

ANNUAL REPORT OF THE ENGINEERING AND PUBLIC WORKS DEPARTMENT

1965



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TO HIS WORSHIP THE MAYOR AND ALDERMEN
OF THE CITY OF FREDERICTON.

Gentlemen:

I submit herewith this report which is a statement of the work done in the various City Departments under the direct supervision of the City Engineer.

This report covers the period January 1, 1965 to December 31, 1965 and is written for the purpose of maintaining an accurate record on file of the activities and costs of the various departments.

During the year, along with regular maintenance, City crews and contractors constructed the following work:

Concrete Curb and Gutter	3.59 miles
Concrete and Asphaltic Sidewalk	2.34 miles
Grading and Gravelling City Streets ..	3.59 miles
Ditching (Flanagan Road)25 miles
New Street Construction	3.20 miles

New Pavement $\frac{3}{4}$ " Dense Mix
(Diamond Construction Co. (1961)Ltd.) .68 miles

Sealing City Streets (Diamond
Construction Co. (1961) Ltd.)

$\frac{1}{4}$ " Hot Mix	1.58 miles
$\frac{3}{8}$ " - $\frac{1}{4}$ " Chips	2.10 miles

10" - 36" Surface Sewer	4.07 miles
6" - 10" Domestic Sewer	2.97 miles
4" - 12" C. I. Water Main	3.14 miles

Contractors under contract with the Public Works Department of the City of Fredericton in 1965 constructed and completed construction on the following projects:-

Ashfield Construction
Company Limited

- To installing Domestic Sewer, Surface Sewer and Water on Hearne Street, McNair Drive, Limerick Road and Richards Court ("A" and "D" Corporation subdivision).

Ashfield Construction
Company Limited

- To installing Domestic Sewer, Surface Sewer and Water on Prospect Street (Parkside Development).

Ashfield Construction
Company Limited

- To installing Domestic Sewer, Surface Sewer and Water on a portion of Lisgar Street (E. C. Atkinson subdivision).

Ashfield Construction
Company Limited

- To installing Domestic Sewer, Surface Sewer and Water on Lorne Street and a portion of Massey Street (Hill Bros. subdivision).

Ashfield Construction
Company Limited

- To installing Domestic Sewer, Surface Sewer and Water on York and Dufferin Streets and a portion of Lisgar and a portion of Massey Streets. (City of Fredericton subdivision).

- Ashfield Construction Company Limited - To installing Domestic Sewer, Surface Sewer and Water on Eglinton and Oxford Streets (Greendale subdivision).
- Ashfield Construction Company Limited - To installing Domestic Sewer, Surface Sewer and Water on Lynhaven and Studholm Streets (C. Montgomery-Campbell subdivision).
- Ashfield Construction Company Limited - To installing Domestic Sewer, Surface Sewer and Water on College Hill Road (Extension to previous installations).
- Everett Farris - To installing Domestic Sewer, Surface Sewer and Water on Regent Street (Completion of 1964 contract).
- Percy Jones - To installing Domestic Sewer, Surface Sewer and Water on Irvine Street (Carleton Realty subdivision).
- Diamond Construction Company (1961) Ltd. - To construction of Forest Hill Access Road (Completion of 1964 contract).
- Diamond Construction Company (1961) Ltd. - To laying Asphalt Pavement on City Streets.
- S. S. Baird & Sons Ltd. - Supply and delivery of crushed gravel.
- W. J. Bearisto Co. Ltd. - To supplying heating equipment at City Yard for New Equipment Shed constructed in 1964.
- Maritime Insulation Co. - Insulation of New Equipment Shed at City Yard.
- W. R. and W. W. Thomas - To supplying and delivering winter sand to City Yard and Stock Pile on Wilsey Road.

The current expenditures for the twelve-month period January 1, 1965 to December 31, 1965 appear as follows:-

	<u>Appropriation</u>	<u>Expenditure</u>	<u>Debit</u>	<u>Credit</u>
Street Lights	\$ 62,874.90	63,526.25	651.35	
Public Works	26,829.00	37,605.76	10,776.76	
Roads and Streets	197,932.00	211,017.30	13,085.30	
Sanitation (Land Fill and Garbage)	62,315.00	64,244.19	1,929.19	
Wilmot Park	3,801.60	3,452.71		348.89
Odell Park	4,876.74	4,767.66		109.08
Carleton Park	3,267.00	3,226.38		40.62
Old Burial Ground	1,881.00	1,628.83		252.17
Street Cleaning	46,897.00	48,172.57	1,275.57	
Loyalist Burial Ground	99.00	99.93	.93	
Clearing Park Areas	990.00	859.58		130.42
TOTALS =	\$ 411,763.24	438,601.16	27,719.10	881.18

	<u>Revenue</u>	<u>Net Expenditure</u>	<u>Credit</u>
Water Pumping Station)		\$ 50,915.76	
Water Ordinary)	\$ 272,670.45	70,829.45	\$ 120,097.85
Sewerage Domestic)		21,232.57	
Salaries		<u>9,594.82</u>	
TOTALS =	<u>\$ 272,670.45</u>	<u>\$ 152,572.60</u>	<u>\$ 120,097.85</u>

The City of Fredericton occupies a total of some 23.5 square miles. This area excludes the water area occupied by the Saint John River within the boundaries of the City.

The 1961 census shows the City's population as 19,683.

Following in the body of this report is a detailed statement of the work done, comparative expenditures and unit costs under the various departments. The detailed report of any particular department may be found by referring to the index.

Respectfully submitted,

CITY ENGINEER.

TOTAL YEARLY EXPENDITURE

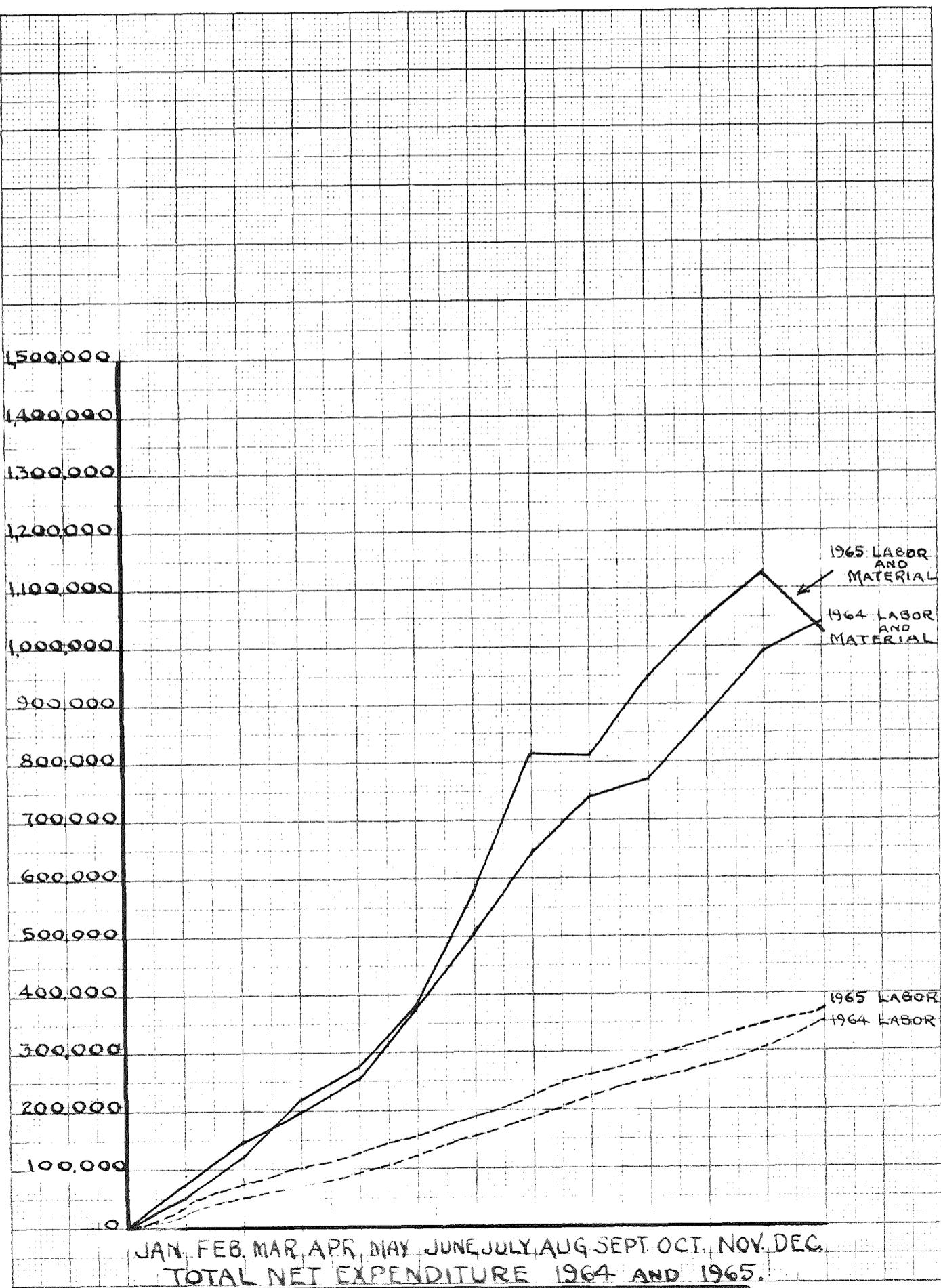
The total yearly net expenditure under the direct supervision of the City Engineer in 1965 amounted to \$1,028,028.29.

A graphic comparison of expenditures for labor, (including hired trucks and machinery) and labor and material for the year 1964 and the year 1965 is shown on the following graph.

