMINGTON AVE.
MAY 2, 1963	CLARKSON STREET FROM NEAR ADMIRAL ST. TO ITS EASTERLY TERMINATION AND NORTHERLY IN RIGHT OF WAY TO SUFFOLK ST.
AUG. 8, 1963	STILLWATER AVENUE FROM NEAR CITY LINE TO BRIGHTWOOD AVE.
MAY 7, 1964	KINFIELD STREET FROM NEAR BARBARA STREET TO ROUTE #6 EXPRESSWAY
AUG. 13, 1964	VERDIC AVENUE FROM NEAR CITY LINE TO KILLINGLY ST.

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 SYSTEM STATISTICS UP TO THE END OF THE FISCAL YEAR OF SEPTEMBER 30, 1964 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 OF HANDLING SEWAGE FLOW WAS DEVISED AND WAS CALLED THE IMPROVED SEWER SYSTEM. FROM 1890 TO 1904, 28.1511 MILES OF THIS SYSTEM WAS CONSTRUCTED WITH SIZES VARYING FROM 6 IN. TO 110 IN. IN DIAMETER. THIS SYSTEM INCLUDED THE INTERSEPTING 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 EQUATED AS OF SEPTEMBER 30, 1964 54.1605 MILES. (INCREASE THIS YEAR 1.3727 MILES)

"B" IN 1872 THE FIRST STORM SEWER CONSTRUCTION WAS STARTED AND AS OF SEPTEMBER 30, 1964 A TOTAL OF 87.1788 MILES OF SEWERS FOR STORM WATER ONLY, HAVE BEEN CONSTRUCTED AND DISCHARGED INTO THE NEAREST AVAILABLE POND OR STREAM. (INCREASE THIS YEAR 0.5515 MILES)

"C" THE TOTAL LENGTH OF THE SO-CALLED REGULAR COMBINED SEWERS AS OF SEPTEMBER 30, 1963 EQUALS 323.7018 MILES (NO CHANGE)

THE TOTAL LENGTH (A + B + C) OF ALL TYPES AND SIZES OF SEWERS MAINTAINED BY THE SEWER DIVISION OF THE PUBLIC WORKS DEPARTMENT AS OF SEPTEMBER 30, 1964 EQUALS 465.0411 MILES. (INCREASE THIS YEAR 1.9242 MILES)

INCLUDED IN THIS MILEAGE ARE APPROXIMATELY 20,250 MANHOLES, ALSO THERE ARE APPROXIMATELY 4,710 INLETS AND 11,960 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 FIELDS 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 FIELDS POINT DISTRICTS, DRAINS INTO A SMALL PUMPING STATION EQUIPPED WITH TWO AUTOMATIC ELECTRICALLY DRIVEN PUMPS, LOCATED ON CITY LAND AT FIELDS POINT JUST SOUTH OF NEW YORK AVENUE AND FROM THERE IS PUMPED THROUGH A CAST-IRON FORCE MAIN DIRECTLY TO THE SEWAGE DISPOSAL PLANT.

A PART OF THE SEWAGE FROM THE WEST ELMWOOD DISTRICTS DRAIN 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, DRAINS INTO THE RUTHERGLEN AVENUE GRAVITY FLDW SEWER.

A COMPARATIVELY HIGH LEVEL SEWER COLLECTS SEWAGE FROM THE ELMWOOD AND SOUTH PROVIDENCE DISTRICTS AND FLOWS THROUGH GRAVITY SEWERS, DIRECTLY TO THE SEWAGE DISPOSAL 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 DISPOSAL 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 DISPOSAL AND TREATMENT. SEWAGE COSTS ARE BILLED QUARTERLY AND THE FOLLOWING SHOWS THE AMOUNTS BILLED IN OUR FISCAL YEAR 1963-1964.

RECEIVED FROM CRANSTON: (NARRAGANSETT BREWING COMPANY) CONTRACT DATED JUNE 1, 1955 - TERMS \$57.00 PER MILLION GALLONS 159,751,000 GALLONS METERED AND BILLED FOR \$9,105.81.

RECEIVED FROM JOHNSTON: CONTRACT DATED MARCH 9, 1956 - TERMS \$ 57.00 PER MILLION GALLONS, 479,004,800 GALLONS, METERED, ESTIMATED AND BILLED FOR \$27,303.27.

RECEIVED FROM NORTH PROVIDENCE: FLOW MEASURED AND COMPUTED TO EQUAL 2,742,925,880 GALLONS. NEW CONTRACT DATED SEPTEMBER 8, 1959, TERMS \$100,000.00 ANNUALLY. AVERAGE DAILY FLOW EQUALS 7,494,333 GALLONS.

PRIVATE DRAINS: IN CO-OPERATION WITH THE OFFICE OF THE SANITARY ENGINEER, A COMPLETE RECORD IS MADE OF ALL SEWAGE DRAINAGE INSTALLATIONS IN PRIVATE HOUSES. 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 SEARCHES, 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 1964, THE DIRECTOR OF PUBLIC WORKS ISSUED LICENSES TO SEVEN DRAIN LAYERS AND FOUR SPECIAL FOR SPRINKLER SYSTEM LICENSES. NO LIST OF LICENSED PLUMBERS WAS RECEIVED FROM STATE AUTHORITIES. THERE WAS APPROXIMATELY 3000 TITLES INVESTIGATED FOR ENCUMBRANCES OF DRAINAGE FACILITIES BY TITLE CO. 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 UP, STENCILS CUT AND CHECKED AND THE BIDS WERE TABULATED FOR THE FOLLOWING.)

<u>BIDS SUBMITTED</u>	<u>DESCRIPTION</u>	<u>ORDERED BY</u>
OCT. 8, 1963	2100 : IN FEET GALV STEEL GUARD RAIL	HIGHWAY DIV
OCT. 15, 1963	ONE NEW 1/2 TON PICK UP TRUCK	SANITATION DIV
OCT. 15, 1963	ONE NEW 1/2 TON PICK UP TRUCK	SEWER DIV
OCT. 15, 1963	ONE NEW COMPACT SEDAN	SANITATION DIV
OCT. 15, 1963	ONE NEW COMPACT SEDAN	SEWER DIV
NOV. 12, 1963	SCREENED SAND FOR ICE CONTROL	HIGHWAY DIV
DEC. 23, 1963	DIESEL FUEL OIL GRADE #2	HIGHWAY DIV
DEC. 23, 1963	ONE NEW STATION WAGON	FORESTRY DIV
DEC. 23, 1963	REMOVAL OF 143 ELM TREES	FORESTRY DIV
DEC. 30, 1963	ONE HEAVY DUTY SALT SPREADER	HIGHWAY DIV
DEC. 30, 1963	2 -16 C.Y. GARBAGE & REFUSE TRUCKS	SANITATION DIV
DEC. 30, 1963	1-30,000 #DUMP TRUCKS WITH CRANE AND BUCKET	SEWER DIV
DEC. 30, 1963	2-30,000 #4 C.Y. DUMP TRUCKS	HIGHWAY DIV
JAN. 21, 1964	1-49,000 #-10 C.Y. HEAVY DUTY DUMP TRUCK	HIGHWAY DIV
JAN. 28, 1964	ONE NEW COMPACT SEDAN	HIGHWAY DIV
FEB. 4, 1964	REMOVAL OF 85 ELM TREES	FORESTRY DIV
MAR. 4, 1964	ONE NEW SEDAN	DIR. OF PUBLIC WORKS
APRIL 14, 1964	ONE NEW SEDAN	FAMILY & BUSINESS RELOCATION SERVICE
APRIL 21, 1964	ONE NEW BULL DOZER	HIGHWAY DIV
APRIL 7, 1964	ASPHALT CONCRETE SURFACE COURSE MIXTURE	HIGHWAY DIV
JUNE 9, 1964	4-16 C.Y. GARBAGE & REFUSE TRUCKS	SANITATION
JUNE 30, 1964	ONE NEW SEDAN	ENGINEERING DIV.

A CONTRACT WAS ENTERED INTO WITH THE FENTON G. KEYES ASSOCIATES ON FEB. 4, 1964 FOR PREPARATION OF PLANS AND SPECIFICATION SERVICES FOR SUBDIVISION IN ROGER WILLIAMS PARK AND FINAL COST WAS \$8,700.00.

A CONTRACT WAS ENTERED INTO ON DECEMBER 30, 1963 WITH ORESTO DI SAIA FOR ARCHITECTURAL SERVICES AND SUPERVISION IN CONNECTION WITH "ALTERATIONS TO SEWER MAINTENANCE BUILDING FOR GENERAL ADMINISTRATION BUILDING OF THE PUBLIC WORKS DEPARTMENT.

A CONTRACT WAS ENTERED INTO WITH CHARLES A. MAGUIRE AND ASSOCIATES ON JULY 14, 1964 FOR ENGINEERING SERVICES IN CONNECTION WITH INSPECTION AND DESIGN OF THE PROVIDENCE RIVER BRIDGES FROM EXCHANGE BRIDGE TO CRAWFORD STREET BRIDGE AND OTHER BRIDGE FACILITIES.

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 FOR \$8,202,612.00 AS OF SEPTEMBER 30, 1964, THE ESTIMATED TOTAL EQUALLED \$5,433,828.64.

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 AND ENGINEER, FRANK E. FAHLQUIST, PROVIDENCE, R. I.

MANY CONFERENCES WERE HELD IN CONNECTION WITH THE PROVIDENCE FREE WAYS, 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 Sq."	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.

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,

RICHARD E. PEZZULLO
CHIEF OF THE ENGINEERING OFFICE

CONSTRUCTION & MAINTENANCE DIVISION

Mr. Robert B. Strong
Director of Public Works
City Hall, Providence, R. I.

Dear Sir:

The expenditures of the administration section were as follows:

Item 0 Personal Services	\$6,606.50
Item 1 Services other than Personal	657.40
Item 2 Materials & Supplies	<u>11.37</u>
Total	\$7,275.27

HIGHWAY SECTION

The main duty of this section is the Maintenance of approximately 340 miles of paved streets, including the repairing, patching, sealcoating, 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	\$ 616,556.30
Item 1 Services other than Personal	165,943.41
Item 2 Materials and Supplies	173,433.95
Item 7 Other Structures & Improvements	<u>150,000.00</u>
Total	\$1,105,933.66

Revenue	44,246.73
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DRIVEWAYS & CURBING

Driveways Altered (Narrowed)	3	2' Circular Corner Set	413
Driveways Constructed	266	S.B. Corners Set	120
Driveways Widened	53	Curbs Set & Reset	5,735
Driveways Closed	52	Driveways Relocated	14

RECEIVED STREETS REPAIRED AND SURFACED OR RESURFACED 1963-1964

Total A C Tonage

			Tons
Church St.	No. Main to Benefit	250.50	"
Oxford St.	Overpass to Eddy St. & Poe St. to Allens Ave.	319.30	"
Fred C. Green Memorial Blvd.	Marion Ave. To Wentworth at Roger Williams Park	1898.85	"
Sears Ave.	Rangely to Dead End	49.10	"
Buell Court	Cambridge to Dead End	16.30	"
Fremont St.	Governor to Gano	335.15	"
Arnold St.	Benefit to Governor	1562.65	"
Transit St.	Governor to East	107.45	"
President Ave.	Grotto to Cole	481.85	"
Laurel Court	Laurel Ave. to Everett	74.60	"
Highland Ave.	Fourth to No. of Sixth	163.20	"
Hall St.	Ledge St. to Northup Ave.	273.15	"
Yorkshire St.	Hawkins St. to Longmont	459.47	"
Highland Ave.	11th to 9th Sts.	203.55	"
Langdon St.	Branch Ave. to City Line	1370.80	"
Sixth Street	No. Main to Highland Ave.	153.30	"
Alicant Street	Vito St. to Douglas Ave.	37.00	"
Andem Street	Academy to Bergin	416.90	"
Concannon St.	Douglas to Moy	5.10	"
Grape Street	Admiral to Dead Eng	95.65	"
Berlin St.	Chalkstone to Andem	252.18	"
Clematis St.	Chalkstone to Molloy	171.50	"
Cowell St.	Amherst to Atwells Ave.	219.95	"
Kimball St.	Chalkstone to Metropolitan	448.10	"
Union Ave.	Pocasset to Plainfield St.	383.33	"
Newark St.	Academy Ave. to Valley St.	540.00	"
Acorn Street Bridge		28.00	"
Star Street	No. Main St. Easterly 50'	10.10	"
Knowles St.	Abbott to Grandview	138.60	"
Ernest St.	Allens Ave. to Shipyard St.	375.05	"
Brush Hill Rd.	Ada Ave. about 150' north	53.15	"
Hope Street	Wickenden St. to Geo.M. Cohen Blvd.	120.60	"
John Street	Governor St. to Hope Incl. Intersection at Hope	247.30	"
Preston St.	Governor to Gano	250.40	"
Slater Ave.	Irving Ave. to Lloyd	224.90	"
Linden Drive	Cole Ave. easterly Term.	167.45	"
Arlington Ave.	Freeman Pkwy. to Lloyd Ave.	679.35	"
Eleventh St.	Highland to Top St.	163.60	"
Second St.	No. Main to Highland Ave.	149.80	"
Summit Ave.	Tenth St. to Near Eighth St.	280.60	"
McMillen St.	Hall St. to Siravos St.	47.40	"
Opper St.	Branch Ave. to Nahant St.	195.58	"
Fifth St.	No. Main to Highland Ave.	154.60	"
Andem St.	Vito to Douglas Ave.	412.60	"
Vito St.	Admiral St. to Alicant	172.55	"
Loveday St.	Veazie to Admiral St.	159.85	"
Rill St.	Valley St. to Allston	254.45	"
Molloy St.	Academy Ave. to Rowan	327.65	"
Home Ave.	Chalkstone to Molloy	200.97	"

Erastus St.	Manton to Atwells & Atwells Ave. to Chaucer	537.00	Tons
Lawn Street	Chalkstone Ave. to Glover	176.40	"
Moorefield St.	Pocasset Ave. to Silver Lake Ave.	345.15	"
Sisson St.	Cloud to Almira	123.10	"
Joslin St.	Amhurst to Atwells Ave.	228.00	"
Steere Ave.	Amherst to Manton Ave.	98.35	"
Moorefield	Silver Lake to Plainfield St.	521.40	"
Laban St.	Merino to Heath	1198.20	"
Mawney St.	Elmwood to Dexter	354.60	"
Cyr Street	Broad to Roger Williams Park	456.60	"
California Ave.	Eddy St. to Narragansett Blvd.	831.35	"
Ethan St.	Daniel Ave. to Farmington	556.75	"
Horace St.	Killingly St. to Hartford Ave.	91.50	"
Pettys Ave.	Hartford to Killingly St.	925.10	"
Murray St.	Plainfield St. to Sophia	608.60	"
Hauxhurst St.	Pocasset to Magdalene	207.55	"
Hollis St.	Diamond to Cranston Sts.	193.70	"
Sibley St.	Algonquin St. to Crescent	135.85	"
Redwing St.	Elmwood to Bucklin St.	199.90	"
Alexander St.	Santiago to Rounds	202.80	"

RECEIVED STREETS STARTED 1962-1963 - COMPLETED 1963-64

Hazael Street	Admiral to Douglas Ave.	394.15
Parnell St.	Entire Length	89.05
Pleasant Valley Pkwy.	Rosebank to Justice	1187.07
River Ave.	Hymers to Admiral	290.65
Hillview Ave.	Bradley to Admiral	122.10
Fairview St.	Entire Length	73.50
Lucy Street	Parnell to Almira	134.20

RECEIVED STREETS STARTED 1963-1964 INCOMPLETE SEPTEMBER 30, 1964

Hawthorne St.	Elmwood Ave. to Vineyard	40.80
Warrington St.	Elmwood Ave. to Broad	13.85
Saratoga St.	Broad to Exeter	70.15
Sayles St.	Prairie Ave. to Gordon Ave.	153.50
Somerset St.	Pine to Broad	7.7
Dudley St.	Prairie Ave. to Friendship	.00
Payton St.	Broad to Roger Williams Park	351.70
Johnson St.	Rugby to Eddy St.	149.55
Croyland Road	Potters Ave. to Oxford St.	147.90
Public St.	Eddy St. 150' easterly	45.45
Dudley St.	Prairie Ave. to Plain St.	00.00

UNRECEIVED STREETS REPAIRED AND SURFACED OR RESURFACED 1963-1964

Wild St.	Branch Ave. to Henrietta St.	121.50
Shaw St.	Langdon to Dead End	82.30
Powhatan St.	Division to Durfee	103.40
Spooner St.	Elmwood Ave. to Dead End	249.93
Grove St.	Ridge to Tobey	135.75
Benedict St.	Sorrento St. to Cranston St.	129.48
Thornton St.	Killingly St. to Dead End	16.00
Henrietta St.	Moy St. East to Dead End	36.40

UNRECEIVED STREETS REPAIRED AND SURFACED OR RESURFACED 1963-1964 (Continued)

Metcalf St.	About 60'	61.65	Tons
Moy St.	Branch Ave. to Concannon St.	89.75	"
Cato St.	Isabella to Dead End	73.80	"
Anderson St.	Manton Ave. to Curtis St.	61.35	"
Streets at Charles V.	Chapin Hospital	509.70	"
Henrietta St.	Wild to Douglas Ave.	166.50	"
Beetle St.	Rushmore to Dead End	57.40	"
Baltimore St.		37.80	"
Sorrento St.	Wadsworth to Benedict St.	36.50	"
Como St.	Ledge to Dead End	60.65	"
Seton St.	Thornton to Dead End	93.40	"
Alaska St.	Langdon to Dead End	44.55	"
Devon St.	About 200'	68.95	"
Concannon St.	Veazie St. to Moy St.	137.95	"
Yorkshire St.	Hawkins to Anchor	39.35	"
Sacramento St.	Glenbridge Westerly 248'	196.00	"
Mattie St.	Glenbridge West	67.10	"
Horace St.	Killingly Westerly 200'	91.50	"
Woodfall St.	Killingly Easterly Termination	128.05	"
Ridgeland St.	Montrose to Northup to end	49.35	"

UNRECEIVED STREETS STARTED 1963-1964 INCOMPLETE SEPTEMBER 30, 1964

Grand Broadway	Sherwood to Vandewater	256.20	"
Drew St.	Sherwood to Vandewater	62.55	"
Indiana Ave.	Allens Ave. easterly to end	49.15	"
Hagan St.	Langdon to Robin Brook	344.70	"
Briggs St.	To Dead End	6.50	"

PATCHING AND REPAIRING SUNDRY STREETS

Patching materials used for temporary repairs were purchased from private vendors. Approximately 340 miles of highway were maintained during the fiscal year. Materials used on general patching and repairing are as follows:

Ready Mixed Concrete.....	69.50 Cu. Yds.	Crushed Stone	-----
A. C. Mix.....	1,067.30 Tons	Kerosene.....	1,264. gal.
Crushed Gravel.....	104.41 Tons	Sand.....	286.00 Tons

Materials used for surfacing and resurfacing are as follows:

A. C. Mix.....	31,160.39	Tons
Cement.....	106	Bags
Crushed Stone 2".....	136.74	Tons
Kerosene.....	8,124	Gallons
Sand.....	231.00	Tons

Materials used for repair of sidewalks caused by growing tree roots and by the removal of trees having Dutch Elm Disease are as follows:

Cement.....	2,494	Bags
Gravel.....	359.40	Tons
Sand.....	646.00	Tons
A.C. Mix.....	90.10	Tons
Ready-Mix.....	167.50	Cu. Yds.

MISCELLANEOUS WORK

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

- Reconstructed base and laid asphalt at Troy Street Salt Area.
- Demolished wall and built new wall in Japanese Garden in Roger Williams Park.
- Reset curb and patched street at Walnut Street cavein.
- Graded, seeded and rolled bank at City Yard Parking Lot.
- Graded and seeded bank at Sayles and Mutual Streets.
- Removed curb and excess gravel at Saunders Street.
- Necessary curb work, two new cement sidewalks, 1 asphalt sidewalk, Cement Base of Street on Westminster Street Mall.
- Built new metal barricade on Belair Drive.
- Repaired street at expansion plate at Gaspee and Promenade Streets.
- Repaired street at expansion plate at Kinsley Avenue.
- Excavated trench to allow proper drainage to river at Kinsley Ave.
- Surfaced Acorn Street Bridge with A. C. Mix.
- Hauling fill to Fields Point and Manton Avenue Dumps.
- 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 various Veterans and Civic Organizations 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 Fields Point.

Moved and put in storage the personal belongings and furniture of many families evicted by the courts and being helped by the Welfare Department.

Cleaned River Bank along Promenade Street

Performed Permanent Maintenance on the following streets:

Leslie Drive	Concannon Street
No. Main St. to Branch Ave.	Greaton Street
No. Main St. opp. Abbott St.	State Street
Hamlin Street	Batton Street
Westminster St.	Crawford St. Bridge
Smith Street	Broad St. @ Sacket St.
Moy Street	Broadway

LAWNS AND GRASS PLANTS MAINTAINED

Oakland Avenue	Eighth St. & Lorimer Ave.
Kinsley Avenue	Slater Ave. and Goldsmith St.
North Main Street	Sewer Disposal Grounds
Franklin Square	Eddy St. and Ship Street
Elmgrove Avenue	Market Square
Chad Brown Street	Cemetery Street
Atwells Avenue	Pitman Street
Highway Building Grounds	

BRIDGE MAINTENANCE SECTION

This section is responsible for the repair and maintenance of all city-owned bridges. The expenditures of the section were as follows:

Item 0	Personal Services	\$42,598.73
Item 1	Services other than Personal	6,253.77
Item 2	Materials and Supplies	<u>11,504.01</u>
	Total	\$60,356.51
Revenue		\$283.20

There are 57 city-owned bridges, of the following 35 required work this year.

Point Street Bridge	Randall St. Bridge
Red Bridge	Pettis St. Bridge
Crawford St. Bridge	Branch Ave. Mosshasock River
So. Water St. Bridge	Cemetery St. Bridge
Gaspee St. Bridge	Charles St. R.R. Bridge
Park St. Bridge	Hawkins St. Bridge
Leland St. Foot Bridge	Branch Ave. West River from Wanskuck Rd.
Acorn Street Bridge	Veazie St. Bridge
Eagle St. Bridge	Branch Ave. at City Line (Geneva)
Atwells Ave. Bridge	Pleasant Valley Pkwy @ Roger Wms. Hosp.
Valley St. Bridge	Adelaide Ave. foot bridge over R.R.
Delaine St. Bridge	Roger Wms. Ave. Railroad Bridge
Merino Park Foot Bridge	Harris Ave. Ramp
Merino Bridge-Glenbridge Ave.	Balbo Ave. Viaduct

Smith St. Bridge
Mill Street Bridge
Stevens Street Bridge
Reservoir Ave. R.R. Bridge

Charles St. Bridge - West River
Gov. Roberts Expressway-Broadway
Exchange Terrace

The following work was done:

1. Cleaned rust and painted iron fences at Reservoir Avenue R.R. Bridge.
2. Cleaned rust and painted bridge at Adelaide Avenue.
3. Rebuilt both side walks, cleaned and painted steel supports of both sidewalks at Merino Bridge - Glenbridge Avenue.
4. Repaired wood road work, top deck and sub deck at Cemetary Street Bridge.
5. Cleaned and painted Branch Avenue Bridge-Mosshasock River.
6. Repaired wooden sidewalks on Smith Street Bridge.
7. Cleaned and painted iron fence at Hawkins Street Bridge.
8. Build wooden fence at Prospect Terrace.
9. Repaired overhead steel doors at Municipal Dock Storage Shed.
10. Repaired damaged guard rail at Governor Roberts Expressway.
11. Replaced wooden curb, repaired worn sections and painted Atwells Avenue Bridge.
12. Painted Delaine Street Bridge.
13. Rebuilt wooden sections and painted Acorn Street Bridge.
14. Temporary patch on Atwells Avenue Bridge.
15. Made Necessary repairs to Pettis Street Bridge.

SIDEWALK & CURBING SECTION

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; inspects all sidewalks 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	56
Notices served to build or repair	339
Built or repaired	133
Permits issued to build or repair	661
Sewer openings inspected	129
Construction of curb openings for driveways inspected	278
New Memorial Square Approved by Council	1
Sidewalks inspected damage due to tree roots	341

Sidewalks inspected after installation of new water service	145
Streets abandoned by Council and signs erected	30
Washout depressions inspected and repaired	346
Sidewalk Claims Investigated	34
Street Signs repainted and relettered	55
Street names changed by Council and new signs erected	1
Pole openings inspected	135
Total Lin. Ft. of Brick Sidewalk built	390
Total Lin. Ft. of Bituminous Sidewalks built	25,056
Total Lin. Ft. of cement sidewalks built	15,328

This section replaced 1300 defective street signs with new black and white metal signs.

This section had undertaken a survey throughout the entire City on defective Memorial Square Signs.

One hundred and sixty (160) signs have already been replaced. Others are being made and lettered and will be erected as soon as they are completed.

The expenditures of this Section were as follows:

Item 0 Personal Services	\$20,412.09
Item 1 Services other than personal	3,253.40
Item 2 Materials & Supplies	<u>2,398.96</u>
Total	\$26,064.45

Revenue:	
Sidewalk Contractor's Licenses	\$ 560.00

FORESTRY SECTION

This section is responsible for the planting, care, maintenance and removal of trees and shrubbery within the limits of the highways:

EXPENDITURES

Item 0 Personal Services	\$ 83,024.76
Item 1 Services other than personal	18,400.00
Item 2 Materials and Supplies	<u>3,475.00</u>
Total	\$104,899.76

Revenue	\$ 2,258.79
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Approximately one (1%) percent of the trees on our streets are diseased or in poor condition. The diseased trees are being removed and replaced by healthy young trees purchased from private tree companies. This program of demolition and replacement, the so called "Dutch Elm Program", is closely co-ordinated with the overall program for the control of this disease being pursued by the State of Rhode Island Department of Agriculture and Conservation.

Two hundred and twenty-eight (228) diseased Elm trees were condemned and removed this year. Eighty-five (85) of these trees were located on City Streets and one hundred and forty-three (143) on private property. The

Forestry Section removed all diseased Elm brush and logs to the City dump for burning. The two hundred and twenty eight diseased Elm trees were taken down under private contract.

The following is a recapitulation of the Dutch Elm trees removed:

Forestry Section removed all diseased Elm brush and logs	
E. W. Cerio Tree Service (City Streets)	85
Sepe Tree Experts (Private Property)	<u>143</u>
Total	228

The City Nursery is located at 1 Netop Drive, Roger Williams Park. It is used primarily for healing-in young trees. Trees purchased from private nurseries are healed-in the Forestry Nursery until transplanting takes place on City Streets. The young trees that are purchased are being used to replace the diseased trees which were removed and, also, to increase the shade trees on our City streets. At present there are no trees in the healing-in area.

Number of trees trimmed	10,274
Number of trees removed	956
Number of trees sprayed	7,131
Number of trees planted	1,818
Number of trees staked with metal post	1,229

SNOW REMOVAL

EXPENDITURES

Item 0 Personal Services	\$154,551.29
Item 1 Services other than Personal	108,800.72
Item 2 Materials and Supplies	<u>125,355.88</u>
Total	\$388,707.89

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.