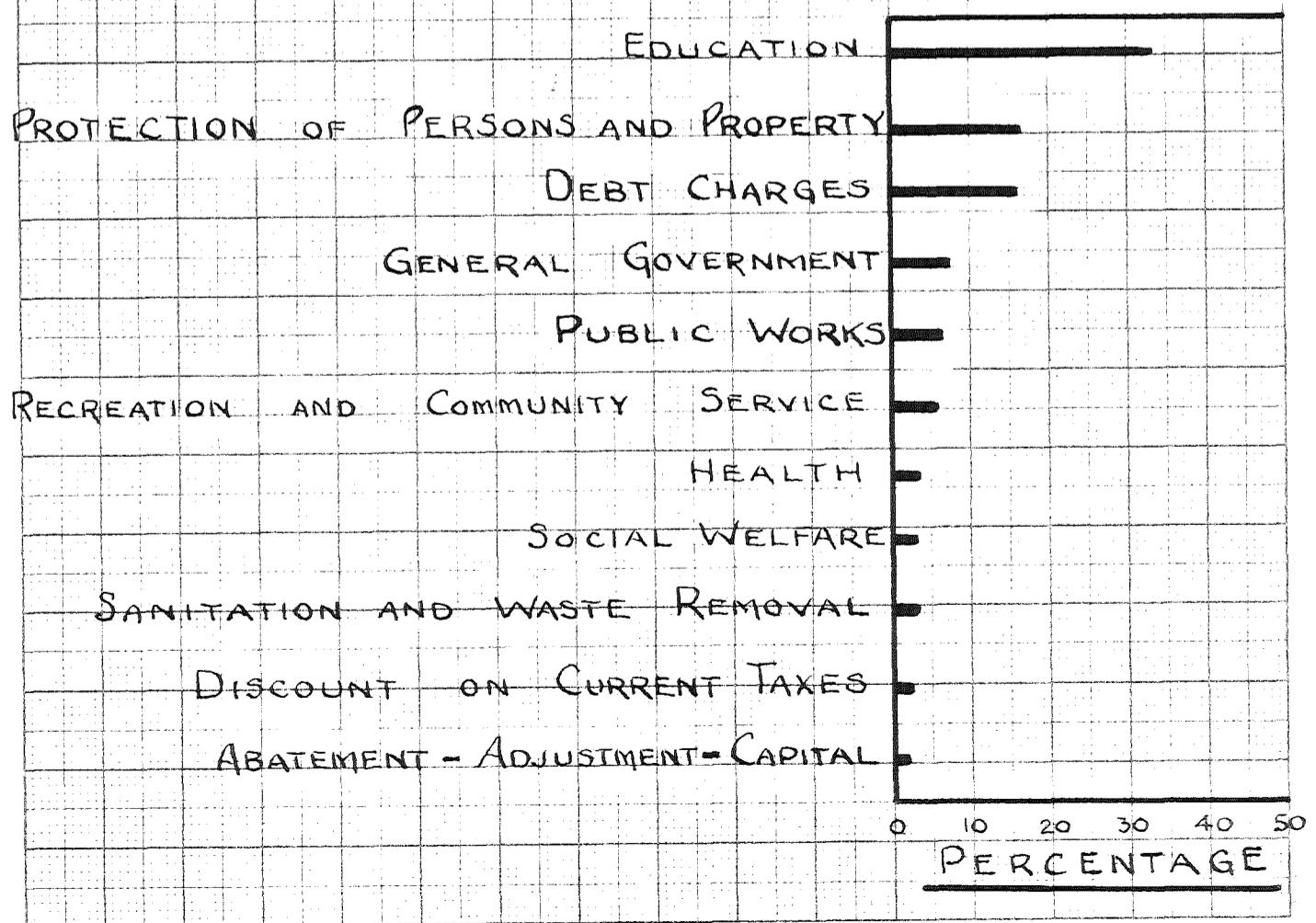
The location of new construction completed and commenced in 1965 is shown on maps inserted after Page 4 of this report.

Following the maps is a graph, showing the distribution of the City of Fredericton Tax Dollar.

HUGHES OWENS 404G



DISTRIBUTION OF THE 1965 CITY DOLLAR.



The Gross Expenditure of \$321,823.98 is divided into the following items. These items give an account of the amount and kind of work done by the Roads and Streets Department during the year.

ITEM #1

Snowplowing Sidewalks:- 50.87 miles

50.87 miles of sidewalk were kept plowed in 1965.

Total expenditure under this heading amounted to \$4,853.92 and was made up as follows:-

Labor	\$ 2,466.92
Hired Trucks & Machinery	41.00
City Machinery Charges	<u>2,346.00</u>
TOTAL	\$ 4,853.92

In 1965 the unit cost of plowing and sanding one mile of sidewalk was approximately \$276.00 and was calculated as follows:-

Labor	\$ 5,159.43
Hired Trucks & Machinery ...	89.40
City Machinery charges	5,711.30
Materials	<u>3,075.00</u>
TOTAL	\$ 14,035.13 - - - - (1)

The overall cost including Compensation, Pension Fund and Sick Leave was approximately \$294.00 per mile.

ITEM #2

Snow Control:- Blowing, shovelling and hauling snow, plowing or scraping roads, cleaning gutters, thawing catch basins of ice and snow and any other means of snow control. The total cost of snow control amounted to \$85,116.92 and was made up as follows:-

Labor	\$ 23,722.45
Hired trucks and machinery	26,594.50
Machinery charges (City Graders, Jeeps, Bulldozers, etc.)	25,822.00
Materials (Plywood, Kerosene, shear bolts, snow fencing, etc.)	757.06
Expendable materials (Grader blades, chains, shear pins, etc.)	4,506.64
Maintenance of snow equipment (repairs to Snow Blowers)	<u>3,714.27</u>
TOTAL EXPENDITURE	\$ 85,116.92

The following table shows comparative labor (including hired trucks and machinery) costs of Snow Control for the years 1963 to 1965 inclusive:-

	<u>1963</u>	<u>1964</u>	<u>1965</u>
Snowplowing Roads and Streets ...	\$ 11,269.45	14,055.03	9,919.44
Blowing, hauling and shovelling snow	62,073.65	37,430.87	36,437.35
Catch Basins	4,818.13	3,842.61	2,653.84
Snow Fences	702.51	752.74	674.19
Plowing Parking Areas	<u>235.27</u>	<u>248.68</u>	<u>632.13</u>
TOTALS	<u>\$ 79,099.01</u>	<u>56,329.93</u>	<u>50,316.95</u>

69.33 miles of Roads and Streets were plowed and maintained during the winter months.

The unit cost per mile of plowing, salting and sanding City Roads and Streets was approximately \$1,703.00 and was calculated as follows:-

Labor	\$ 34,686.09
Hired Trucks and Machinery	26,594.50
Machinery charges (City Graders, Jeeps, Bulldozers) ..	33,263.20
Material (Sand, salt)	15,307.98
Repairs to Snow Blowers	3,714.27
Expendable Material (Grader Blades, etc.)	4,506.64
TOTAL	<u>\$ 118,072.68</u>

- - - (2)

The overall cost including Compensation, Pension Fund, Holidays and Sick Leave was approximately \$1,862.00 per mile.

TOTAL COST OF SNOW CONTROL: -- Add (1) and (2)\$ 132,107.81

Snow Fall in Fredericton for the last five years was as follows:-

January 1, 1961 to December 31, 1961	93.89 inches
January 1, 1962 to December 31, 1962	90.80 inches
January 1, 1963 to December 31, 1963	106.10 inches
January 1, 1964 to December 31, 1964	120.40 inches
January 1, 1965 to December 31, 1965	85.50 inches

Snow Fences:-

Twelve thousand feet of lath and wire snow fencing was erected under Snow Control to prevent drifting snow from building up on outlying roads. 2,000 feet of snow fencing was purchased from New Brunswick Wire Fence Company Limited.

ITEM #3

Sanding Streets and Walks:-

Storing sand in Winter Storage piles and spreading same on slippery streets and walks.

Labor	\$ 13,462.55
Hired trucks and machinery	242.00
City Machinery charges ...	9,301.50
Materials	<u>19,130.92</u>
Total Expenditure .	<u>\$ 42,136.97</u>

12,304 cubic yards of sand was purchased during the winter of 1965. The sand was supplied by W. R. and W. W. Thomas at prices of \$1.20 and \$1.18 per cubic yard delivered to City Yard and Wilsey Road stock pile area.

In 1965, 270 tons of salt was used for ice control. The cost and distribution charges are included under the above heading.

ITEM #4

Streets:-

General work of maintenance of streets and sidewalks and any other items such as building culverts, curbs and gutters or pavement which are not mentioned under some particular heading.

Total expenditure under Streets Account (Labor, Machinery and Materials) amounted to \$89,982.48 and was made up as follows:-

Item	Labor, Hired Trucks & Machinery	City Machinery Charges	Materials	Total
Repairing Machinery	\$ 13,881.96	2,002.00	41,351.37	57,235.33
Maintaining Driveways	622.60	319.00		941.60
Dust Control	797.55	55.00	5,287.27	6,139.82
Repairing Culverts	693.15	263.00	370.17	1,326.32
Ditching	21.25	35.00		56.25
Erection of Guard Posts	352.72	104.00	117.57	574.29
Repairing Streets (Curbs and Walks)	3,736.43	1,964.50	3,254.91	8,955.84
Rip-Rapping	6.80			6.80
Cutting Grass	1,449.63	308.00		1,757.63
*Weather Account	12,988.60			12,988.60
TOTALS =	\$ 34,550.69	5,050.50	50,381.29	89,982.48

* Less Compensation cheques received in 1965 (\$303.87)

In 1965, 45,454 gallons of oil and 10 bags of Calcium Chloride were used for dust control.

ITEM #5

Surface Sewers:-

The Surface Sewers in the City were flushed where necessary and all Catch Basins were cleaned and repaired during the year and repairs were made to any leaks that occurred or extensions required for the sewer outfalls, amounting to \$10,594.61, made up as follows:-

Labor.....	\$ 5,062.24
Hired Trucks & Machinery ...	241.00
City Machinery Charges	2,557.00
Materials	<u>2,734.37</u>
TOTAL	<u>\$ 10,594.61</u>

There are in Fredericton, 45.01 miles of Surface Sewer, consisting of 6.30 miles on the north side of the Saint John River and 38.71 miles on the south side of the Saint John River.