Zone 1-2-3-8-10	By the Incinerator Trucks
Zone 4-5-6-9-13	By the Highway Dept. Trucks
Zone 7	By the Forestry Trucks
Zone 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 1963-1964 the City had 14 Snow Storms, the first on December 2, 1963 and the last on March 10, 1964 with a total of 50.6 inches. During this period the following work was completed.

Sanding Streets	18,788 Miles
Plowing Streets	21,744 "
Removal of Snow (Business area, Churches & Funeral Homes)	24,559 Cu. Yds.

The following materials were used during the year:

Sand	12,666.60 Tons
Salt	8,200.00 Tons

The following Equipment was hired from private contractors:

Trucks	207	Hours	2,575.75
Loaders	4	Hours	43.50
Low Bed	1	Hours	14.50
Bulldozer	1	Hours	14.50

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	\$255,399.55
Item 1	Services other than Personal	63,698.19
Item 2	Materials and Supplies	16,171.49
Item 5	Capital Outlay	312.50
Item 7	Other Structures & Improvements	125,000.00
	Total	<u>\$460,581.73</u>
Revenue		\$ 942.92

MAINTENANCE AND CONSTRUCTION WORK PERFORMED

Box Chute Covers Replaced	16
Box Chutes repaired and rebuilt	52
Catch Basin Covers replaced	61
Catch Basin Frames replaced	4
Catch Basins repaired and rebuilt - Altered	42
New Catch Basins built	5
Catch Basins lowered to grade	4
Catch Basin frame and cover reset	6
Manhole covers replaced	130
Manhole frames replaced	8
Manhole frames and covers reset	20
Manholes rebuilt and repaired	7
Manhole covers cemented	28
Manhole covers packed	310
Inlet stones replaced	30
Inlet stones repaired	7
Inlet stones reset	1
Traps replaced (New and Used)	33
Gutter Grates replaced, frame and cover	2
Gutter Grate frame and covers reset	4
Repaired Sewer Gate	1
Pot Holes raised to grade	1
Sewer Lines Examined	436
Screens Flushed	180

Roots removed from Basin Walls	8
Inspection and Examination of various Sewer Appurtenances	314
Basins Disinfected	145
Slots freed	7
Freed blocked house connections	18

Basins, Gutter Grates and Sumps Cleaned: Deposits Removed,
Lines Flushed, and Complaints Received

Basin Inspection	18,826	
11,944 Catch Basins Cleaned	24,368.22	Cu. Yds.
84 Sumps Cleaned	170.83	Cu. Yds.
929 Gutter Grates Cleaned	667.08	Cu. Yds.
34 Pot Holes Cleaned	29.10	Cu. Yds.
336 Open Drains Cleaned	1,344	Ft.
5,000 Complaints Received	All Cleared	
Sewer Lines Flushed	16,670	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	Extensions
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WORK PERFORMED IN CONJUNCTION WITH HIGHWAY SECTION

Catch Basins brought to grade	13
Manholes brought to grade	132

SPECIAL WORK

Alton Street and Harrion Road. Replaced 6' of 8" Sewer Line.

181 Rutherglen Ave. Freed clogged stack pipe over main line.

Gorham Mfg. Co. Excavated sanitary line, manhole. Raised manhole to grade.

Sewerage Pumping Station. Removed glass slabs from building.

Lorimer Ave. Basin and inlet changes per specifications City Engineers Office plate number #062655.

Overhill Road. Basin and inlet changes per specifications City Engineers Office Plate number #062655.

Methyl Street. Basin and inlet changes per specifications City Engineers Office Plate number #062655.

Ogden St. Basin and inlet changes per specifications City Engineers Office Plate number #062655.

Atkins Street. Blessed Sacrament Convent. Manholes blocked causing sewerage to back up into cellar of Convent. Three manholes were cleaned and nine yards of dirt and debris removed. 300' of sanitary line flushed. Floors of seven rooms were cleaned.

Valley St. Drum at Valley and Tippercanoe Street cleaned and flushed once a month.

Blackstone Street at Prairie Avenue, repaired main sewer line.

Pavilion Ave. West of Eddy - Repaired basin connections.

1344 Chalkstone Ave. Abandon present inlet and dug old connection from inlet to catch basin.

Armstrong Ave. and Ann St. - Cut rabbit in cover of stone head.

Superior Street - Sewerage backing into cellar obstruction in stand pipe. Freed obstruction.

Service Road - Excavated trench found broken pipe, repaired and back filled.

Grosvenor Ave. - Excavated Trench to find condition of Sewer Line. Line running in good condition. Back filled trench.

31-34 Wainwright Street - Domed catch basin proposed relocated curb opening. Built gutter grade basin in front of said basin.

Brook Street - Rebuilt outfall.

53 Diamond Street - Cut new rabbit and stone head. Replaced basin frame and cover.

Hamburg Ave. & Burrington Street - Put rubber stopper in sewer line, repaired sewer line.

Allens Avenue - North of Overpass at Thurbers Ave. - Dug ditch so water will flow toward river.

Narragansett Playground - Excavated trench 15' x 16' x 16', put sheathing. Repaired brick sewer line and back filled.

Ives Street - Excavated trench to find condition of connection. Connection found to be full of roots, impossible to root connection, removed old pipe and replaced with 14' of 6" sewer pipe. Back filled.

Elmwood Ave. - Excavated to find condition of sewer line, found an opened joint. Repaired and back filled.

Brook Street - Excavated trench, found broken 30" pipe, laid 12' of 30" pipe, also found lateral line dropped causing 8' x 4' depressions under sidewalk and street, replaced 20' of 6" sewer pipe. Flush remainder of connection and back filled.

Falconer Street - Install 678' of 15" sewer line, also build new manhole.

Manton Ave. Dump - Laid 220' of 30" reinforced concrete sewer pipe.
(Extension of storm lines).

176 Massachusetts Ave. - Removed roots from storm line with rodding machine.

Blackstone Blvd. - Excavated trench, found broken sewer line, laid 35' of 12" sewer line, built new manhole and back filled.

Sinclair Avenue - Rutherglen Ave., Rounds Ave., Bulkhead 12 basins inlets.

430 Charles Street - Lowered manhole to grade in front of gas station.

Fox Point School - Clean all pot holes in school yard.

Allens Ave. - Replaced 8" chute connection.

Narragansett Ave. - Freed 240' of sanitary line using rodding machine.

State St., Smith St. - Blocked chute, post of stop sign driven into chute, excavated, removed post and replaced pipe.

Ernest St. and Cass St. - Bulkheaded manhole on west side of street.

159 Progress Ave. - In answer to taxpayer's complaint, examined condition, water seeping into cellar, found to be the responsibility of the taxpayer.

General - In answer to taxpayer complaints, examination of loose covers were made; many of these covers were found to belong to other departments and companies, such as: Water Works, Gas Co., Telephone Co.

Fire Department Calls - Sewer Dept. eductor trucks were called upon many times during the year to pump out basins that were filled with water and debris due to fires at various locations. Also to pump gasoline from basin due to automobile accidents.

Police Department Calls - Eductor trucks were called upon to pump basins so that various objects could be removed, such as keys, watches, dead and live animals, etc.

General Records are not kept of the number of traps and chutes cleaned throughout the year, but the number of such examination and cleaning would run into thousands.

PUBLIC BUILDING SECTION

The following are the expenditures for the fiscal year ending September 30, 1964:

Item 0	Personal Services	\$ 90,050.38
Item 1	Services other than Personal	10,941.58
Item 2	Materials and Supplies	974.69
Item 5	Capital Outlay	496.60
	Total	<u>\$102,463.25</u>

During the year we supervised the construction of

Danforth Street Recreation Center
Tockwotton Park Swimming Pool
Neutaconkanut Hill Park Swimming Pool

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

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

Althea Street	Alterations to Main Entrances
Althea Street	Plastering in classrooms
Berkshire Street	Weatherstripping and Window Repairs
Broad Street	New Masonry Treatment
Fox Point Elementary	Re-tubing of No. 1 and No. 2 Boilers
Gilbert Stuart Jr. High	Installation of Plumbing Materials
Laurel Hill Avenue	Re-tubing of No. 2 Boiler
Manton Avenue	New Chain Link Fence
Mount Pleasant Stadium	Painting Floodlight Poles
Nathan Bishop Jr. High	Re-tubing of No. 4 Boiler
Nathan Bishop Jr. High	Replacement of Boiler Firebox doors and frames
Nathan Bishop Jr. High	New Roof over Auditorium
Samuel Bridgham Jr. High	Repairs to Cornices
Vineyard Street School	Masonry Treatment
Webster Avenue	Rebuilding Brick Chimney
Windmill Street	Re-tubing of No. 2 Boiler

Work done by this Division for other departments:

for Bureau of Police and Fire:

Headquarters Building	Replacing of broken glass throughout building
" "	Miscellaneous Carpentry, Plumbing and Electrical repairs
Chad Brown Station	Removing Antennas

also, at Chad Brown alterations for Carpenter Shop including carpentry, plumbing, new concrete flooring, electric wiring and moving equipment.

Fire Department:

Broad Street	Masonry Repairs
Admiral Street	New Garage roof and Masonry Treatment
Allens Avenue	Roofing and Sheet Metal Work
Branch Avenue	Boiler Repairs
Broad Street	Replace condensate pump
Dexter Street Garage	Clean out sewer drain
Hartford Avenue	Roofing and Sheet Metal Work
Humboldt Avenue	Roof repairs
Messer Street	Clean out conductor lines
Mount Pleasant	Installation of new gasoline storage tanks
North Main Street	Roof Repairs
Rochambeau Avenue	Roof Repairs

For Bath Houses and Comfort Stations:

Franklin Park Bath House Boiler Repairs

and miscellaneous plumbing, heating, electrical, carpentry, painting and roof repairs where necessary at the bath houses and comfort stations.

Work done for the City Sergeant's Department including wiring specifications where necessary:

City Hall:

Board of Canvassers: Plastering, New Counter Top, Marble and Tile Repairs, Floor Repairs

also, delivery and pick up of tables and other equipment used in the September Primary; supervision of electricians hooking up voting machines and any emergency repairs.

Installation of new Electrical Fixtures in the following offices:

Board of Canvassers
Collector's Office
Assessor's Office
Purchasing Office

and miscellaneous roof repairs at City Hall and at Annex on Fountain Street as well as plumbing and electrical repairs.

For Charles V. Chapin Hospital:

Supervision of drawing of plans and specifications for Renewal of the Electric Service; supervision and inspection on Installation of Sprinkler System

Also:

Testing of fire alarm gong system
Replacing shingles on four (4) buildings
New paging announce system
Nurses' Home - Roofing Repairs
Service Building - Repairs to flashing

and Exterior Painting done by Public Buildings forces.

for Park Department:

Supervision of drawing of plans and specifications for Development of a Greenhouse Group;

Supervision and inspection on

Repairs and Renovations to Bird House
Renovations to Elephant House

Supervision of work of electrical installation of Christmas Display and

also installation of electrical work at Seal Pool.

and at Municipal Golf Course: Installation of counter grilles at Club House

For General Public Assistance:

Completed work at the Bellevue Avenue District Office for individual offices on second floor which included electrical, plumbing and painting and installation of new gutters.

Fountain Street Office Electrical Repairs
Friendship Street Office Relocation of thermostat

for the Public Works Department:

Fields Point Warehouse Installation of industrial asphalt flooring

for North Burial Ground:

Drawing of specification and plan for Memorial Monolith

Miscellaneous carpentry and painting by Public Buildings forces.

for Recreation Department:

Supervision of work for

Construction of Outdoor Basketball Courts at

Dexter Street
Knight and Tell Streets

Fences at

Regent Avenue
Clarence Street
Columbia Park
Knight Street
Danforth Street
Dexter Training Ground
Fox Point Little League Field

Drew up plans and specifications where necessary and supervised work at

Benefit St. Rec. Center Repairs to Boiler
Benefit St. Rec. Center Roof repairs
" " " " Plumbing repairs
Candace Street Playground New meter pit and lawn hydrant
Dudley Street Rec. Center Plumbing Repairs
" " " " Installation of sump pump
Joslin St. Pool Repairs to heating system and Repairs to Hot Water Pump
Neutaconkanut Hill Park New concrete retaining wall
Plain Street Rec. Center Plumbing repairs

Ridge Street
Sessions Street
Gesler Street

Alterations and repairs to fence
New Concrete Sidewalk
Rewiring of pump motor

Also:

Supervision of the drawings of plans and specifications for

Lippitt Hill Playground

also: Supervision of the work on site improvements at

Classical High Athletic Field - and installation
of fence, fine grading and cleaning up at this site.

Neutaconkanut Hill Park Little League Field - Installation of
Retaining Wall and grading.

Other work done by this department or under our supervision and
inspection:

Old Hope High - Veterans Administration Building:

Repairs to Roof
New Aluminum Entrances

War Memorial on Kennedy Plaza: Carpentry, painting and reprinting
of name plates

Lockwood Street)
Osborn Street)
Pekin Street) Installation of Steel Pipe Barriers

Kinsley Avenue Scale House Repairs to gutters and
Repairs to brick work

Animal Crematory Installation of copper
water supply line

Information House at
Kennedy Plaza Repairs to floors

Alterations and repairs at the Wickenden Street Library Building
including installation of heating system.

Drawing of plans and specifications for modernization of heating
systems at

Regent Avenue School
Webster Avenue School

and supervision of drawings of plans and specifications for modernization of
Nelson Street School.

Supervision of drawing of plans and specifications for construction of
Lippitt Hill Elementary School.

Concluded, in conjunction with Prof. Walter F. Bogner, F.A.I.A., of the Graduate School of Design of Harvard University, the architectural competition for the Classical Central Education Center. This included the setting up of exhibits at the Bank Building on South Main Street, providing heat and lighting and detective service for protection of the exhibits; supervision and preparing payments for judges and consultants in estimating and also payments to the award winners.