ITEM #6

Yard:-

Caretaker at City Yard, repair work in City Yard, Heat, Power, etc.

Labor	\$ 4,262.00
Hired Trucks & Machinery ..	8.00
City Machinery Charges	206.00
Light, Power and Telephone.	715.28
Addition of heat and insulation to New Storage Shed	4,000.33
Materials (Tools, etc.) ...	<u>3,422.49</u>
TOTAL	<u>\$ 12,614.10</u>

In 1964 a pre-engineered Steel Building was erected at the City Yard to house city vehicles. This building was started in 1963 with the laying of the foundation and completed in 1964 by Brunswick Builders Limited. In 1965 the building was insulated and a heating system was installed by W. J. Beairsto Company Limited at a total cost of \$4,000.33.

The cost of this building to the City was as follows:-

Brunswick Builders Ltd. (1963-1964) ...	\$ 11,266.00
Maritime Insulation, installing insulation (1965) ...	1,956.50
J. L. Simms & Son (Insulation for vents--1965)	5.51
H. S. Gill and Sons (Lumber for shelves--1965)	38.32
W. J. Beairsto Co. Ltd. (Installing heating system - 1965)	<u>2,000.00</u>
	<u>\$ 15,266.33</u>
<u>LESS - Federal Department of Public Works (Credit re Project N.B. 50, 1964)</u>	<u>718.49</u>
<u>TOTAL</u>	<u>\$ 14,547.84</u>

ITEM #7

Grading and Gravelling:-

Grading and application of gravel on City Roads and Streets.

Labor	\$ 505.70
Hired Trucks & Machinery.	831.00
City Machinery Charges ..	914.50
Materials (Gravel)	<u>206.92</u>
TOTAL	\$2,458.12

196.35 tons of crushed gravel was used in the maintenance and repairs to Gravel Roads under Roads and Streets.

The Gravel was purchased from S. S. Baird and Son at a contract price of \$1.06 per ton for Class "A" (1¼ crushed) gravel delivered to the job.

A stock pile was placed at the site of the Old City Dump on Wilsey Road for spring frost boils and excavation repairs.

ITEM #8

Lincoln Road:-

No expenditure was made on this road in 1965 under this heading.

ITEM #9

Wilsey Road:-

All work done on the Wilsey Road, other than work done by the Motor Graders.

The expenditure incurred on this road was for general maintenance to gravel surface and is made up as follows:-

Labor	\$ 22.40
Hired Trucks & Machinery	108.00
City Machinery	<u>18.00</u>
TOTAL	\$ 148.40

ITEM #10

Doak Road:-

All work done on the Doak Road, other than work done by the Motor Graders.

A section of the Flanagan Road near the Doak Road was ditched and widened. In addition a portion of the Doak Road, north of the Vanier Highway, was rebuilt due to frost boils occurring during the spring of 1965.

The right of way was also skirted out during the year.

The expenditure amounted to \$6,289.98 and was made up as follows:-

Labor	\$ 2,048.55
Hired Machinery (Ditching)	934.00
City Machinery	307.00
Material (Gravel)	<u>3,000.43</u>
TOTAL	<u>\$ 6,289.98</u>

ITEM #11

New Maryland Road:-

Expenditures in 1965 on this road was for clearing right of way and was made up as follows:-

Labor	\$ 660.62
City Machinery	<u>18.00</u>
TOTAL	<u>\$ 678.62</u>

ITEM #12

Asphaltic Concrete Repairs and Paving Driveway Entrances:-

Patching and repairing asphalt pavement, applying seal coat, light tar or asphalt to pavements and applying asphalt to driveways, (labor cost) - \$13,268.25

Total Cost:-

Labor	\$ 13,268.25
Hired Trucks & Machinery	1,189.00
City Machinery charges ...	7,141.50
Materials	<u>18,478.56</u>
TOTAL	<u>\$ 40,077.31</u>

In 1958 a large Aggregate Dryer and Aggregate Conveyor Belt was purchased to facilitate the mixing of patching material in the City Yard. This equipment has resulted in an improvement to the quality of the patching material produced at the yard and has also accelerated the operation.

When local contractors have plants set up, patching material can be obtained more economically. Patching material, when available, was obtained from Diamond Construction Company (1961) Ltd. and W. J. Gorman.

The total expenditure for Pavement Repairs and Driveways for 1965, including Workmen's Compensation, Pension Fund, Holidays, Sick Leave and Depreciation on the plant amounted to \$43,118.92 and was computed as follows:-

ASPHALT

Stock from 1964:-

3050 Gallons RC ₃	\$ 1,067.50
360 Gallons RS ₁	64.80
8100 Gallons RC ₃	3,072.47
2475 Gallons RS ₂	1,224.35
800 Gallons RS ₁	<u>240.00</u>
\$ 5,669.12

LESS - Stock for use in 1966

1530 Gallons RC ₃	\$ 581.40
90 Gallons RS ₂	<u>16.20</u>
\$ 597.60
	\$ 5,071.52
<u>PLUS - Freight and Cartage Charges</u>	<u>51.45</u>
	TOTAL GROSS\$ 5,122.97
<u>LESS - Credit on return of Drums</u>	<u>1,826.00</u>

NET COST OF LIQUID ASPHALT USED. \$ 3,296.97

Cost of Hot Mix Asphalt in patching streets
and driveways, obtained from Diamond
Construction Co. (1961) Limited and
W. J. Gorman\$ 12,136.70

Total Hot Mix Asphalt Cost	\$ 12,136.70
Liquid Asphalt	3,296.97
Kerosene (1741 Gallons)	508.37
Crushed Rock $\frac{3}{4}$ " (260 tons)	715.00
Crusher Dust (625 tons)	1,250.00
Gravel	76.68
Depreciation on Conveyor and Hopper and Dryer (Balance of Depreciation, \$1,305.36)	652.69
Maritime Electric Company	378.71
Repairs to Plant	78.99
Coal (8 tons)	192.00
City Labor (City employees, including Pension Fund, Workmen's Compensation and Holiday Account)	15,656.54
Hired Trucks and Machinery	1,189.00
City Machinery	7,141.50
Miscellaneous	<u>219.83</u>

TOTAL GROSS EXPENDITURE\$ 43,492.98

LESS CREDITS

(1) Paving Polio Clinic Drive- way	\$ 358.82
(2) Pavement for Recreation Department	4.13
(3) R.C.M.P. (Sewer repair)	<u>11.11</u>
	374.06

TOTAL NET COST\$ 43,118.92

ITEM #13

City Road Graders:-

Operator's Wages	\$ 1,002.73
Machinery Charges	<u>3,731.00</u>
TOTAL - For Labor and Machinery Charges ...	<u>\$ 4,733.73</u>

The repair costs for City Graders will be found on page 18 of this report under the heading "Roads and Streets."

ITEM #14

Parking Lots:-

The expenditure under this heading amounted to \$56.18 and was for the purchase of Cedar Posts from H. S. Gill and Sons.

ITEM #15

Paint Department:-

Painting, repairing and installing street signs on City Streets.

The total expenditure under this heading amounted to \$2,690.20, made up as follows:-

Labor	\$ 983.25
City Machinery	6.50
Materials	<u>1,700.45</u>
TOTAL	<u>\$ 2,690.20</u>

ITEM #16

Clearing along Rights-of-Way:-

In 1964 the clearing of Priestman Street from Regent Street to College Hill Road, to a width of 66 feet, was commenced and finished in January of 1965. In addition the right of way of New Maryland Road was cleared during March and April.

The expenditure under the above heading amounted to \$811.62 and was made up as follows:-

Labor	\$ 789.62
City Machinery ...	<u>22.00</u>
TOTAL	<u>\$ 811.62</u>

ITEM #17

Chip Seal and Seal Coating:-

In 1965 Diamond Construction (1961) Limited was awarded a contract to chip seal and seal coat a number of City Streets. The cost of this contract amounted to \$23,902.71 and was made up as follows:-

Plant Mix $\frac{1}{4}$ Minus, 894.35 tons @ \$13.50 per ton ..	\$ 12,073.73
Supply and Apply RS ₁ Tack Coat, 2700 Gallons @ \$0.50 per Gallon	1,350.00
Supply and Apply RS ₂ Asphalt, 15,164 Gallons @ \$0.40 per Gallon	6,065.60
Rock Chips - $\frac{3}{8}$ " - $\frac{1}{4}$ " - 588.45 tons @ \$7.50 per ton	4,413.38
TOTAL	\$ 23,902.71

The street preparatory work, other than laying in place of the premixed material and chips was done by regular city crews at an expenditure of \$1,793.16, made up as follows:-

City Labor	\$ 1,415.16
City Machinery	378.00
TOTAL	\$ 1,793.16

The total expenditure under this heading amounted to \$25,695.87 and was made up as follows:-

City Labor	\$ 1,415.16
City Machinery	378.00
Diamond Construction (1961) Ltd.	<u>23,902.71</u>
GROSS EXPENDITURE	\$ 25,695.87

The following streets were seal coated with $\frac{1}{4}$ " Hot Mix:-

<u>Location</u>	<u>Lineal Feet</u>
King Street, Northumberland St. to St. John Street	3,234
Regent Street, Canadian Pacific Railway to Brunswick Street	2,200
Regent Street, King's College Road to Montgomery St. ...	1,430
King's College Road, Regent Street to Windsor Street ...	1,160
York Street, Connaught Street to Albert Street	350
TOTAL	8,374

8,374 lineal feet = 1.58 miles

INFORMATION TO BIDDERS

The following streets are to be resurfaced with 1/4" minus hot mix surface seal, applied on a tack coat of RSL applied at the rate of - 0.1 gal./sq. yd. as per the attached specifications.

King Street - Northumberland to St. John Street.

York Street - C. N. R. tracks to King's College Road.

Regent Street - Brunswick St. to C. P. R. tracks.

King's College Road - Regent to College Line.

Regent Street - King's College Road to Montgomery St.

The following streets are to be Chip Sealed as per the attached specifications:

Connaught St. - Smythe to Westmorland Street.

Albert St. - Connaught to York Street.