We are now supervising the drawing of plans and specifications for the Classical Central Education Center, the architectural contract having been awarded to the winners of the first prize in the competition who were

Harkness and Geddes, Architects
The Architects Collaborative, Inc.

This supervision includes conferences with the architect and members of the Providence School Department as well as preparing payments to the architect for services including payments for surveys of the site and borings which are done in connection with the project.

Work under construction and being done under the supervision of this Division during the fiscal year ending September 30, 1964 or brought to completion during this time amounts to approximately One Million Two Hundred Sixty-Three Thousand Eight Hundred and Eighteen Dollars (\$1,263,818.00).

Plans and specifications are under way for construction work to be done in the near future amounting to approximately Twelve Million Two Hundred Thirteen Thousand Dollars (\$12,213,000.00).

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	\$50,069.05
Item 1	Services other than Personal	894.33
Item 2	Materials and Supplies	<u>602.49</u>
	Total	\$51,565.87
Revenue		\$385.40

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, 1964 SUMMARY OF OPERATIONS FOR YEAR ENDING SEPT. 30, 1963

RED BRIDGE

	Steamers	Tow Boats	Sailing Vessels	Barges	Miscellaneous	Total No. of Vessels Year 1963-1964	Total Openings 63-64	Average time openings to close of gates (Min.)	Total No. of Vessels 1962-1963	Total Openings 62-63	Average time of opening to close of gates (Min.) 62-63
October	10	25		18	13	66	42	5.45	41	35	4.05
November	14	18		11	3	46	35	5.40	51	39	4.09
December	16	38		23	4	81	58	5.29	48	27	5.05
January	22	37		24		83	60	5.37	54	43	4.31
February		22		16		38	26	5.45	50	38	4.67
March	20	28		18		66	48	4.88	44	35	4.58
April	10	38		17		65	47	5.02	47	34	4.75
May	12	27		18	12	69	41	5.07	64	50	4.56
June	15	18		15	9	57	45	5.54	64	51	5.05
July	16	22		15	13	66	52	5.01	51	46	4.42
August	10	18	1	14	23	66	51	5.06	51	41	5.47
September	17	7	2	8	12	46	36	5.01	124	75	6.01
	162	298	3	197	89	749	541		689	514	

The following table shows the total number of craft passing through the Drawbridges beginning the year 1907:

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

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

From 1930 to date, years end September 30.

YEAR	POINT	RED	YEAR	POINT	RED
	STREET			STREET	
	BRIDGE	BRIDGE		BRIDGE	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	3,467	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	1952-54	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
	GREATEST NUMBER OF OPENINGS IN ANY ONE DAY		DAILY AVERAGE NUMBER OF OPENINGS FOR THE YEAR		
	1962-1963	1963-1964	1962-1963	1963-1964	
Red	0	10	1.17	1.57	
Point	0	0	-----	-----	

STREET LIGHTING SECTION

Street Lighting Costs

The total expenditures for the fiscal year ending September 30, 1964, for street, bridge, subway, and park lighting bills, contracted in the months stated, less all credits for outage, have been as follows:

1963-1964 Appropriation --- \$527,973.00

INCANDESCENTS AND MERCURYS

<u>1963</u>	<u>Total Bill</u>	<u>Less Outage</u>	<u>Net Cost</u>
October	41,779.78	133.78	41,646.00
November	41,913.15	204.59	41,708.56
December	42,117.55	261.00	41,856.55
<u>1964</u>			
January	42,186.86	230.02	41,956.84
February	42,428.41	194.97	42,233.44
March	42,520.03	131.77	42,388.26
April	42,568.62	89.54	42,479.08
May	40,889.01	55.62	40,833.39
June	41,095.76	55.76	41,040.00
July	41,150.35	60.47	41,089.88
August	41,240.54	83.41	41,157.13
September	41,477.30	79.00	41,398.30
	<u>\$501,367.36</u>	<u>\$1579.93</u>	<u>\$499,787.43</u>

SCHEDULES OF STREET LIGHTING DATA

	<u>O.H.</u>	<u>A.N.</u>				<u>1000 cp.</u>			<u>O.H.</u>	<u>A.N.</u>	
		<u>600 cp.</u>		<u>U.G.</u>	<u>A.N.</u>		<u>U.G.</u>	<u>H.N.</u>			
October 1, 1963		29		158			3		26		
September 30, 1964		29		112			3		7		
Changes		0		46			0		19		
				<u>Merc. 2 Lt.</u>						<u>Sodium Light</u>	
	<u>Mer. 7000Lu.</u>			<u>A.N.</u>	<u>U.G.</u>	<u>Merc. Vap.</u>	<u>O.H.</u>	<u>Merc. U.G.</u>		<u>U.G.</u>	<u>A.N.</u>
October 1, 1963	173			12		2091		1687		21	
September 30, 1964	245			5		2309		1600		21	
Changes	72			7		218		87		0	
		<u>100 cp.</u>	<u>U.G.</u>	<u>100 cp.</u>	<u>O.H.</u>	<u>Merc. Vap.</u>		<u>O.H.</u>	<u>U.G.</u>	<u>H.N.</u>	
		<u>A.N.</u>	<u>U.G.</u>	<u>H.N.</u>	<u>A.N.</u>	<u>H.N.</u>	<u>24 Hr.</u>	<u>U.G.</u>		<u>250 cp.</u>	
October 1, 1963		158	227	7766-B	9		44		512	17	12
September 30, 1964		135	227	7765	9		44		505	17	12
Changes		23	0	1	0		0		7	0	0

	<u>September 30, 1963</u>	<u>September 30, 1964</u>	<u>Changes</u>
Total number equivalent single incandescent lights	8896	8821	75
Total number mercury lights 21,000, 15,000 15000c & 7,000 Lu.	3963	3958	5
Total number equivalent single sodium lights	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 ½ 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, 1963, depended upon the cost of fuel for the year ending July 31, 1964. This cost averaged \$9.72 per standard net ton. This is \$1.03 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 10. A tabulation showing the unit prices for the year beginning October 1, 1964, is as follows:

	Annual Decrease per 10¢ Decrease in cost of fuel below \$10.75 base	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 Night	.021	10	.21	29.12	.91
U.G. Single, ½ Night	.009	"	.09	25.11	.02
Aerial Single, A.N.	.021	"	.21	16.09	.88
Aerial Single, ½ Night	.009	"	.09	10.40	.31
<u>Miscellaneous</u>					
250 C.P. U.G. A.N.	.043	"	.43	52.19	.76
250 C.P. Aerial, A.N.	.043	"	.43	32.19	.76
1000 C.P. Aerial, A.N.	.132	"	1.32	72.51	.19
1000 C.P. U.G. A.N.	.132	"	1.32	92.51	.19
1000 C.P. U.G. ½ Night	.072	"	.72	72.39	.67
250 C.P. U.G. ½ Night	.024	"	.24	43.74	.50
10,000 Lu. Sodium, U.G.	.049	"	.49	87.22	.73
10,000 Lu. Sodium, O.H.	.049	"	.49	67.22	.73
600 C.P. Incandescent, O.H.	.088	"	.88	53.57	.69
600 C.P. Incandescent, U.G.	.088	"	.88	73.57	.69
15,000 Lu. Mercury, O.H.	.097	"	.97	71.95	70.98
15,000 Lu. Mercury, U.G.	.097	"	.97	91.95	90.98
15,000 Lu. Mercury, U.G. 2 Lt.	.194	"	1.94	165.90	163.86
15,000 Lu. Merc. Underpasses 24Hr.	.275	"	2.82	132.16	120.41
21,000 Lu. O.H.	----	-	----	94.00	94.00
21,000 Lu. U.G.	----	-	----	114.00	114.00
6,800 Lu. O.H. Mercury	----	-	----	55.00	55.00
6,800 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. No new installations.

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 kilowatt 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:

1963	September.....	9.723
	October.....	9.769
	November.....	9.64
	December.....	9.774
1964	January.....	9.809
	February.....	9.695
	March.....	9.642
	April.....	9.744
	May.....	9.611
	June.....	9.645
	July.....	9.752
	August.....	9.723

The above figures show that the average price per ton for the year was 9.72 per ton

* Standard net ton

The number of lamps and globes reported as broken on street lights during the years 1962-1963-1964, is as follows:

<u>INCANDESCENT</u>	<u>LIGHTS BROKEN</u>	<u>MERC. GLOBES</u>
1962-1963	5458	95
1963-1964	5434	142

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 Light</u>	<u>Hours of Burning</u>
12 U.G.	20,000 Lumen M.V.	24 Hours
14 U.G. A.N.	20,000 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. 20,000 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, 1963	3520 K.W.	85.97
November, 1963	3600 K.W.	87.74
December, 1963	6280 K.W.	122.53
January, 1964	6680 K.W.	119.22
February, 1964	6380 K.W.	118.10
March, 1964	5840 K.W.	112.10
April, 1964	5040 K.W.	97.44
May, 1964	5380 K.W.	100.61
June, 1964	4760 K.W.	94.20
July, 1964	4860 K.W.	95.45
August, 1964	5180 K.W.	98.38
September, 1964	3520 K.W.	81.64
		<u>1214.38</u>

SIGN INSPECTION

Signs inspected for overhead wire clearance 412

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

NUMBER AND KIND OF STREET LIGHTING UNITS IN SERVICE IN PROVIDENCE

SINCE 1935

Year	ARCS Bridge Structure 24 Hr. Burning	INCANDESCENTS				SODIUM		MERCURY			
		6.6A	5.5A 100 cp.	250 cp.	1000 cp.	600 cp.	1000 cp.	15000 Lu.	15000 Luc.	7000 Lu.	21000 Lu.
1935		1746	8727	8	130						
1936		1697	8691	8	214						
1937		1697	8703	8	214						
1938		1628	8724	8	320						
1939		1626	8735	8	328						
1940		1619	8746	8	331	29	25				
1941		1513	8727	8	508	29	25				
1942		1513	8731	8	598	29	25				
1943		1513	8731	8	540	29	25				
1944		1499	8741	8	540	29	25				
1945		1485	8756	8	540	29	25				
1946		1364	8513	8	554	29	26	19			
1947		1264	8709	8	568	29	26	179			
1948		1199	8687	8	568	29	26	256			
1949		750	8624	115	586	29	25	1049			
1950		514	8701	116	550	29	25	1556			
1951		298	8721	162	560	29	25	1855			
1952		124	8668	226	565	29	25	2360			
1953		36	8671	251	504	29	25	2802			
1954	44	0	8308	314	506	29	25	3293			
1955	44	0	8277	414	449	29	25	3428			
1956	44	0	8228	447	435	29	25	3476			
1957	44	0	8248	489	391	29	25	3501			
1958	44	0	8192	484	349	29	25	3570			
1959	44	0	8236	512	348	29	22	3593		7	
1960	44	0	8244	519	345	29	22	3623		42	
1961	44	0	8212	547	331	29	21	3607		88	
1962	44	0	8122	536	309	29	21	3567		118	12
1963	44	0	8139	541	187	29	21	2754	825	173	231
1964	44	0	8136	534	122	29	21	1081	2311	245	321

* 15000 Lu. C Means A 21000 Lu. Mercury Vapor Lamp Installed-In An Existing 15000 Lu. Mercury Designed Luminaire

RECAPITULATION

Grand Total	499,787.43
Total monthly average cost 1962-1963	40,931.00
Total monthly average cost 1963-1964	41,648.95
Increase from previous year of the Monthly Average	717.95
Total savings in outages	1,579.93

<u>New Street Light Petitions Received</u>	<u>Granted</u>	<u>Rejected</u>	<u>Hold</u>
70	60	3	7
<u>Utility Pole Petitions Received and Field Checked</u>			192

SUMMARY

There are now 1081, 15,000 lumen mercury vapor lights in service.

There are now 2311, 15,000c lumen mercury vapor lights in service.

There are now two hundred and forty five (245) 7000 lumen mercury

There are now 321 21,000 lumen mercury vapor lights in service.

The number of 2,500 lumen incandescent lights have been decreased by seven (7), bringing the total number of this type of light now in use to 534.

There are one hundred and twenty two (122) 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 one hundred and thirty six (8136) 1000 lumen lights in service (familiar neighborhood type). There have been 60 lights of this type installed during the past fiscal year, on street light petitions.

EXPENDITURES

Item 0. Personal Services	\$5,408.00
Item 1. Services other than personal	\$500,515.43

SHOPS & STORES

The Construction and Maintenance Shops and Stores services completely all sections of the Public Works Department, except the Sanitation Division and the Sewer Construction and Maintenance Sections. The Sanitation Division and Sewer Construction and Maintenance are furnished with material and supplies only.

The Sewer Construction and Maintenance Shops and Stores services only the Sewer Construction and Maintenance Section, and the passenger cars rented to the Construction and Maintenance Administration.

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 costs for the rental equipment of these sections.