Beaverbrook St. - Regent to Tweedsmuir St.

Westmorland St. - Aberdeen to Connaught St.

Northumberland St. - Aberdeen to Connaught

Aberdeen St. - York to Smythe St.

Dundonald St. - Smythe to York St.

The following streets were Chip Sealed
with 3/8" - 1/4" Chips:-

<u>Location</u>	<u>Lineal Feet</u>
✓ McKeen Street (partial, near south end of street)	100
✓ Dundonald Street, Smythe Street to York Street	1,910
✓ Connaught Street, Smythe Street to Westmorland Street ..	1,287
✓ Albert Street, Connaught Street to York Street	1,130
✓ Northumberland St., Saunders Street to Connaught Street.	1,950
✓ Westmorland Street, Saunders Street to Connaught Street. Regent Street, Canadian Pacific Railway to King's College Road	1,950
✓ Beaverbrook Street, Regent Street to Tweedsmuir Street..	600
TOTAL	11,097

Aberdeen St - Smythe St to York St.

11,097 lineal feet = 2.10 miles

~~1800~~
~~12,897~~
12,897

Total mileage for Seal coating and Chip sealing
= 3.68 miles.

Other Expenditures:-

In addition to all above expenditures included under Roads and Streets, there is an expenditure of \$8,697.90 which does not show in any of the above accounts and is made up as follows:-

Workmen's Compensation	\$ 6,050.00
Mobile Radios (Telephone Co.).....	697.27
Telephone Co. (Phones)	117.36
Unemployment Insurance Commission.	1,557.70
Province of N.B. (Registration of Vehicles, etc.)	80.00
Minister of Finance (Audit)	143.68
Neill's Wholesale	319.56
Car Allowance	110.00
Miscellaneous	<u>588.15</u>
TOTAL	\$ 9,663.72

LESS CREDITS:-

Workmen's Compensation	\$ 303.87
Gov't. of Canada (Winter Works N.B. 11, clearing Priestman Street)	<u>661.95</u>
NET EXPENDITURE	\$ 8,697.90
	<u>965.82</u>

TABLE COMPARING YEARLY COSTS OF LABOR AND HIRED MACHINERY ON ROADS AND STREETS ITEMS

ITEM	1962	1963	1964	1965
1. Snowplowing sidewalks	\$ 1,741.60	4,932.42	3,630.44	2,507.92
2. Snow Control	21,789.10	79,099.01	56,329.93	50,316.95
3. Sanding Streets	6,387.58	11,271.58	14,208.56	13,704.55
4. Surface Sewer	5,031.12	6,309.93	5,748.64	5,303.24
5. Yard	3,928.57	3,912.51	3,653.21	4,270.00
6. Streets Account	36,709.41	34,467.89	39,880.00	34,854.56
7. Grading and Gravelling	900.78	77.20	-----	1,336.70
8. Lincoln Road	646.56	-----	159.40	-----
9. Wilsey Road	635.03	444.36	1,380.57	130.40
10. Doak Road	372.62	668.90	201.75	2,048.55
11. New Maryland Rd.	-----	-----	-----	660.62
12. Tarvia Repairs	10,794.57	11,998.06	8,418.73	14,457.25
13. Road Graders	1,109.07	934.19	933.98	1,002.73
14. Parking Lots	212.50	30.33	96.41	-----
15. Paint Department	960.17	1,256.64	1,050.17	983.25
16. Clearing along Rights of Way	-----	-----	805.46	789.62
17. Chip Seal	-----	-----	-----	1,415.16
TOTALS =	\$91,218.68	155,403.02	136,497.25	133,781.50

The following items of machinery were purchased this year and charged to Roads and Streets:-

1 - Model Case 750D Crawler Dozer, Serial #7071236 Complete Transmission Model 601T S/N 2128462 Motor Model Case 267 S/N 2098348 Torque Conv. Spec #N-97027 Generator Delco #105228, S/NA 21-24 Volt\$ 12,264.36 Plus N.B.S.S. & E. Tax 3%.. <u>367.93</u> \$ 12,632.29
1 - 1965 Kaiser Jeep CJ5, ½ Metal Cab Dual Electric Wipers, Draw Bar, Half Metal Cab, Undercoated, Directional Signals, Changing Snow Plow Over, Serial #8305-10C, 11552, Motor #4J-407825\$ 3,135.40 Trade in on 1960 Willys Jeep <u>835.40</u> \$ 2,300.00 Plus N.B.S.S. & E. Tax 3%.. <u>69.00</u> 2,369.00
1 - 1965 Chev. ½ ton, Serial No. 5C1504615709, Motor Number 125176937, Key No. 9095\$ 2,665.00 Heater and Defroster 58.00 Right Side Mirror 6.00 Rear View Mirror 6.00 Undercoat 16.00 5-775 x 15, 4-ply nylon 14.00 \$ 2,765.00 Discount <u>749.00</u> \$ 2,016.00 Plus N.B.S.S. & E. Tax 3%.. <u>60.48</u> 2,076.48

1 - 1965 Chev. 3 ton Serial No.
 506503 618838, Motor Number
 165-412441, Color trim 5006

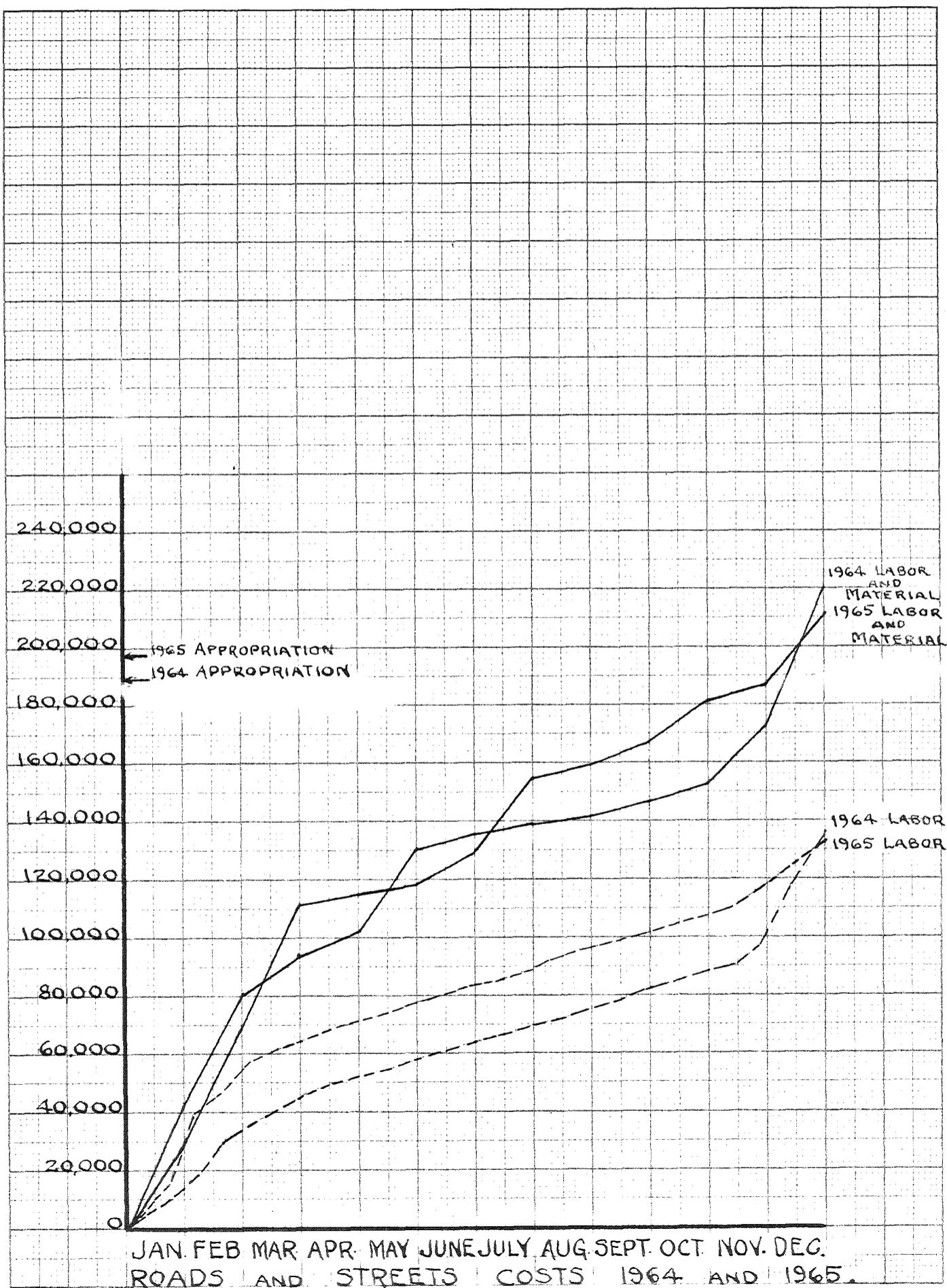
Key No. 9092	\$ 4,285.00
2 Speed Axle	177.00
Dash Heater and Defroster	58.00
Front Shocks	25.00
H. D. Front Springs	7.00
H. D. Rear Springs	15.00
Rear View Mirror	6.00
Set mud flaps not installed ..	12.00
Undercoat	16.00
P.T.O. installed	54.00
Spare wheel	31.00
2-825 x 20 - 10 ply front	67.00
4-825 x 20 - 10 ply rear	133.00
1-825 x 20 - 10 ply spare	85.00
20 x 6.5 Rims	26.00
Extra charge nylon tire	<u>75.00</u>
	\$ 5,072.00
Discount	<u>1,230.00</u>
	\$ 3,842.00
Less trade in, Ford Chassis and Cab, Year 1959, Serial #4816054YK	700.00
Trading Difference ..	<u>\$ 3,142.00</u>
Plus N.B.S.S. & E. Tax 3%.	94.26
License, Registration	<u>2.00</u>
	\$ 3,238.26
TOTAL	<u><u>\$ 20,316.03</u></u>

The following is a list of vehicles and machinery used in the Roads and Streets Department, together with the repair costs for 1964 and 1965, including tires and tubes.

<u>Name of Vehicle</u>	<u>Year Purchased</u>	<u>Repairs 1964</u>	<u>Repairs 1965</u>
Austin Western Grader (300 Pacer)	1962	\$ 2,167.52	\$ 1,164.15
Allis Chalmers Grader AD-40	1955	7,877.50	3,232.07
Galion Grader	1961	1,250.61	2,265.33
Caterpillar D-6 Bulldozer	1953	1,861.63	8,254.05
Case 420 Crawler Tractor	1961	3,074.71	1,393.37
Case 420 Crawler Tractor	1962	2,429.49	1,229.92
TD5 International Crawler Tractor	1963	2,601.87	2,235.13
Case 750D Bulldozer	1965		310.82
Hy Hoe 3/8 yd. Backhoe	1964	695.79	1,896.46
Unit 3/4 yd. Backhoe	1957	7,506.48	4,191.40
Pettibone Mulliken Loader	1958	1,568.51	7,246.10
Hough 50 Model Loader	1963	960.95	1,621.21
Airpic Compressor	1953	10.61	120.54
Ingersol Rand Compressor	1957	1,054.21	86.30
Copco Compressor	1964	32.70	29.70
Tarvia Roller Model #157	1955	235.43	940.49
Willys Jeep #11	1961	244.81	567.37
Willys Jeep #12	1962	385.83	434.98
Willys Jeep #17 (Traded in 1965)	1960	423.27	112.64
Willys Jeep #17	1965	----	143.27
Willys Jeep #40	1962	754.96	282.53
Dodge 3 ton	1963	92.67	237.65
G.M.C. 3 ton	1962	518.21	622.33
International 3 ton	1961	528.38	425.52
Chevrolet 3 ton	1960	292.60	291.81
Ford 3 ton (Traded in 1965)	1959	491.14	64.59
Chevrolet 3 ton	1965	----	497.15
International ½ ton	1964	105.16	904.38
International 1 ton	1959	194.67	201.21
Chevrolet (Panel)	1963	17.18	168.02
Chevrolet ½ ton	1965	----	69.15
Ford (Tudor 300)	1963	145.71	446.07
Expendable Accessories (Grader Blades, Bolts, Nuts, Bulldozer Blades and Corners, Tools, etc.)		<u>9,252.88</u>	<u>6,624.66</u>
TOTAL COST		<u>\$ 46,775.48</u>	<u>\$ 48,210.37</u>

The following equipment is used on Snow Control and repair and maintenance cost for this equipment is shown as follows:-

<u>Name of Vehicle</u>	<u>Year Purchased</u>	<u>Repairs 1964</u>	<u>Repairs 1965</u>
Sicard Snow Blower #30	1949	\$ 552.50	\$ 1,534.55
Sicard Snow Blower #39 (1952 Model)	1961	656.48	915.46
Sicard Snow Blower #47	1963	358.03	719.49
Ford Sand Spreader	1960	<u>735.82</u>	<u>890.08</u>
TOTAL COST		<u>\$ 2,302.83</u>	<u>\$ 4,059.58</u>



WINTER WORKS PROGRAM

The Public Works Department in 1965 took advantage of assistance offered under the Winter Works Incentive Program on all projects which qualified for same.

Assistance was obtained on several projects which were part of the Capital Works Program for the year and which were commenced or were in progress during the period for which assistance is available; namely November 1st to April 30th.

The following is a list of projects on which assistance was obtained and the credits for the same appear in the appropriate accounts or will be credited in 1966 when claims are finalized.

NOVEMBER 1, 1964 - APRIL 30, 1965

<u>Number</u>	<u>Description</u>	Total Payroll Cost	Amount Claimed 1964	Amount Claimed 1965	Net Labor Cost to City of Fredericton
N.B.-8	Installation of Services, Skyline Acres	\$ 7,514.29	\$ 178.60	\$1,906.98	\$5,428.71
N.B.-9	Clearing Right of Way, Oxford and Willingdon Streets	3,460.73	215.32	976.97	2,268.44
N.B.-11	Clearing on Priestman Street	1,658.23	343.65	318.30	996.28
N.B.-12	Installing Water and Sewer Mains Wilsey Road	3,384.90	845.12	229.07	2,310.71
N.B.-61	Clearing and Grubbing Areas for Ski Runs, Odell Park	1,162.46	346.73	-----	815.73
N.B.-108	Clearing Right of Way - Prospect and Lynhaven Streets	2,003.71	-----	808.46	1,195.25
TOTALS FOR PERIOD Nov. 1/64 to April 30/65		\$19,184.32	1,929.42	4,239.78	13,015.12

CAPITAL ACCOUNT CURB AND GUTTER

The net expenditure under this heading amounted to \$42,564.45.

For the above expenditure of \$42,564.45, concrete curb and gutter was constructed at the following locations:-

All the above listed Curb and Gutter was constructed by City Crews.

All the concrete poured was purchased ready-mixed from the firm of Elmtree Concrete Limited, at a price of \$14.95 per cubic yard. A cubic yard of concrete poured 20.6 lineal feet of Curb and Gutter.

The unit cost of one lineal foot of Curb and Gutter, found by dividing the total length laid, which equals 18,941 lineal feet, into the total cost of \$42,564.45 is \$2.25 per lineal foot.

The topsoiling of Boulevards is included in the above cost.

CAPITAL ACCOUNT PAVING

In 1965 the City Council authorized the paving of Smythe Street from Montgomery Street to Beechwood Crescent (south entrance). This pavement was laid by Diamond Construction (1961) Limited.

The expenditure amounted to \$8,242.08 and was made up as follows:-

Diamond Construction (1961) Limited	(713.9 tons Asphalt @ \$9.50 per ton	\$ 6,782.05
	(Supply and Apply N.B.Primer	
	(1500 Gallons @ \$0.40 per Gal.)..	600.00
Royal Mills Limited	(52 heavy jute bags)	7.80
Journal Voucher (Cement and Brick)	21.13
Journal Voucher (Machinery)	358.00
City Labor	<u>473.10</u>
	TOTAL	\$ 8,242.08

The street grading and preparatory work, other than laying in place of the pre-mixed material, was done by regular city crews.

CAPITAL ACCOUNT DOMESTIC SEWER

Gross Expenditure and Stocked Material	\$ 98,808.07
<u>Less Inventory, Dec. 31/65 ...</u>	<u>5,013.19</u>
	\$ 93,794.88
Credits	<u>63,801.59</u>
NET EXPENDITURE	\$ 29,993.29

Included in the net expenditure of \$29,993.29 is the amount of \$2,244.28 holdback from jobs completed in 1964 and showing in 1965 accounts.

The above credits are made up as follows:-

"A and D" Corporation)	\$ 8,042.04
Parkside Development)	2,168.00
Donald Grant)	618.00
W. W. Colpitts) Local	10.00
E. C. Atkinson) Improvement	2,578.00
Hill Bros. and Roy Bunker) Charges	3,555.00
Fredericton Housing Ltd.)	7,188.40
Greendale Ltd.)	5,253.20
Montgomery-Campbell)	1,380.00
Carleton Realty)	3,806.80
 Municipal Development Loan - Credit re M.D.L.-7			
Regent Street			13,600.00
 Municipal Development Loan - Credit re M.D.L.-11			
College Hill Road			3,567.25
 Municipal Development Loan - Credit re M.D.L.-12			
York Street			8,739.67
 Journal Voucher (Materials paid for by Capital Account Domestic Sewer and used by private parties)			838.41
 Journal Voucher (Materials paid for by Capital Account Domestic Sewer and used by other City Departments)			<u>2,456.82</u>
 TOTAL			\$ 63,801.59

Domestic Sewer Mains were constructed at the following locations:-

Location	Lineal Feet		
	6" Transite	8" Transite	10" Transite
"A and D" Corporation		1,215	
Parkside Development		533	
(Prospect Street)			
D. Grant and Colpitts		330	
(Squires Street)			
E. C. Atkinson Subdivision		671	
Hill Bros. Subdivision		1,164	
F'ton Housing Ltd.		2,510	
(Skyline Acres)			
Greendale Limited		1,468	
Montgomery-Campbell		795	
Carleton Realty		1,340	
City of Fredericton		2,449	
(York St., etc.)		689	
College Hill Road	100	406	
Regent Street		78	
Titus Street			
TOTALS	=	100	13,648
			1,959

The actual cost of installing the above listed Sewer Mains was as follows:-

Cost by City Crews and Machinery per Lineal Foot

Size of Pipe	Fredericton Housing Ltd.	Titus Street
8"	\$ 4.92	\$ 4.87

Cost by Hired Machinery and Crew Payrolls per Lineal Foot

Size of Pipe	D. Grant & Colpitts (Squires Street)
8"	\$ 5.40

Materials in Stock, December 31, 1965:-

537½ lineal feet of 8" T. C. Pipe @ \$0.86 per foot	\$ 462.25
27½ lineal feet of 10" T.C. Pipe @ \$1.19 per foot	32.73
35 lineal feet of 12" T.C.Pipe @ \$1.55 per foot	54.25
1404 lineal feet of 8" Asbestos Pipe @ \$1.42 per foot ..	1,993.68
307 lineal feet of 10" Asbestos Pipe @ \$1.73 per foot ..	531.11
205 lineal feet of 12" Asbestos Pipe @ \$2.40 per foot ..	492.00
13 Pre-Cast Manhole bottoms @ \$10.07 each	30.21
32 Manhole Covers and Frames @ \$44.28 each	<u>1,416.96</u>
TOTAL	\$5,013.19

CAPITAL ACCOUNT SURFACE SEWER

Gross Expenditure and Stocked Material	\$ 209,236.78
Less Inventory, Dec. 31, 1965	<u>7,044.18</u>
	\$202,192.60
Credits	<u>106,491.43</u>
Net Expenditure	\$ 95,701.17

Included in the net expenditure of \$95,701.17 is the amount of \$3,747.51 holdback from jobs completed in 1964 and showing in 1965 accounts.