A detailed resume of the activities of each section is as follows:

CONSTRUCTION AND MAINTENANCE SHOPS AND STORES

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 following sections and divisions:

Public Works Administration	Bridge Maintenance Section
Public Service Engineer	Snow Removal Section
Engineering Office	Forestry Section
Business Management Office	Sidewalks and Curbing Section
Highway Section	Public Building Section
Drawbridge Operation Section	Street Cleaning Section
Street Lighting Section	Family Relocation Service

This section also has the responsibility of procuring all material and supplies for the following sections:

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

A list of the available rental equipment is as follows:

1 Dump Truck 10 cu. yds.	1 Hoist Truck 5000#
2 Compressors, Truck Mounted	2 Bulldozers TD 18
33 Dump Trucks, 4 cu. yds.	1 Sky Worker
5 Dump Trucks, 6 cu. yds.	1 Welder, Electric Portable

5 Dump Trucks, 3 cu. yds.	2 Shovels, 3/4 cu. yds.
3 Pickup Trucks, 3/4 ton	6 Road Graders
1 Stake Body Truck, 1 ton	2 Mist Sprayers
1 Panel Truck, 1/2 ton	2 Concrete Mixers 3S
1 Express Body Truck 2 1/2 ton	9 Street Sweepers
1 Express Body Truck 1/2 ton	9 Snow Loaders
3 Cargo Trucks, 6 ton	5 Lawn Mowers, Power
10 Passenger Cars	21 Tail Gate Spreaders
7 Air Compressors, Portable	80 Snow Plows
1 Trailer 25 ton Flatbed with Tractor	
1 Gradall	4 Front End Loaders
1 Station Wagon	2 Rollers 10-14 ton Tandem
2 Hoist Trucks 2500#	1 Fork Lift
1 Roller 8-12 ton Tandem	1 Roller 10-12 Tandem
1 Roller 10-12 ton 3 Wheel	1 Paver, Asphalt
1 Roller 305 ton Portable	3 Tool Heaters
2 Walters Snow Fighters	6 Generators, Portable
2 Rollers 305 ton Tandem	6 Tool Wagons
1 Tar Kettle 3 Leaf Collectors	3 Spreader Mounted

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

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

2 Dump Trucks 4 cu. yds.	3 Spreaders
1 Front End Loader	1 Packing Truck
1 Station Wagon	1 Generator
4 Automobiles	1 Tar Kettle
1 Dump Truck 10 cu. yds.	2 Sweepers
1 Angeldozer	

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
1 Bulldozer TD 9	City Dump
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 \$82,208.93 in materials and supplies and parts was on hand in the stock room on September 30, 1963.

SEWER CONSTRUCTION AND MAINTENANCE SHOPS AND STORES

This section has no budget allowance. All operating expenses for labor and materials are paid for with the money received from the equipment rentals and for the 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 Construction and Maintenance Administration and the Sewer Construction and Maintenance Section. All automotive and construction equipment used by these sections is obtained from this section on a rental basis.

A list of available rental equipment is as follows:

4 Eductors	4 Air Compressors-Portable
4 Derrick Trucks	3 Centrifugal Pumps (6 in.)
4 Passenger Cars	1 Centrifugal Pump (4 in.)
4 Dump Trucks	2 Centrifugal Pumps (3 in.)
1 Cargo Truck (2 ton)	1 Diaphragm Pump (4 in.)
2 Pickup Trucks	1 Centrifugal Pump (1½ in.)
1 Set of Sewer Wrenches	1 Sewer Rod Power Driver
1 Electric Generator	1 Diaphragm Pump (3 in.)
1 Utility Truck	1 Diaphragm Pump (2 in.)

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

In addition to rental equipment in the pool this section, through the carpenter shop, repairs and maintains all tools, buildings, sewer gates, etc., for which the Sewer Maintenance Section is responsible. Some work for agencies outside the Sewer Maintenance Section is performed primarily by the carpenter shop.

The work, in either case is paid for by the agency concerned, by paying for the total cost of both labor and materials plus 10% of the total cost. The revenue thus earned is used to defray the cost of operation plus the cost of equipment replacement.

The Public Works stock room carries much of the material, parts and supplies required by the Sewer Maintenance Section & Revolving Fund. An inventory of \$82,208.93 in material and supplies and parts was on hand as of September 30, 1964.

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

1 Automobile	1 Derrick Truck
1 Utility Truck	1½ ton Pickup Truck

SANITATION DIVISION

Mr. Robert B. Strong
Director of Public Works
City Hall
Providence, Rhode Island

Dear Mr. Strong:

Attached hereto is the annual report of the Sanitation Division of the Public Works Department for the fiscal year 1963 - 1964.

This Division is divided into the following Sections:

Sanitation Administration	Sewage Treatment
Street Cleaning	Refuse Collection and Disposal
Sewage Pumping	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	\$13,535.01
ITEM 1	Services Other Than Personal	5,203.60
ITEM 2	Materials and Supplies	<u>23.34</u>
	TOTAL	\$18,761.95

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 Square
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 Ives 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
 Butler Avenue from South Angell Street to Waterman Street
 Angell Street from Butler Avenue to Wayland Avenue
 Hope Street from Langham Road to Sixth Street
 Hartford Avenue from Laurel Hill Avenue to Olneyville Square
 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 Square Olneyville Square
 Randall Square Trinity Square
 Wayland Square Washington Square

A crew of men with hand brooms and hand push barrels are assigned to the downtown area and the outlying sections of the city to keep these sections free from debris.

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.

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

Five dual gutter broom sweepers are in service and are capable of cleaning gutters from either side of the sweeper, and are 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 Eagin Leaf Collectors and have a capacity of 10 tons. An operator and two laborers are needed for this operation.

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

A summary of operations for this section follows:

Hand Broom Sweeping	140	Miles
Machine Broom Sweeping	15,383	Miles
Beat Patrol	10,920	Miles
Hand Broom Disposal	1,530	Tons
Street Container Disposal	1,053	Tons
Machine Broom Disposal	9,097	Tons

The expenditures for this section were as follows:

Item 0	Personal Services	\$267,134.87
Item 1	Services other than Personal	78,778.38
Item 2	Materials and Supplies	<u>941.86</u>
TOTAL		\$346,855.11

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 Harbor-side Park, Fields Point.

The main pumping station on Ernest Street has a capacity of two hundred millions of gallons a day. 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	\$70,139.65
Item 1	Services other than Personal	1,852.43
Item 2	Materials and Supplies	<u>2,963.95</u>
TOTAL		\$74,956.03

SEWAGE PUMPING STATION

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

	<u>ERNEST STREET</u> <u>STATION No. 1</u>	<u>WASHINGTON PARK*</u> <u>STATION No. 2</u>	<u>RESERVOIR AVENUE*</u> <u>STATION No. 3</u>	<u>TOTAL</u>
1963				
October	1,075.0	12.0	2.0	1,089.0
November	1,298.0	28.0	28.0	1,354.0
December	1,075.0	35.0	35.0	1,145.0
1964				
January	1,361.0	35.0	35.0	1,431.0
February	1,236.0	35.0	35.0	1,306.0
March	1,285.0	35.0	35.0	1,355.0
April	1,407.0	35.0	35.0	1,477.0
May	1,209.0	35.0	35.0	1,279.0
June	1,078.0	35.0	35.0	1,148.0
July	1,371.0	35.0	35.0	1,441.0
August	1,081.0	35.0	35.0	1,151.0
September	1,142.0	35.0	35.0	1,212.0
TOTALS	<u>14,618.0</u>	<u>390.0</u>	<u>280.0</u>	<u>15,388.0</u>

*Estimated Flow

SEWAGE PUMPING STATION

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

	K.W.H.
<u>1963</u>	
October	30,900.0
November	32,800.0
December	45,400.0
<u>1964</u>	
January	47,300.0
February	41,400.0
March	126,300.0
April	135,500.0
May	29,600.0
June	29,800.0
July	27,000.0
August	27,500.0
September	28,500.0
TOTAL	<u>602,000.0</u>

SEWAGE DISPOSAL WORKS

This section is responsible for the treatment and disposal of all sewage from the City of Providence, Town of North Providence, Town of Johnston, and wastes from the Narragansett Brewing Company, Cranston, R. I. The Disposal Plant is located in the southeasterly 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.

Estimated Population Served By The Plant:

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

<u>Sewage Flow</u>	<u>Million Gallons</u>
Providence	12,804.52
Johnston	479.00
North Providence	2,742.93
Cranston (Narragansett Brewing Co.)	159.75
Total Sewage Flow	<u>16,186.21</u>

SUMMARY OF OPERATIONS

Total Flow of Sewage	16,186.21	M.G.
Average Daily Flow	44.25	M.G.
Max. Daily Flow (January 21, 1964)	105.00	M.G.
Min. Daily Flow (August 16, 1964)	23.77	M.G.
Total Air Used for Aeration	18,369.86	Mil. Cu. Ft.
Liquid Chlorine	760.45	Tons
Ferric Chloride Used	132.78	Tons
Lime as Chemlime Slurry	938.31	Tons

Total Lime Used	538.31	Tons
Grit Removals	250.2	Tons
Sludge Incinerated	23,884.0	Tons
Ash Removed From Incinerator	4,020.8	Tons
Fuel Oil Used for Operating Sludge Incinerator (#2 Oil)	219,681	Gals.
Fuel Used for Heating Administration Building (#2 Oil)	4,525	Gals.
Fuel Used for Heating Grit Building (#2 Oil)	3,782	Gals.
Fuel Used for Heating P.S.P.S. (#2 Oil)	3,911	Gals.
Fuel Used for Heating S.S.P.S. & Chlorine Bldg.	2,178	Gals.
Total Gallons # 2 Fuel Oil Used for Heating Purposes	14,396	Gals.

Gas Used for Heating Field Laboratory - 132.4 hundred cubic feet

Electric Power used from the Garbage Incinerator.

<u>1963</u>	<u>K.W.H.</u>
October	427,200
November	340,700
December	290,700
<u>1964</u>	
January	239,600
February	203,200
March	121,600
April	61,600
May	158,200
June	177,700
July	171,000
August	121,700
September	172,800
TOTAL	<u>2,486,000 K.W.H.</u>

The expenditures for the year were as follows:

Item 0	Personal Services	279,827.90
Item 1	Services Other Than Personal	175,552.30
Item 2	Materials and Supplies	149,341.03
Item 5	Capital Outlay Equipment	8.59
	Total	<u>604,729.82</u>

Supervision of the Sewage Disposal Works by the Engineering Firm of Metcalf & Eddy continued throughout the fiscal year 1963-1964.

Improvements to the Sewage Treatment facilities as recommended by the above firm of Engineers and contracted to the Hart Engineering Company will be completed during the next few months of the new Fiscal Year. The final phase of these improvements consisted of the installation of two 8' x 10' Eimco Vacuum Filters equipped with stainless steel Eimco belts with necessary appurtenances, piping and electrical controls. Upgrading and servicing of the existing B.I.F. chlorinizers and evaporators, from a maximum capacity of 6,000 lbs./day each to 8,000 lbs./day each, has been completed. The new ejector station building was completed and the new Gorman-Rupp Pumps, piping and electrical controls installed. The erection of the new 10-ton Nichols Herroshoff Incinerator, and required appurtenances as contracted to the firms of Ayers, Hagan, Booth, Inc., and Nichols Engineering Corporation is nearing completion and should be ready for operation in the early months of 1965.

The overall general efficiency of treatment showed marked improvement during the fiscal year 1963-1964. Satisfactory chlorine control of bacteria was maintained throughout the year. Seasonal removals of B.O.D. and suspended solids, especially during the second half of the fiscal year were excellent, and reflect good laboratory control of the treatment processes. The results achieved during the fiscal year 1963-1964 are outstanding as compared with previous years. Although there were evidences of sheaf forming organisms of the sphaerotilus or geotrichum species throughout the year, the concentration of these organisms was controlled to the extent that they did not become a serious factor in the treatment processes.

During the year, mechanical breakdowns resulting from normal operational wear and tear, were repaired by Plant Personnel, and several electrical failures of equipment were corrected.

GARBAGE COLLECTION AND DISPOSAL

The Garbage Collection and Disposal Section is charged with the collection and disposal of Domestic refuse and the disposal of Commercial 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. Electrical 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 and the Garbage Incinerator.

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 all residences in the City. All Automotive Equipment used, is rented from Shops and Stores Revolving Fund.

Two Garbage Incinerators, each with a capacity of 160 Tons per day, are situated in the Southeastern Section of the City in the Municipal Dock Area. Only one unit is used at a time, the other is a standby. Each unit has two Steamboilers and the steam produced is used to drive auxiliary machinery at the plant, to heat the Incinerating Plant, Sanitation Garage, and some buildings at the Sewage Disposal Works. There are two Turbo-Generators, each with a rating of 1250 K.W. Both the Incinerator and the Power Plant are in operation Twenty-Four hours per day.

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

Item 0	Personal Services	615,643.01
Item 1	Services Other Than Personal	221,413.82
Item 2	Materials and Supplies	21,822.44
Item 3	Special Items	1,250.53
		860,129.80

GARBAGE COLLECTION AND DISPOSAL

During the fiscal year 200,201 gallons of No. 6 fuel oil were used to maintain the steam pressure in times of emergency or mechanical break down. 85,000 gallons of the above amount was purchased to maintain steam pressure during snow storms.

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.

<u>1963</u>	<u>Sewage Disposal</u>	<u>Sewage Pumping</u>	<u>Municipal Garage</u>	<u>Highway Garage</u>	<u>Station Power</u>	<u>Total</u>
Oct.	427,200	30,900	13,400	15,610	62,890	550,000
Nov.	340,700	32,800	9,284	14,800	66,416	464,000
Dec.	290,700	45,400	18,000	13,750	72,150	440,000
<u>1964</u>						
Jan.	239,600	47,300	18,568	22,410	65,122	393,000
Feb.	203,200	41,400	13,400	23,620	61,380	343,000
Mar.	121,600	126,300	11,400	11,500	76,200	347,000
Apr.	61,600	135,500	12,660	16,315	67,925	294,000
May	158,200	29,600	15,600	14,380	64,220	282,000
June	177,700	29,800	5,200	12,600	67,700	293,000
July	171,000	27,000	9,800	13,020	56,580	277,400
Aug.	121,700	27,500	8,600	11,140	75,060	244,000
Sept.	172,800	28,500	8,600	11,140	63,960	285,000
<u>TOTAL</u>	<u>2,486,000</u>	<u>602,000</u>	<u>144,512</u>	<u>180,285</u>	<u>799,603</u>	<u>4,212,400</u>

GARBAGE COLLECTION AND DISPOSAL

TOTAL POWER GENERATED

K.W.H.