The above credits are made up as follows:-

"A and D" Corporation)	\$ 9,919.30
Parkside Development)	2,759.00
Donald Grant)	815.25
W. W. Colpitts) Local	11.25
E. C. Atkinson) Improvement	3,140.25
Hill Bros. and Roy Bunker) Charges	4,359.38
Fredericton Housing Ltd.)	8,866.95
Greendale Limited)	6,569.85
Montgomery-Campbell)	1,672.50
Carleton Realty)	4,642.65

Municipal Development and Loan Board, Credit M.D.L.-7 (Regent Street)	20,000.00
Municipal Development and Loan Board, Credit M.D.L.-11 (College Hill Road)	4,255.67
Municipal Development and Loan Board, Credit M.D.L.-12 (York Street)	19,372.00

Work done and materials sold to Private Parties, other than above	2,128.15
Government of Canada (Winter Works Incentive Program)	1,564.18
Journal Voucher (Materials paid for by Capital Account Surface Sewer and used by other City Departments)	<u>16,415.05</u>
TOTAL	\$ 106,491.43

Under this heading Surface Sewer Mains were constructed at the following locations:-

Location	Concrete Pipe						
	10"	12"	15"	18"	24"	30"	36"
"A and D" Corporation Parkside Development (Prospect Street)	450 37	418 524	310	882	20	987	1,001
G. Grant and Colpitts	66	365					
E. C. Atkinson	81	698					
Hill Bros.	81	619	294	190			
Fredericton Housing Ltd.	276	1,384	780	560			
Greendale Limited	168	148	584	917			
Montgomery-Campbell	155	164		309			
Carleton Realty	164	172		1,207			
City of Fredericton (York St. etc.)	243	1,114	918	353			158
College Hill Road	79	787					
Regent Street	76	220	286	28	19		
Dedham Street			216				
Hillcrest Drive	66	273					
TOTALS =	1,942	7,102	3,172	4,446	236	987	1,159

Total lineal feet all sizes - 19,044

An itemized account was kept of installing Surface Sewers at the following locations and expenditures were made as follows:-

Location	Payment to Contractors Including Reserves for Holdbacks	City Labor and Machinery	Materials	Total
"A and D" Corporation	\$ 21,538.16	\$ 567.21	\$ 23,257.47	\$ 45,362.84
Parkside Development	3,372.00	77.90	1,075.31	4,525.21
*D. Grant & Colpitts (Squires Street)	935.57	111.83	1,079.26	2,126.66
E. C. Atkinson sub-division	5,667.00	114.50	1,693.75	7,475.25
Hill Bros.	7,854.50	157.21	3,061.19	11,072.90
Fredericton Housing Ltd.		18,397.40	12,393.00	30,790.40
Greendale Limited	13,564.50	230.76	5,668.04	19,463.30
Montgomery-Campbell	6,638.00	85.21	3,209.53	9,932.74
Carleton Realty	4,786.60	451.42	4,333.28	9,571.30
City of Fredericton (York Street, etc.)	21,067.00	282.82	9,794.30	31,144.12
College Hill Road	4,331.00	137.01	1,856.96	6,324.97
Regent Street (1965)	3,742.55	1,403.88	2,611.88	7,758.31
Dedham Street		436.32	270.22	706.54
Hillcrest Drive		1,186.88	821.60	2,008.48
TOTALS =	\$ 93,496.88	\$ 23,640.35	\$ 71,125.79	\$ 188,263.02

* Hired Machinery and Crew Payroll -- Ashfield Construction Co.

The total cost of installing Surface Sewer on Regent Street for 1964 and 1965 was \$31,413.54.

All above costs include any holdback payments which will appear in 1966 accounts but do not include credits from Winter Works Assistance.

City Workmen and City Machinery installed Surface Sewers at the following locations:-

Fredericton Housing Subdivision
(Skyline Acres)
Dedham Street
Hillcrest Drive

Following is the cost for laying various sizes of pipe, including Catch Basins in place by Contractors, City Workmen and Hired Machinery and Crew Payroll:-

Cost by Contractor per Lineal Foot

Location	Concrete Pipe						
	10"	12"	15"	18"	24"	30"	36"
"A and D" Corporation	\$ 7.57	7.75	8.29	8.79	11.47	12.72	15.65
Parkside Development	7.90	8.08					
E.C. Atkinson (Subdivision)	9.43	9.61					
Hill Bros. (Subdivision)	8.88	9.06	9.60	10.10			
Greendale Ltd.	9.85	10.03	10.57	11.07			
Montgomery-Campbell (subdivision)	10.61	10.79		11.83	14.51		
Carleton Realty (Irvine St.)	5.23	5.41		6.45			
City of Fredericton (York St., etc.)	10.26	10.44	10.98	11.48			
College Hill Road	7.14	7.32					
Regent Street	6.84	6.90	7.41	8.06	10.74		

Cost by City Crews and Machinery per Lineal Foot

Size of Pipe	Fredericton Housing Subdivision	Dedham Street	Hillcrest Drive
18"	\$ 10.99		
15"	10.49		
12"	9.95	\$ 3.27	
10"	9.77		\$ 5.96 5.78

Cost by Hired Machinery and Crew Payroll per foot

Size of Pipe	D. Grant and Colpitts (Squires Street)
12"	\$ 5.06
10"	\$ 4.88

Stock on hand, December 31, 1965:-

544	lineal feet of 10" Concrete Pipe @ \$0.92 per foot	...\$ 500.48
1432	lineal feet of 12" Concrete Pipe @ \$1.10 per foot	... 1,575.20
658	lineal feet of 15" Concrete Pipe @ \$1.64 per foot	... 1,079.12
292	lineal feet of 18" Concrete Pipe @ \$2.14 per foot	... 624.88
120	lineal feet of 24" Concrete Pipe @ \$4.82 per foot	... 578.40
132	lineal feet of 30" Concrete Pipe @ \$6.07 per foot	... 801.24
4	lineal feet of 36" Concrete Pipe @ \$9.00 per foot	... 36.00
19	Pre-Cast Catch Basin bottoms @ \$15.11 each 287.09
Catch Basins (Covers and Frames) 37 @ \$42.21 each	 <u>1,561.77</u>
TOTAL	 \$ <u>7,044.18</u>

CAPITAL ACCOUNT WATER

Gross Expenditure & Stocked Material	\$ 200,768.98
<u>Less Inventory, Dec. 31, 1965</u>	<u>34,815.15</u>
	\$ 165,953.83
<u>Less Credits</u>	<u>71,449.63</u>
Net Expenditure	\$ 94,504.20

Included in the net expenditure of \$94,504.20 is the amount of \$1,983.55 holdback from jobs completed in 1964 and shown in 1965 accounts.

The above credits are made up as follows:-

"A and D" Corporation).....	\$ 7,036.79
Parkside Development)	1,897.00
Donald Grant)	540.75
W. W. Colpitts) Local	8.75
E. C. Atkinson) ... Improvement	2,255.75
Hill Bros.) ... Charges	3,110.63
Fredericton Housing Ltd.)	6,289.85
Greendale Ltd.)	4,596.55
Montgomery-Campbell)	1,207.50
Carleton Realty)	3,330.95
Municipal Development and Loan Board - Credit re M.D.L.-7 (Regent Street)		19,733.33
Municipal Development and Loan Board - Credit re M.D.L.-11 (College Hill Road)		4,193.08
Municipal Development and Loan Board - Credit re M.D.L.-12 (York Street)		14,584.67
Work done and materials sold to private parties, other than above		2,395.79
Journal Voucher (Materials paid for by Capital Account Water and sold to other City Departments) ..		268.24
TOTAL		<u>\$ 71,449.63</u>

Water Main installations were made at the following locations:-

Location	Size of C. I. Pipe				
	12"	10"	8"	6"	4"
"A and D" Corporation	708	381	1,894	114	224
Parkside Development (Prospect St.)			545	24	
D. Grant and Colpitts (Squires Street)				489	
E. C. Atkinson (subdivision)				779	
Hill Bros. (subdivision)			841	328	
F'ton Housing Ltd. (Skyline Acres)		580	873	1,012	83
Greendale Limited		1,668	85	38	
Montgomery-Campbell			545	233	
Carleton Realty		1,296	16	36	
City of Fredericton (York St.etc.)			2,129	422	
College Hill Road	50	369			
Regent Street		443		311	41
TOTALS =	758	4,737	6,928	3,786	348

Total lineal footage, all sizes -- 16,557

An itemized account was kept of installing water mains at the following locations and expenditures were made as follows:-

Location	Payment to Contractors Including Reserves for Holdbacks	City Labor and Machinery	Materials	Total
"A and D" Corporation	\$ 9,397.50	277.05	21,225.19	30,899.74
Parkside Development	1,931.50	45.27	2,559.82	4,536.59
* D. Grant and Colpitts (Squires Street)	935.57	41.16	1,616.73	2,593.46
E. C. Atkinson (subdivision)	2,782.00	80.69	2,586.10	5,448.79
Hill Bros. (Subdivision)	4,535.50	199.76	5,483.30	10,218.56
Fredericton Housing Ltd.		5,985.42	13,147.21	19,132.63
Greendale Limited	7,391.25	74.05	12,691.09	20,156.39
Montgomery-Campbell	3,378.00	95.71	3,878.66	7,352.37
Carleton Realty	2,723.50	165.97	8,283.04	11,172.51
City of Fredericton (York Street, etc.)	9,794.50	93.54	13,446.99	23,335.03
College Hill Road	2,690.00	35.84	3,516.56	6,242.40
Regent Street	2,621.59	1,715.58	5,569.67	9,906.84
TOTALS =	\$ 48,180.91	8,810.04	94,004.36	150,995.31

* Hired Machinery and Crew Payroll (Ashfield Construction Company)

The total cost of installing Water Main on Regent Street for 1964-1965 was \$29,887.78.

All above costs included any holdback payments which will appear in 1966 accounts but do not include credits from Winter Works Assistance or holdbacks from 1964 projects.

City Machinery and City Workmen installed the Water Main at Skyline Acres (Fredericton Housing subdivision).

The Water Main on Squires Street was installed by Ashfield Construction Company (Hired Machinery and Crew Payroll).

The following shows the cost per foot for laying various sizes of Cast Iron Pipe by Contractor, City Workmen and Hired Machinery and Crew Payroll and includes gates and manholes, but not including fire hydrants.

Cost by Contractor per Lineal Foot

Location	Size of Pipe				
	4"	6"	8"	10"	12"
"A and D" Corporation	\$ 6.79	7.66	8.91	10.28	11.62
Parkside Development		6.77	8.02		
E. C. Atkinson (subdivision)		6.96			
Hill Bros. (subdivision)		7.84	9.09		
Greendale Limited		8.76	10.01	11.38	
Montgomery-Campbell (subdivision)		8.57	9.82		
Carleton Realty		5.84	7.09	8.46	
City of Fredericton (York St., etc.)		8.10	9.35		
College Hill Road				14.74	16.08
Regent Street	6.56	7.43	8.19	10.05	10.53

Cost by City Workmen and Machinery per Lineal Foot

Location	Size of Pipe			
	4"	6"	8"	10"
Fredericton Housing Ltd. (Skyline Acres)	\$ 5.76	6.63	7.88	9.25

Cost by Hired Machinery and Crew Payroll per Lineal Foot

Location	Size of Pipe	
	6"	8"
D. Grant & Colpitts (Squires Street)		\$ 5.31

CAPITAL ACCOUNT WATER EXPLORATION (1965)

Included in the net expenditure for "Capital Account Water" is the expenditure of \$13,597.08 under "Capital Account Water Explorations 1965".

A test hole drilling program was authorized in 1965, in order to determine a source of future water supply for the City of Fredericton.

Eleven holes were drilled in 1965 and the soil formation was sampled and recorded at ten foot intervals in the drill holes.

The location of the drilling program was along the shore of the Saint John River commencing at the upper line of the Fredericton waterworks property. The drill holes were spaced 200 feet in a westerly direction and drilled to a maximum depth of 140 feet or to the underlying glacial till formation.

The object of the drilling program was to obtain information on the subsurface or underlying soils formation along the river front, anticipating that a sand and gravel formation would be encountered from which a future supply of water could be obtained.

The geological subsurface formation of the Fredericton area, as determined by past test drilling experience, has been found to be very inconsistent and the 1965 test drilling program has added further evidence to this conclusion.

The information obtained to date has not been encouraging, due to the chemical characteristics of the water samples obtained from the test holes.

Further test drilling and water sampling and analysis will be necessary in 1966, before a decision can be made as to a recommended source of future water supply for the City of Fredericton.

If it is found that a water supply, without objectionable iron and manganese chemical characteristics cannot be found, it may be necessary to modify certain sections of the original filtration plant, so that a treatment process may be used, to remove the iron and manganese.

Manganese and iron removal processes are currently in use in Municipalities in the United States and treatment costs vary from five to eight cents per thousand gallons of water processed.

The foregoing described work being carried out is based on a policy decision of Fredericton City Council (made in 1953) when it was decided that a ground water source of supply for the City of Fredericton was more desirable than using the Saint John River as a source of supply.

A summary of ground water exploration and development costs from 1953 to date is as follows:-

Cost of Well Water Supply to Date (South Side)

1953	Test Hole Program	\$ 7,500.00	✓
1954	Supply line and partial development #1 Well	42,271.16	
1955	Develop, House and connecting of #1 Well	22,883.05	
1956	Remote Control and Landscaping	3,048.33	
1957	Develop, House and connecting of #2 Well	44,217.72	
1958	Holdbacks, etc	7,641.01	
1958	and 1959 Test Hole Program	24,294.40	✓
1960	and 1961 Develop, House and connecting of #3 Well...	46,554.32	
1961	Develop, House and connecting of #4 Well	42,834.45	
1962	Remote control and landscaping #4 Well	1,011.41	
1965	Test Hole Program (Water exploration)	<u>13,597.08</u>	
	TOTAL	<u>\$255,852.93</u>	

Capacity Available ---- 2300 I.G.P.M.

Present Average Demand --- 1150 I.G.P.M.

Maximum Demand ----- 1600 I.G.P.M.

CAPITAL ACCOUNT GRAVEL ROADS

Gross Expenditure	\$ 149,774.78
Credits	<u>59,279.77</u>
Net Expenditure	<u>\$ 90,495.01</u>

The above credits of \$59,304.77 are made up
as follows:-

"A and D" Corporation)	\$ 10,052.55
Parkside Development (Prospect St.))	2,710.00
Donald Grant (Squires Street))	772.50
E. C. Atkinson (subdivision))	... Local	3,222.50
Hill Bros. (subdivision))	.. Improvement	4,443.75
Fredericton Housing Ltd. (Skyline Acres))	... Charges	8,985.50
Greendale Limited)	6,566.50
Montgomery-Campbell)	1,950.00
Carleton Realty)	4,583.50
Government of Canada (Winter Works N.B.-108, Montgomery- Campbell)		808.46
Government of Canada (Winter Works N.B.-9, Hill Bros.)..			1,192.11
Government of Canada (Winter Works N.B.-8, Skyline Acres)			521.40
Municipal Development and Loan Board, Credit M.D.L.-11, (College Hill Road)...			500.67
Municipal Development and Loan Board, Credit M.D.L.-12, (York Street)			<u>12,970.33</u>
TOTAL		\$	<u>59,279.77</u>

Included in the above expenditures are:-

- 1) Grading and Gravelling newly curbed streets.
- 2) Gravel Road Construction.

1) Grading and Gravelling Curbed Streets

The list of Streets under this heading will be found under the heading "Capital Account Curb and Gutter," which is contained in the body of this report on Page 20.

2) Gravel Road Construction

The following Streets were constructed and gravelled under this heading:-

<u>Location</u>	<u>Lineal Feet</u>
McNair Drive).....	1,583
Limerick Road).....	985
Hearne Street)... "A and D" Corporation	291
Richards Court).....	256
Prospect Street (Parkside Development)	550
Squires Street (D. Grant and W. W. Colpitts)	470
Lisgar Street (E. C. Atkinson and City of Fredericton)...	1,108
Massey Street).....	1,441
Lorne Street).....	275
York Street)... City of Fredericton and Hill Bros...	1,280
Dufferin Street).....	220
Liverpool Street).....	859
Bristol Street)... Fredericton Housing Limited	410
Norfolk Drive).....	1,400
Eglinton Street)	1,069
) Greendale Limited	
Oxford Street).....	544
Studholm Street)	330
) C. Montgomery-Campbell	
Lynnhaven Street)	489
Irvine Street (Carleton Realty)	<u>1,380</u>
TOTAL	<u>14,940</u>

An itemized account was kept of constructing and graveling Streets at the following locations:-

Location	Payment to Contractors Including Reserves for Holdbacks	City Labor and Machinery	Material	Total
"A and D" Corporation	\$ 6,844.20	1,665.43	11,317.36	19,826.99
Parkside Development		3,046.59	2,318.63	5,365.22
D. Grant and Colpitts		1,226.93	1,643.69	2,870.62
E. C. Atkinson (sub- division)		1,477.15	2,135.02	3,612.17
Hill Bros.		1,864.31	3,986.81	5,851.12
Fredericton Housing		12,289.02	9,275.23	21,564.25
Greendale Limited		8,127.43	7,201.91	15,329.34
Montgomery-Campbell		2,692.24	2,935.67	5,627.91
Carleton Realty		2,453.06	5,108.55	7,561.61
City of Fredericton (York Street, etc.)		10,738.72	10,365.41	21,104.13
College Hill Road		85.63	699.32	784.95
TOTALS =	\$ 6,844.20	45,666.51	56,987.60	109,498.31

In addition .37 miles of new Road was constructed, gravelled and paved on Forest Hill Road and appears under the heading "Capital Account Access Road, Forest Hill."

CAPITAL ACCOUNT FOREST HILL ACCESS ROAD

In 1964 the City of Fredericton entered into a contract with Diamond Construction Company (1961) Limited to construct a new access road to Forest Hill.

The construction was commenced in 1964 and completed in 1965.

Preliminary work such as acquiring certain property and surveying by Anric Engineering Limited was done in 1963.

Expenditures to December 31, 1965 were made up as follows:

Expenditure 1963	\$ 10,285.34
Expenditure 1964	48,363.81
Expenditure 1965	<u>69,837.87</u>
Total Expenditures	\$128,487.02
Less shared cost items submitted to Provincial Government	<u>45,269.77</u>
Total net cost to City of Fredericton	<u>\$ 83,217.25</u>

For the above expenditure the road was constructed and paved, curb and gutter was laid and an asphaltic sidewalk was constructed along the south side of the Road. Surface Sewers were also installed where necessary.

CAPITAL INDUSTRIAL AREA WATER and SEWER

In 1965 no expenditures were incurred under this heading, although there is a credit showing of \$229.07 due to receivable accounts in 1964 and not shown in 1964 accounts. The above credit was from the Government of Canada (Winter Works N.B.-12) for the laying of Water and Sewer on Wilsey Road in 1964.

CAPITAL ACCOUNT BEAVERBROOK STREET

Expenditure\$ 3,180.07

The above expenditure was made up as follows:-

Diamond Construction Co. (1961) Ltd.	\$ 2,100.00
Journal Voucher (City Machinery)	269.00
Journal Voucher (City Labor and Hired Trucks)	<u>811.07</u>
TOTAL	\$ 3,180.07

For the above expenditure, the major portion of this road was cleared and approximately 800 feet was rough graded from the eastern entrance on Waterloo Row towards University Avenue. Further construction on this road was halted by an injunction served on the City of Fredericton; the outcome of which to this date has not been decided.

CAPITAL ACCOUNT INDUSTRIAL DEVELOPMENT

Expenditure	\$ 4,353.40
Credit	<u>5,000.00</u>
CREDIT	\$ 646.60

The credit of \$5,000.00 was amount received from New Brunswick Development Corporation for grading at Pyramid Homes location on Wilsey Road. This work will be completed in 1966.