Average Daily Distributed Load	11,500
Average Daily Distributed Load to Sewage Disposal Works	6,800
Average Daily Distributed Load to Sewage Pumping Station	1,650
Average Daily Distributed Load to Municipal Garage	1,400
Average Daily Distributed Load to Highway Garage	500
Average Daily Distributed Load to Garbage Incinerator	2,190

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

<u>1963</u>	<u>Tons</u>
October	1,065.00
November	965.00
December	1,119.50
<u>1964</u>	
January	1,004.92
February	901.50
March	815.50
April	1,026.50
May	975.50
June	977.00
July	994.00
August	940.00
September	948.50
<u>Total</u>	<u>11,732.92</u>

The following is the total amount of Garbage and Refuse disposed of by this department from October - 1963 to September - 1964

<u>1963</u>	<u>Garbage (Tons)</u>	<u>Rubbish (Tons)</u>
October	2,829.97	2,573.00
November	2,607.47	2,063.70
December	2,676.31	2,306.03
<u>1964</u>		
January	2,668.73	2,333.92
February	2,277.84	2,205.04
March	2,575.31	1,752.72
April	2,773.61	2,017.32
May	2,764.23	2,219.70
June	2,824.77	2,219.60
July	2,770.69	2,386.18
August	2,700.48	2,088.20
September	2,856.14	2,214.64
Total	<u>32,325.55</u>	<u>26,380.05</u>

Daily average for collection based on 314 working days 102.9 Tons
 Daily average for disposal based on 366 working days 160.4 Tons

Considerable work was done on both electric cranes. The 40 H.P. motor on one crane was removed and rebuilt. Trolley pinion gears were replaced, new feeder cables were installed and trolley wires were replaced. New brake drums and shoes were installed. The resistor on one crane was repaired. New trolley wheels and shafts were installed.

The water jacket around the feeding stoker had to be almost rebuilt. New sides and stay bolts were welded in place to prevent leakage.

The arch of Unit No. 1 had to be rebuilt on an emergency basis and it was poured in place. The sump pump and the circulating water pump was repaired during the year.

Turbine No. 2 was taken down and the rotor sandblasted by the Eastern Construction Company. Routine maintenance and repair work was performed on all equipment during the year.

REFUSE COLLECTION AND DISPOSAL

The Refuse Collection and Disposal Section is responsible for the 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 this collection.

All materials collected are disposed on 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 Sanitation Shop & Stores Revolving Fund on Terminal Road.

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

The total cubic yards collected for the year follows:

1963	TOTAL
October	3,632
November	4,336
December	3,744
1964	
January	4,128
February	3,968
March	4,080
April	3,744
May	4,352
June	4,048
July	3,568
August	4,064
September	3,808
TOTAL	47,472

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

Item 0	Personal Services	\$ 93,055.58
Item 2	Services Other Than Personal	36,642.23
Item 3	Materials and Supplies	2,226.96
	TOTAL	\$131,924.77

SANITATION DIVISION REVENUE

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

Sewage Pumping Station	\$ 10.55
Sewage Disposal Section	155,447.83
Garbage Collection and Disposal	36,862.86
Refuse Collection and Disposal	50.00
TOTAL	\$192,371.24

RECOMMENDATIONS

Consideration should be given to the installation of a warning system for the detection of radio active isotopes in the sewerage system of the City. This alarm should be installed at such a point in the system that the employees at the Sewage Pumping Station and the Sewage Treatment Plant would be warned in time to protect the men on duty from radioactivity. Radio active isotopes are being used more and more these past years in industry and medicine and it is possible that they could inadvertently find their way into the Sewerage system. A Geiger counter should be on hand at the Sewage Treatment Plant.

The Bypass channels at the screen chamber of the Sewage Treatment Plant should be completely revised to prevent the disposition of grit in both channels.

The feeding and burning stokers in plant No. 1 Incinerator, should be completely rebuilt and new tracks, supports and chain stoker installed. Also in plant No. 1, the water jacket around the feeding stoker should be completely rebuilt, and the ash troughs and chutes repaired extensively.

Many of the items mentioned in last year's report are to be done with-
in the next year on a Bond issue authorized recently by the Voters of
Providence.

Respectfully submitted,

Howard F. Carpenter
Chief of Sanitation Division

HARBOR DIVISION

MUNICIPAL DOCK DIVISION

Mr. Robert B. Strong
Director of Public Works
City Hall
Providence, Rhode Island

Dear Sir:

Following is the Annual Report covering activities of the Municipal Dock for the year ending September 30, 1964.

Again we show a healthy increase in both tonnage and revenue.

With the availability of additional land at the south end of the Municipal Wharf the prospects are good for further increase in tonnage and revenue in the very near future.

REVENUE

Lease of Storage Warehouse.....	\$ 69,957.91
Land.....	87,205.02
Telephone.....	105.08
Trackage.....	5,613.75
Sale of Water.....	1,663.09
Dockage.....	114,810.47
Sale of Electricity.....	40.00
Refund on Water.....	1,862.32
	\$ 281,257.64

EXPENDITURES

Item 0.....	\$ 30,763.81
Item 1.....	8,896.85
Item 2.....	1,794.69
	\$ 41,455.45

The following rigs arrived at the Municipal Dock from October 1, 1963 to September 30, 1964:

Steamships	83
Motor Vessels	112
Barges	95
U. S. Navy Ship	2
Nuclear Ship	1
Square Rigger Training Ships	3
Yawl	1
Schooner	1
TOTAL	298 Rigs

The following cargo arrived at the Municipal Dock from October 1, 1963 to September 30, 1964:

Railroad cars. . .	2,821	
Gasoline	332,985	Tons
Fuel Oils	200,558	"
Kerosene	19,838	"
Lube Oils	13,297	"
Lumber	93,876	(56,327,480 B.F.)
Cement	76,011	"
Asphalt	60,528	"
Steel	2,543	"
Chemicals	5,903	"
Pig Iron	6,572	:
General Cargo	13,462	"
TOTAL:	825,573	TONS

The following cargo was shipped from the Municipal Dock from October 1, 1963 to September 30, 1964:

General Cargo (Machinery, Paper & Scrap Iron). . . 32,173 Tons

ARRIVED OCTOBER 1, 1963 to SEPTEMBER 30, 1964

	<u>GASOLINE</u>	<u>FUEL OILS</u>	<u>KEROSENE</u>	<u>DIESEL</u>	<u>LUBE OILS</u>	<u>ASPHALT</u>	<u>CEMENT</u>	<u>CHEMICALS</u>
Oct.	181,494	304,302	12,663	7,989	3,132	7,000	15,717	2,561
Nov.	179,924	369,328	24,387	4,805	5,922	8,958	9,752	1,840
Dec.	199,005	371,219	24,989	9,007	1,836	9,258	14,362	1,348
Jan.	142,214	547,698	35,177	4,821	8,423	1,312	-	832
Feb.	231,735	405,424	56,387	15,494	3,690	-	-	1,928
Mar.	225,827	339,337	13,971	7,259	4,834	5,630	-	800
April	208,721	314,602	31,548	13,314	2,299	10,000	26,757	-
May	234,826	291,976	13,536	8,999	5,196	10,917	17,781	2,200
June	170,014	172,023	16,980	4,595	7,480	5,973	13,242	-
July	259,389	258,531	2,963	15,593	1,948	15,666	10,168	1,600
Aug.	182,882	132,566	30,064	1,707	3,329	11,266	11,775	-
Sept.	249,884	277,805	18,120	11,070		12,499	16,587	1,600
TOTAL	<u>2,465,315</u>	<u>3,784,811</u>	<u>280,785</u>	<u>104,653</u>	<u>48,089</u>	<u>98,479</u>	<u>136,141</u>	<u>14,709</u>

ARRIVED OCTOBER 1, 1963 to SEPTEMBER 30, 1964

	COAL	LUMBER		GEN. CARGO
Oct.	77,196	6,403	(3,841,942 B.F.)	1,660
Nov.	12,248	10,408	(6,244,806 "	---
Dec.	24,936	1,724	(1,034,406 "	---
Jan.	26,028	10,872	(6,523,409 "	529
Feb.	61,915	13,705	(8,223,145 "	---
Mar.	54,476	2,057	(1,234,535 "	530
Apr.	25,558	11,842	(7,105,409 "	1,510
May	28,564	3,906	(2,343,648 "	7,200
June	66,585	4,876	(2,925,668 "	864
July	---	18,638	(11,183,108 "	3,469
Aug.	28,916	2,895	(1,737,006 "	10,137
Sept.	29,055	6,550	(3,930,398 "	9,741
TOTAL	435,477	93,876	56,327,480 B.F.	35,613

TOTAL 7,497,948 Tons Received

FOLLOWING RIGS ARRIVED AT THE HARBOR FROM OCTOBER 1, 1963 to SEPTEMBER 30, 1964

MONTH	STEAMSHIPS	MOTOR VESSELS	BARGES	TUGS	DREDGE	SCOWS	U.S.N. DESTROYER	U.S.N. SUB	NUCLEAR SHIP	SQUARE RIGGER TRAINING SHIPS	SCHOONERS
Oct.	36	50	11	72			1	1			
Nov.	31	40	14	61							
Dec.	32	36	20	60							
Jan.	40	54	21	64	1	2					
Feb.	45	25	22	56							
Mar.	35	51	32	83							
Apr.	36	42	17	47							
May	37	44	17	51							
June	29	55	12	65							
July	31	69	13	57					1	4	2
Aug.	32	71	11	66							
Sept.	31	61	16	61							1
TOTAL	415	598	206	743	1	2	1	1	1	4	3

OCTOBER 1, 1963 to SEPTEMBER 30, 1964

Received	7,497,948	Tons
Shipped	1,083,574	Tons
Total:	<u>8,581,522</u>	Tons

SHIPPED OCTOBER 1, 1963 to SEPTEMBER 30, 1964

	<u>GASOLINE</u>	<u>FUEL OILS</u>	<u>KEROSENE</u>	<u>DIESEL</u>	<u>ASPHALT</u>	<u>SCRAP</u>	<u>GEN. CARGO</u>
Oct.	25,432	36,578	5,723	2,017	9,500	16,074	-
Nov.	21,954	26,614	5,054	1,800	17,000	10,578	-
Dec.	24,299	39,445	6,758	920	-	-	-
Jan.	44,336	60,954	7,039	1,568	2,500	10,252	-
Feb.	13,945	41,551	7,112	-	-	9,875	396
Mar.	41,653	46,753	6,696	510	9,000	10,659	1,407
Apr.	33,067	32,553	4,520	1,687	-	21,623	1,997
May	43,558	18,386	5,151	1,655	14,666	17,507	1,933
June	30,476	20,937	1,524	2,640	-	-	933
July	39,159	9,198	647	985	14,833	21,000	830
Aug.	42,392	17,411	5,577	1,402	8,556	-	-
Sept.	42,075	20,500	12,374	831	7,000	18,815	162
TOTAL	<u>402,346</u>	<u>370,880</u>	<u>67,167</u>	<u>16,085</u>	<u>30,389</u>	<u>136,383</u>	<u>7,658</u>

TOTAL 1,083,574 Tons Shipped

HARBOR DIVISION

HARBOR MASTER SECTION

Following is the Annual Report covering activities of the Harbor Master Section for the year ending September 30, 1964:

Item 0	3862.41
Item 1	122.71
Item 2	32.44
	<u>4017.56</u>

Revenue	
Refund on Water	\$8.44

The following rigs arrived in the Providence Harbor during the period of October 1, 1963 to September 30, 1964:

Steamships	415
Motor Vessels	598
Barges	206
Tugs	743
Dredge	1
Scows	2
U.S.N. Destroyer	1
U.S.N. Sub	1
Nuclear Ship	1
Square Rigger Training Ships	4
Schooners	3

The following cargo arrived in the Providence Harbor and the following cargo was shipped during the period of October 1, 1963 to September 30, 1964:

RECEIVED	
Gasoline	2,465,315 Tons
Fuel Oils	3,784,811 "
Kerosene	280,785 "
Diesel	104,653 "
Lube Oils	48,089 "
Asphalt	98,479 "
Cement	136,141 "
Chemicals	14,709 "
Coal	435,477 "
Lumber	93,876 "
Gen. Cargo	35,613 "
TOTAL:	7,497,948 Tons

SHIPPED	
Gasoline	402,346 Tons
Fuel Oils	370,880 "
Kerosene	67,167 "
Diesel	16,085 "
Asphalt	83,055 "
Scrap	136,383 "
Gen. Cargo	7,658 "
TOTAL:	1,083,574 Tons

	7,497,948	Tons Received
	1,083,574	Tons Shipped
TOTAL:.....	8,581,522	Tons Rec'd & Tons Shipped

Very truly yours,

James J. Fisher
Harbor Master

PUBLIC SERVICE DIVISION

Mr. Robert B. Strong
 Director of Public Works
 City Hall
 Providence, Rhode Island

Dear Sir:

I respectfully submit the following report for the Public Service Division for the fiscal year 1963-1964.

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 ownership.)	18184
	(b)	Total number jointly owned poles with N.E.T. & T. Company	13552
		" " " " " " U.E.R. Company	0
		" " " " " " Wes. Un. Tel. Co.	0
		" " " " " " Pos. Tel. Co.	0
		" " " " " " N.E.T. & U.E.R. (3party)	0
		" " " " " " U.E.R. & Wes. Un. Tel. Co.	0
		" " " " " " N.E.T. & Wes. Un. Tel. Co.	0
2.		Total number iron poles in city	247
		Number of underground street light standards	2132
		" " Ornamental arc	0
		" " Ornamental incandescents (Mercury Vapor)	2132
		" " Goose necks	0
		" " Ornamental Inc. with U.E.R.	0
		" " Iron poles with U.E.R.	0
		" " Iron poles with U.E.R. & N. E. T. & T. Company	0
		" " Iron poles with N.E.T. & N. Company	9
3.		Total number miles conduit (trench feet) in city	83.68
4.		" " miles conduit (duct feet) in city	691.23
5.		" " Underground cable in city	900.74
6.		" " miles equivalent single underground conductor	1257.82
6.	(a)	" " aerial cable	351.65
6.	(b)	" " equivalent single conductor aerial cable	927.11
7.		" " aerial open wire	3817.53
8.		" " service pipes or laterals	68.56
9.		" " commercial transformers in city	5958
10.		" " customers supplied directly by U.G. connection	24493
11.		" " customers supplied directly by O.H. connection	48985
12.		" " meters installed in city	73478
13.		Approximate total number of 1ø 2 wire 115 V. meters in city	29453
14.		" " " " 1ø 3 wire 115/230 V. meters in city	39024
15.		" " " " 1ø 2 wire 250 V. meters in city	0
16.		" " " " 1ø 3 wire 250/500 V. meters in city	0
17.		" " " " 3ø 3 wire 115 V. meters in city	12
18.		" " " " 3ø 3 wire 250 V. meters in city	245
19.		Total number of 3ø 4 wire 120/208 V. meters in city	1575
20.		" " " " 1ø 3 wire 120/208 V. meters in city	1844
21.		" " " " D.C. 2 wire and 3 wire 250 and 250/500 V. meters in city.	55
22.		Approximate total number of 3ø 3 wire 575 V. meters in city	1270

PROVIDENCE GAS COMPANY

Total Gas Services in Providence 37,624

Miles of Main:

L.P.	395 Miles	302 Feet	
H.P.	12 Miles	2,214 Feet	
Natural Gas	1 Mile	1,600 Feet	
Total	<u>408 Miles</u>	<u>4,316 Feet</u>	or 408.8
Gas Holders			4
Number of Meters (Active)			53,234
Decrease in Gas Services	9/30/63 - 9/30/64		122
Increase in Miles of Main	" - "		3.7
Decrease in Number of Meters"	- "		424

NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY

Total number wood poles (including jointly used, but not including those jointly used with no ownership)	16,783
Total number of jointly used poles with N.E. Company	13,552
Total number of jointly used iron poles with N.E. Co.	9
Total number of miles main conduit (trench miles)	63.53
Total number of miles U.G. cable	301.02
Total number of miles aerial cable	271.61
Total wood terminal boxes on poles	198
Approximate number of telephones supplied directly by underground or block distribution	47,920
Approximate number of telephones supplied directly by overhead lines on highways	45,375

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

Additional miles of cable - U.G. and aerial	12.54
Increase in the number of telephones in use	378

ESTIMATE

This report covers plant statistics as of September 30, 1964

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

TRAFFIC ENGINEERING DEPARTMENT

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	1,252
Total number of traffic signal poles	640
Total number of traffic signal controllers (local)	175
Total number of traffic signal controllers (master)	6
Total number of feet of underground ducts and laterals	73,991
Total number of miles of underground cable	29.5
Total number of miles of aerial cable	5.5
Total number of miles of equivalent single conductor (underground cable)	156.7
Total number of miles of equivalent single conductor (aerial cable)	27.5

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 the 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

DEPARTMENT OF PUBLIC SAFETY

Inventory - Signal construction - Fire Alarm Division - Police Signal System

September 30, 1964

	Total	Aerial	U.G.	Door Types Quick Action	Key	Keyless
Fire Alarm Boxes	971	601	370	949	9	13
City Owned	675	414	361	949	0	0
Privately Owned	296	187	109	274	9	13
Police Call Boxes	167	103	64			
Total Number of All Box and Cable Pedestals					334	
" " " " Fire Alarm Box Pedestals					237	
" " " " Police Box Pedestals					67	
" " " " Cable Pedestals Only					36	
" " " Miles of Underground Cables					85.15	
" " " " Parkway Cables					1.47	
" " " " Aerial Cables					3.52	
" " " " Equivalent Single Conductor - Underground					1258.40	
Aerial					129.30	
Parkway					6.42	
" Footage of all Underground Ducts and Laterals Owned by the City					3445.6	
" Number of Poles Owned by the City					36.	
Increase in the number of Fire Alarm Boxes owned by the City					10.	
" " " " " " " " Privately Owned					2.	

These increases are for the year 1963/1964.

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 of enabling the Traffic Engineering Division 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 spacings impractical as well as unsafe at night. Possibly, in the future, a controlled tree planting system by our different municipal departments 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. Many of our cities have resorted to this type of tree planting with excellent results. 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.

Street light breakage has decreased this year by 24, which probably indicates that a weekly copy of the percentage breakage that is mailed to Commissioner Lennon, Commander Wilding and Colonel Franklin has helped considerably. The redevelopment areas still show the greatest amount of breakage.

The Narragansett Electric Company, as per mutual agreement is still in the process of replacing all existing 15000 lumen mercurys to 21000 lumen which is improving the present lighting on our main highways. The conversion of all the 15000 Lumen under ground lights has already been completed.

The relighting of Elmwood Avenue with the new 21000 Lumen Mercury Luminaires shall be completed very soon.

The Lippitt Hill area is still in the process of redevelopment and we shall adequately relight this area when it is needed.

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 192 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.

An 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 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.

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 flood-lights, or private lighting on the sidewalk side of the utility pole which is called area lighting.

The North-South Freeway from Allens Avenue to Chalkstone Avenue which is called Route #95 is progressing on schedule and we are installing lights as it progresses.

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.

As of April 28, 1964, the City of Providence turned over to the State of Rhode Island the following Freeways: Olneyville Expressway (Roberts Freeway), Huntington Expressway, North-South Freeway and the George M. Cohan Boulevard. By this transfer of Street Lighting, the City of Providence saves \$22,058 Dollars per year.

Field work with the utility companies on pole locations, such as driveways, removals, settings, and underground conduit work, along with our own street light petitions with their necessary field work, as well as sign inspection in regard to overhead line clearance constitutes the bulk of this Public Service Work.

Therefore, it would seem advisable to again recommend to the department that an assistant be added to the Street Lighting Department to maintain and keep up to date the files and outage records so that our department can work in closer proximity and more effectively with both utility companies.

Respectfully submitted,

Peter J. Hicks, Jr.
Public Service Engineer

FAMILY & BUSINESS RELOCATION SERVICE

Mr. Robert B. Strong
Director of Public Works
City Hall
Providence, Rhode Island

Dear Mr. Strong:

This annual report reflects all the activities of the Family & Business Relocation Service conducted from October 1, 1963 through September 30, 1964.

It is the aim and objective of the Relocation Service to assist families in finding decent, safe and sanitary housing within their economic reach and in a suitable location convenient to their employment. While carrying out these primary objectives, it is equally important to provide various rehabilitation services in the realm of social and economic entities.

During the year, three offices have been in operation relative to our three phase program, namely, the Weybosset Hill site office for our urban renewal program, the Federal Aid Highway office for highway projects and our main office for all non-highway and non-ruban renewal activities.

Our present staff of 20 individuals with special techniques are assigned to the 3 offices enumerated above.

It is interesting to note that the Relocation Service, in submitting this annual report, has completed 15 years of activity in the field of relocation. During this period of time, many new dimensions have been added to the program; some of the important elements will be mentioned in this report.

During the past year, the Service was engaged in 15 projects. Of this number, 4 were in the field of Urban Renewal, 10 under the Federal Aid Highway Act and the remaining project was completed through the cooperation of the Providence Housing Authority.

A total of 370 residents were relocated during the year. While our actual case load involved 776 residents, the 370 relocatees represents the exact number which were successfully relocated during the year. At the end of this period, there were 406 residents remaining in the workload. During the past fiscal year, 8 projects were completed and therefore closed out.

The commercial phase of relocation continues to remain an important segment of our total program. During the past year, 12 projects were registered within our total workload with the breakdown as follows: 1 Urban Renewal project, 10 under the Federal Aid Highway Act and the remaining project under the auspices of the Providence Housing Authority. A total of 62 commercial establishments were registered with the Service during the 12 month period. Of this number, 34 were successfully relocated, 28 remained at the end of the fiscal year. A total of 4 projects were completed and closed out at the end of the year.

In reviewing the workload for the past 12 months, two projects, namely the Lippitt Hill Demonstration Rehabilitation Project and the Social Planning Function of the East Side Urban Renewal Project required specialized programming in carrying out a detailed process within the relocation field.

A new dimension was added to our activities in the field of study programming through the awarding of a \$35,000 grant from the Ford Foundation to make a detailed study of the impact of relocation on elderly persons. The grant will cover a period of two years, from October 1, 1963 through September 30, 1965. The City of Providence was one of 4 cities selected in the nation to undertake this new approach to the problems of the elderly in relocation.

In keeping with past policy, all residents were given detailed attention with a definite emphasis placed on the human needs of the individual.

In a general review of our total activities, various accomplishments can be denoted with the increase of working relationship agreements established with many private and public health, welfare, employment, education and recreational organizations.

In anticipation of the Community Renewal concept, many new developments shall take place changing the course of the relocation activity in the future.

RESIDENTIAL DISPLACEMENT

This phase of our program diminished slightly during the past year and is largely reflected in the smaller number of projects condemned by the Rhode Island State Department of Public Works. While a total of 370 residents were relocated during the past year, the total case load involved 776 units. The case load carried into the present fiscal year, totals 406 units. The Relocation Service completed and closed out 8 projects during the year.

Some of the problems faced during the year were focused on the elderly segment of our population. A specialized case worker was assigned to the Weybosset Hill office to give additional services over and above our two full-time Social Case Workers. Realizing that elderly residents have added burdens in the relocation process, greater attention has been focused in coping with these multi-problem individuals.

COMMERCIAL RELOCATION

During the year, 12 projects were registered with the Service in the clearance programs for commercial establishments. The year began with a total of 62 commercial establishments registered on the various sites. Of this figure, 34 were successfully relocated and the remaining 28 were carried into the present fiscal year. A total of 4 projects were completed and closed out during this period of time.

The Service continues to devote great time and effort in meeting its responsibility to the commercial establishments. While the problems of available rental space and leasing fees were outstanding, good progress has been denoted in meeting this challenge.

We have two commercial specialists who are playing an important part in assisting the commercial concerns with their various problems.

A separate listing file has been made available to the management or owners of the various firms within our jurisdiction.

We have been working closely with the Small Business Administration in making available information and data to the businessman.

The problem still remains in finding adequate business properties near transportation facilities located around the central core business area. Every reasonable effort is being made to lessen the impact of relocation on the business concern.

LISTING PROCESSED DURING THE YEAR

The demand for listings in the rental and sales categories remained somewhat static during the past year.

The greatest demand made upon the Relocation Service for listings resulted from the condemnation of the Weybosset Hill Urban Renewal Project. While the program has been geared towards tenements and flats in the rental phase, the nature of the Weybosset Hill project necessitates a change in our approach in order to make available rental rooms for over 400 residents residing in the Weybosset Hill project. Therefore, to some extent, the advertising approach had to be pointed towards an appeal for rooms and small apartments as opposed to tenement housing.

The Relocation Service registered a total of 384 properties, during the fiscal year; for the most part, this housing was located in the City of Providence.

The Service continued to use the American Public Health Association Standard Scoring System in processing listings. During the year, additional courses of instruction were completed by our 4 Housing Inspectors in the full implementation of the deficiency scoring point system. A complete set of scoring material was provided each member of the inspection staff. This relatively small expenditure should result in a more efficient operation under the A.P.H.A. system of scoring housing.

INTER-RACIAL ACTIVITY

The number of non-white displacees reported in our work load during the past year was smaller than in previous years. However, continued focus is being carried out in coping with the problems of finding decent, safe and sanitary housing for our minority families.

During the year, Mrs. Henri W. Lopes assumed the position as Inter-group Specialist.

One of the major efforts in this field has been the continuation of our public speaking program in reaching church groups, neighborhood organizations and professional clubs in order to make known the aims and objectives of the relocation program.

In the early part of the year, the Administrator appeared before the Providence Human Relations Commission to make a full report on the activities of the Relocation Service relative to non-white displacees.

This hearing was conducted by the Commission in order to improve methods and procedures in procuring additional and improved housing for minority families.

As in the past, the Services is making a fervent effort to improve racial relationships within the community as part of our overall responsibility.

SPECIALIZED PROGRAM FOR THE ELDERLY

The Service continued to make steady progress in coping with the unique problems faced by the Elderly in relocation.

During the twelve month period, specialized services were rendered to the Elderly occupants within four project areas. It is interesting to note that two of the projects involved the Federal Highway Program, with Weybosset Hill representing the Urban Renewal phase and Bradford House for the Elderly under the auspices of the city.

A total of 68 Elderly residents were successfully relocated during the year. In addition, private and public agencies assisted the Service in coping with many of the complex problems faced in the relocation of Elderly persons.

FORD FOUNDATION ELDERLY STUDY GRANT

During the early part of the fiscal year, the Relocation Service was awarded a Two Year Demonstration Grant by the Ford Foundation in the amount of \$35,000 to make a specialized study of Elderly displacees.

With the grant underway, a specialized staff has been devoting full time in carrying out the agreements of the contract.

In addition, the Relocation Service contracted with the Rhode Island Council of Community Services, Inc., to carry out the project design and the initial interviewing process under a \$8,024 contract.

During the year, the Service completed the original study phase and at the present time is involved in the service aspect of the study.

It is our intention to identify the problems faced by the Elderly in the relocation process and to make available new methodology in coping with the complexities involving elderly displacees.

National attention, relative to the study, has been drawn from our unique experience here in the City of Providence.

RANDALL SQUARE DIAGNOSTIC STUDY AND SOCIAL ACTION PROGRAM

A major portion of our time has been devoted to the specialized program in the Randall Square phase of the East Side Urban Renewal Project. A staff of 2 Social Case Workers and 1 Clerical Assistant are currently devoting full time to this new pioneering effort. The Administrator and Case Work Supervisor are overseeing the project.

It is interesting to point out that the Social Case Workers have registered 70 families and 55 individuals in the original interviewing process which commenced in March of 1963.

At the end of the present fiscal year, 54 families and 35 individuals remained within the project area. As one can readily see, our time and effort has been well spent in the stabilization of residents moving from the area.

During the year, two major meetings were held in cooperation with 14 private and public health, welfare and employment agencies. Most of our activity has been focused on the relocation aspect on a long-range basis. Close supervision and detailed case work has been carried out by the staff through a systematic visiting and referral procedure. To date, some 222 referrals for services have been recorded in working with social, health and employment agencies. The overall response from our site occupants has reached a high plane.

All data and information pertaining to this specialized project has been carefully documented for future use and reporting. The experience and success denoted to date should be measured against past project experience, which ultimately will afford the Relocation Service an opportunity to make recommendations for procedural changes in future Federal projects.

PUBLIC AFFAIRS ACTIVITY

This phase of activity continues to demand much time and effort in the preparation of releases, scripts and reporting on our progressive program.

Several cities, such as, Boston, Springfield and Franklin, Massachusetts, New Haven and Rockville, Connecticut, in addition to the District of Columbia, were some of the cities that requested information on specific phases of our relocation program.

In addition to these inquiries, several staff hours were devoted to the participation in various studies and critiques involving the Menninger Foundation of Topeka, Kansas and the University of Pennsylvania relative to population studies and pertinent data in procedures and policy.

Much time has been devoted to a full-fledged speaking program with neighborhood associations and councils within the City of Providence.

During the twelve month period many telecasts were conducted in the areas of panel discussions, news items and film strips. Great attention has been focused on the ability of the Relocation Service to disseminate information to the public in carrying out our various responsibilities to the community.

JOINT PROGRAM FEDERAL AID HIGHWAY ACT

The Relocation Service continues to participate in the State Federal Highway System. During the past year, 10 active projects were carried out in the overall work load.

In April of 1964, after many months of negotiations, a formal contract was consummated with the State of Rhode Island Department of Public Works under the Federal Aid Highway Act of the Congress of the United States.

Under the terms of this contract, the Relocation Service becomes the Local Public Agency responsible for all highway displacement in the realm of residential and commercial activities.

For the first time, this new development will result in the Relocation Service being reimbursed for all relocation technical assistance rendered to the State of Rhode Island on Federal Highway Projects.

As part of our contract a formal procedure has been initiated whereby directives for the Federal Bureau of Public Roads are to be followed in carrying out the terms of the contract.

With the advent of the Federal Aid Highway Act, a new relocation payment program was initiated whereby all eligible residents may receive up to \$200 for a given move. Under the Act, the commercial establishments may receive up to \$3,000 for a commercial move from the project area. It is the responsibility of the Relocation Service to investigate and process all claims submitted under the Federal Aid Highway Act agreement.

Under this formalized contract, the new relationship will insure adequate and protective services for all displacees in future projects.

Early in the year, a public hearing was conducted by the United States House of Representatives through the Select Sub-Committee on Real Property Acquisition. At the Committee's request, the Administrator testified before the Committee at a hearing held in Providence early in the year. In addition to a formal written statement, an oral statement accompanied the Administrator's appearance before the Committee. In view of the lengthy experience of the Relocation Service, the Committee appreciated the data and detailed information which was submitted. The purpose of the hearing was focused on the consideration of making changes in the federal program which would benefit various cities throughout the nation.

The Administrator was invited to participate at a later date before the Committee on Public Works, House of Representatives in Washington, D. C.

CITY RELOCATION ACTIVITY

In keeping with past history, the Relocation Service continued to assist displacees in City Projects.

During the year, our services were engaged to relocate the residents and business firms located on the Bradford House for the Elderly Project. A specialized agreement was made providing social case work and inspection services to the displacees.

In order to assure adequate, reasonable and necessary moving expense payments, the Providence City Council enacted an ordinance whereby residents and business firms could be made eligible for relocation payments in clearance projects undertaken by a municipality. This progressive legislation enables the Relocation Service to reimburse the various site occupants and businessmen in all phases of the total relocation program.

SUMMARY

Historically speaking, the data, information and statistics contained in this report reflects to some degree the accomplishments and experiences gained over the past 15 years.

It is interesting to note that several accomplishments have been reached in going about the serious task of assisting families in finding homes and motivating them towards a better way of life.

While the report reflects the actual day-to-day operations, it is difficult to portray the various added incentives and new methodology incorporated in the program for the betterment of our families and individuals.

With this depth of experience behind us, it appears imperative to make some recommendations which will afford us the opportunity to better serve people living within future project areas.

In all programs serving people new problems arise which demands new solutions. We feel confident that under the central relocation system, diversification and flexibility are the keynotes for a well-rounded program.

As one would expect, the problems inherent in the clearance of public project areas requires dedication and a deep understanding if an agency is to perform its function properly.

The Relocation Service has been closely allied with many private and public agencies in the realm of health, welfare, education and employment. When we realize that no social problem is a simple one, we begin to perceive the magnitude of the relocation picture. With these basic thoughts in mind, a fervent effort has been made to take into consideration all of the ramifications involved in the totality of the program.

As a resultant factor, our Social Case Workers have devoted great time and energy in assisting our site occupants towards a better mode of living in both the physical and social spheres.

Through our specialized program relative to non-white families, multi-problem families and so-called socially depressed individuals, a closer relationship has come into focus through various techniques employed in our social case work practices. It is a truism that most of our difficult social and health problems have existed within our project areas for a number of years, therefore, it is only reasonable to expect a gradual change in the living patterns of our residents. In essence, while great strides are being made, the time factor should be based on a long-term range, realizing that deep roots are not easy to change.

During the present time we are witnessing a revolution depicted through the Economic Opportunity Act of 1964 better known as the, "Poverty Act" recently passed by the Congress of the United States.

Due to our past experience, the Relocation Service feels confident that we can and should make a major contribution in carrying out the philosophy of helping people to help themselves. It is within our grasp to directly assist the people in need and to fortify the so-called "Great Society", while upholding the dignity of man regardless of his creed or color.

FAMILY & BUSINESS RELOCATION SERVICE
 PROGRESS REPORT ON RESIDENTIAL PHASE
 FISCAL YEAR 1963 - 1964

<u>PROJECT</u>	<u>CONDEMNATION DATE</u>	<u>WORKLOAD 10/1/63</u>	<u>RELOCATED DURING FISCAL YEAR</u>	<u>REMAINING ON SITE 9/30/64</u>
<u>URBAN RENEWAL</u>				
Central-Classical	1/2/62	4	4	Completed
*East Side (Randall Square Phase)	*3/4/63	108	17	91
Lippitt Hill (Demonstration Rehabilitation)	9/24/63	6	6	Completed
Weybosset Hill	5/15/64	438	162	276
<u>HIGHWAY CONSTRUCTION</u>				
Charles to Branch	12/12/62	2	2	Completed
Orms Street	12/27/62	2	2	Completed
Seymour Street	1/23/63	2	2	Completed
Red Bridge	2/4/63	39	28	11
Branch to Pawtucket City Line	3/25/63	32	32	Completed
Huntington Extension	6/30/63	54	48	6
Douglas to Charles	12/30/63	13	11	2
South Water to Ives Street	1/28/64	15	9	6
Concord Street	4/7/64	1	1	Completed
Ives to Seekonk River	6/26/64	21	7	14
<u>CITY PROJECTS</u>				
Bradford House (Housing for Elderly) Negotiation		39	39	Completed
TOTAL		776	370	406

* Special Pre-Condernation Social Planning Program

FAMILY & BUSINESS RELOCATION SERVICE

REPORT ON RESIDENTIAL CONTACTS

FISCAL YEAR 1963 - 1964

<u>PROJECTS</u>	<u>HOME CONTACT</u>	<u>OFFICE CONTACT</u>	<u>TOTAL</u>
<u>URBAN RENEWAL</u>			
Central-Classical	46	21	67
*East Side (Randall Square Phase)	749	13	762
Lippitt Hill Demonstration Rehabilitation)	71	6	77
Weybosset Hill	1,524	224	1,748
<u>HIGHWAY CONSTRUCTION</u>			
Charles to Branch	6	0	6
Orms Street	1	1	2
Seymour Street	11	6	17
Red Bridge	65	24	89
Branch to Pawtucket City Line	9	2	11
Huntington Extension	330	151	481
Douglas to Charles Street	38	14	52
South Water to Ives Street	115	50	165
Concord Street	5	0	5
Ives to Seekonk River	56	18	78
<u>CITY PROJECTS</u>			
Bradford House (Housing for Elderly)	234	56	290
TOTAL	3,260	586	3,846

* Special Pre-Condernnation Social Planning Program

FAMILY & BUSINESS RELOCATION SERVICE
 PROGRESS REPORT ON COMMERCIAL PHASE
 FISCAL YEAR 1963 - 1964

<u>PROJECT</u>	<u>CONDEMNATION DATE</u>	<u>WORKLOAD 10/1/63</u>	<u>RELOCATED DURING FISCAL YEAR</u>	<u>REMAINING ON SITE 9/30/64</u>
<u>URBAN RENEWAL</u>				
*Central-Classical	1/2/62	5	4	1
<u>HIGHWAY CONSTRUCTION</u>				
Charles to Branch	12/12/62	4	4	Completed
Red Bridge	2/4/63	7	3	4
Route #6 (Phase II)	2/28/63	9	5	4
Branch to Pawtucket City Line	3/25/63	1	1	Completed
Huntington Extension	6/30/63	10	10	Completed
Douglas to Charles	12/30/63	1	1	Completed
South Water to Ives Street	1/28/64	12	0	12
Route #6 (Connector Ramp)	6/2/64	1	0	1
Ives to Seekonk River	6/26/64	3	0	3
Gano to Seekonk River	9/15/64	2	0	2
<u>CITY PROJECTS</u>				
Bradford House (Housing for Elderly)	Negotiation	7	6	1
TOTAL		62	34	28

* Churches, non-profit organizations, rooming and apartment houses only.

FAMILY & BUSINESS RELOCATION SERVICE

REPORT ON COMMERCIAL CONTACTS

FISCAL YEAR 1963 - 1964

<u>PROJECTS</u>	<u>CONTACTS</u>
<u>URBAN RENEWAL</u>	
*Central-Classical	97
<u>HIGHWAY CONSTRUCTION</u>	
Charles to Branch	40
Red Bridge	55
Route #6 (Phase II)	80
Branch to Pawtucket City Line	5
Huntington Extension	68
Douglas to Charles	12
South Water to Ives Street	135
Route #6 (Connector Ramp)	4
Ives to Seekonk River	20
Gano to Seekonk River	2
<u>CITY PROJECTS</u>	
Bradford House (Housing for Elderly)	<u>70</u>
TOTAL	588

* Churches, non-profit organizations, rooming and apartment houses only.

FAMILY & BUSINESS RELOCATION SERVICE

TOTAL NUMBER OF REFERRALS MADE
TO RESIDENTIAL AND COMMERCIAL SITE OCCUPANTS

FISCAL YEAR 1963 - 1964

<u>PROJECTS</u>	<u>RESIDENTIAL</u>	<u>COMMERCIAL</u>
<u>URBAN RENEWAL</u>		
*Central-Classical	15	0
East Side (Randall Square Phase)	*191	-
Lippitt Hill (Demonstration Rehabilitation)	29	-
Weybosset Hill	125	-
<u>HIGHWAY CONSTRUCTION</u>		
Charles to Branch	0	0
Orms Street	1	-
Seymour Street	22	-
Red Bridge	3	0
Route #6 (Phase II)	-	0
Branch to Pawtucket City Line	5	0
Huntington Extension	45	1
Douglas to Charles Street	29	2
South Water to Ives Street	34	24
Concord Street	0	-
Route #6 (Connector Ramp)	-	0
Ives to Seekonk River	34	2
Gano to Seekonk River	13	0
<u>CITY PROJECTS</u>		
Bradford House (Housing for Elderly)	55	25
TOTAL	601	54

*Churches, non-profit organizations, rooming and apartment houses only.

**Special Pre-Condernnation Social Planning Program.

***Public And Private Agency Referrals.

FAMILY & BUSINESS RELOCATION SERVICE
 RECORD OF LISTINGS PROCESSED FOR ALL PROJECTS
 FISCAL YEAR 1963 - 1964

<u>QUARTERLY</u>	<u>RENTAL PROPERTIES</u>			<u>SALE PROPERTIES</u>			<u>TOTAL</u>
	<u>APPROVED</u>	<u>REJECTED</u>	<u>OUT OF CITY</u>	<u>APPROVED</u>	<u>REJECTED</u>	<u>OUT OF CITY</u>	
Oct. 1 - Dec. 31, 1963	43	17	1	11	6	5	83
Jan. 1 - Mar. 31, 1964	33	4	5	12	3	1	58
Apr. 1 - June 30, 1964	94	22	6	8	0	4	134
July 1 - Sept. 30, 1964	70	21	5	11	0	2	109
TOTAL	240	64	17	42	9	12	384

TOTAL RENTAL PROPERTIES... 321
 TOTAL SALE PROPERTIES..... 63
 GRAND TOTAL..... 384

FAMILY & BUSINESS RELOCATION SERVICE

ANNUAL EXPENDITURES

FISCAL YEAR 1963 - 1964

PERSONAL SERVICES

CITY SHARE - GENERAL FUND	\$44,581.39
FEDERAL SHARE	<u>38,746.00</u>
TOTAL PERSONAL SERVICES	\$83,327.39

SERVICES OTHER THAN PERSONAL	8,577.19
MATERIALS AND SUPPLIES	493.62
EQUIPMENT OUTLAY	<u>1,059.52</u>

TOTAL EXPENDITURES	\$93,457.72
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Respectfully submitted,

David Joyce
Administrator

DEC 24 12 13 PM '64

DEPARTMENT OF BANK
PROVIDENCE, R. I.