The above expenditures were made up as follows:-

Seaboard Surveys (Surveying various lots at the Industrial Area)	\$ 663.93
S. S. Baird and Sons (Gravel to Pyramid Homes)	823.62
Journal Voucher (Machinery at Pyramid Homes)	964.00
Journal Voucher (Pipe)	17.12
Journal Voucher (Labor and hired trucks, Pyramid Homes)...	<u>1,884.73</u>
TOTAL	\$ 4,353.40

823.62

964.00

1884.73

522.00

3672.35

3672.35

1327.65

CENTENNIAL PROJECTS

The Fredericton City Council accepted the recommendation of the appointed Centennial Committee to carry out works in Odell Park and on an area at the intersection of McEvoy and Noble Streets, as the Centennial Projects to commemorate the centenary of Confederation.

The Federal and Provincial Governments have initiated the commemoration of the centennial by assisting municipalities to the extent of one dollar per capita from each level of government towards the projects.

CAPITAL ODELL PARK CENTENNIAL

Expenditure to date	\$ 18,788.13
Less allowable Progress share by Centennial Admin. - 25% of 53.86%	
Estimated Cost (\$66,000.)	<u>8,778.50</u>
Net Expenditure to December 31, 1965	\$ 10,009.63

Clearing, grading, topsoiling and seeding of the areas abutting Waggoner's Lane and Rookwood Avenue entrance have been completed.

Clearing, grubbing, topsoiling and seeding have been completed in the family picnic area.

Clearing of underbrush and grubbing have been completed in the group picnic area.

Pruning of dead wood from trees surrounding the picnic areas and other areas where hazards to the public existed, has been completed.

The children's playground area has been cleared, grubbed and recreational facilities erected.

Grading and topsoiling along the Back Drain Diversion has been completed. A number of trees have been planted in the area; picnic tables, benches and fireplaces have been set up in the picnic areas.

A wheel-type tractor with mowing attachments and trailer has been purchased at a cost of \$4,526.85 including Provincial S. S. and E. Tax.

The foregoing listed works could not have been carried out without the able assistance of the 1965 chairman of Public Works, Alderman Professor L. R. Seheult. Alderman Seheult spent many hours of his free time during the summer months in Odell Park advising and assisting in the work being carried out.

Alderman Seheult has been a very valuable member of the Centennial Committee and of great assistance to the Public Works Department and his efforts have been very much appreciated.

The Program will continue in 1966.

CAPITAL CENTENNIAL CARLETON WARD

Expenditure to date	\$ 6,391.30
Less allowable progress share by Centennial Admin.	<u>1,326.50</u>
Net Expenditure to December 31, 1965	<u>\$ 5,064.80</u>

The area selected will be developed into an Athletic Field.

Progress has been made with the construction of a storm sewer line along a natural drain area and rough grading of the overall area has been approximately 90% completed.

The completion of rough grading, topsoiling and seeding will be carried out in 1966.

LOCAL IMPROVEMENT

Local Improvement charges to developers were increased in 1964 under By-Law No. 81, a By-Law to amend By-Law No. 18.

The following summary of Local Improvement Projects undertaken in 1965 show the actual cost, subdivider's share and net cost to the City of Fredericton.

"LOCAL IMPROVEMENT COSTS - 1965 (INCLUDES HOLDBACKS)"

<u>Location</u>	<u>Service</u>	<u>Cost</u>	<u>Subdivider's Share at By-Law Rates</u>	<u>Cost to City of Fredericton</u>
A & D Corp. Subdivision off Wilsey Road	Water Domestic Sewer Storm Sewer Gravel Roads	\$ 30,899.74 15,663.42 45,362.84 19,826.99	\$ 7,036.79 8,042.04 9,919.30 10,052.55	\$ 23,862.95 7,621.38 35,443.54 9,774.44
	TOTALS =	<u>\$111,752.99</u>	<u>\$ 35,050.68</u>	<u>\$ 76,702.31</u>
Prospect St. Parkside Development Subdivision	Water Domestic Sewer Storm Sewer Gravel Roads	\$ 4,536.59 2,891.46 4,525.21 5,365.22	\$ 1,897.00 2,168.00 2,759.00 2,710.00	\$ 2,639.59 723.46 1,766.21 2,655.22
	TOTALS =	<u>\$ 17,318.48</u>	<u>\$ 9,534.00</u>	<u>\$ 7,784.48</u>
(Squires St.) Donald Grant and W. W. Colpitts Subdivision	Water Domestic Sewer Storm Sewer Gravel Roads	\$ 2,593.46 1,781.89 2,126.66 2,870.62	\$ 549.50 628.00 826.50 785.00	\$ 2,043.96 1,153.89 1,300.16 2,085.62
	TOTALS =	<u>\$ 9,372.63</u>	<u>\$ 2,789.00</u>	<u>\$ 6,583.63</u>

<u>Location</u>	<u>Service</u>	<u>Cost</u>	<u>Subdivider's Share at By-Law Rates</u>	<u>Cost to City of Fredericton</u>
E. C. Atkinson (Lisgar St.)	Water	\$ 5,448.79	\$ 2,255.75	\$ 3,193.04
	Domestic Sewer	3,865.80	2,578.00	1,287.80
	Storm Sewer	7,475.25	3,140.25	4,335.00
	Gravel Roads	<u>3,612.17</u>	<u>3,222.50</u>	<u>389.67</u>
	TOTALS =	\$ 20,402.01	\$ 11,196.50	\$ 9,205.51
		<u> </u>	<u> </u>	<u> </u>
Massey & Lorne Streets	Water	\$ 10,218.56	\$ 3,110.63	\$ 7,107.93
Hill Bros. & Roy Bunker	Domestic Sewer	6,598.50	3,555.00	3,043.50
	Storm Sewer	11,072.90	4,359.38	6,713.52
	Gravel Roads	<u>7,043.23</u>	<u>4,443.75</u>	<u>2,599.48</u>
	TOTALS =	\$ 34,933.19	\$ 15,468.76	\$ 19,464.43
		<u> </u>	<u> </u>	<u> </u>
Skyline Acres	Water	\$ 19,132.63	\$ 6,289.85	\$ 12,842.78
F'ton Housing	Domestic Sewer	12,341.92	7,188.40	5,153.52
	Storm Sewer	30,790.40	8,866.95	21,923.45
	Gravel Roads	<u>22,085.65</u>	<u>8,985.50</u>	<u>13,100.15</u>
	TOTALS =	\$ 84,350.60	\$ 31,330.70	\$ 53,019.90
		<u> </u>	<u> </u>	<u> </u>
Oxford and Eglington Greendale Ltd. Subdivision	Water	\$ 20,156.39	\$ 4,596.55	\$ 15,560.14
	Domestic Sewer	9,583.21	5,253.20	4,330.01
	Storm Sewer	19,463.30	6,569.85	12,893.45
	Gravel Roads	<u>15,329.34</u>	<u>6,566.50</u>	<u>8,762.84</u>
	TOTALS =	\$ 64,532.24	\$ 22,986.10	\$ 41,546.44
		<u> </u>	<u> </u>	<u> </u>
Lynhaven and Studholm Montgomery- Campbell Subdivision	Water	\$ 7,352.37	\$ 1,207.50	\$ 6,144.87
	Domestic Sewer	4,771.25	1,380.00	3,391.25
	Storm Sewer	9,932.74	1,672.50	8,260.24
	Gravel Roads	<u>6,436.37</u>	<u>1,950.00</u>	<u>4,486.37</u>
	TOTALS =	\$ 28,492.73	\$ 6,210.00	\$ 22,282.73
		<u> </u>	<u> </u>	<u> </u>
Carleton Realty Irvine Street	Water	\$ 11,072.51	\$ 3,330.95	\$ 7,841.56
	Domestic Sewer	5,088.34	3,806.80	1,281.54
	Storm Sewer	9,571.30	4,642.65	4,928.65
	Gravel Roads	<u>7,561.61</u>	<u>4,583.50</u>	<u>2,978.11</u>
	TOTALS =	\$ 33,393.76	\$ 16,363.90	\$ 17,029.86
		<u> </u>	<u> </u>	<u> </u>
City of Fredericton York, Massey, Lisgar and Dufferin	Water	\$ 23,335.03	-----	\$ 23,335.03
	Domestic Sewer	13,787.34	-----	13,787.34
	Storm Sewer	31,144.12	-----	31,144.12
	Gravel Roads	<u>21,104.13</u>	<u>-----</u>	<u>21,104.13</u>
	TOTALS =	\$ 89,370.62	-----	\$ 89,370.62
		<u> </u>	<u> </u>	<u> </u>
<u>SUMMARY</u>	Water	\$134,846.07	\$ 30,274.52	\$104,571.55
	Domestic Sewer	76,373.13	34,599.44	41,773.69
	Storm Sewer	171,464.72	42,756.38	128,708.34
	Gravel Roads	<u>111,235.33</u>	<u>43,299.30</u>	<u>67,936.03</u>
	TOTALS =	\$493,919.25	\$150,929.64	\$342,989.61
		<u> </u>	<u> </u>	<u> </u>

	<u>No. of Lots Serviced-1965</u>	<u>No. of Lots Built On</u>	<u>No. of Lots Vacant</u>
A & D Corporation	50	0	50
Parkside Development	10	2	8
Donald Grant	4	4	0
E. C. Atkinson	15	3	12
Hill Bros.	22	20	2
F'ton Housing	48	39	9
Greendale Limited	29	5	24
Montgomery-Campbell	12	0	12
City of Fredericton	29	1	28
Carleton Realty	<u>31</u>	<u>2</u>	<u>29</u>
TOTALS =	<u>249</u>	<u>75</u>	<u>173</u>
	<u>=====</u>	<u>=====</u>	<u>=====</u>

All the Local Improvement Services, excepting Skyline Acres (Fredericton Housing) were constructed under contract.

City forces and machinery constructed the gravel roads with the exception of "A and D" Corporation, which were done by Ashfield Construction Co. Ltd. The cost shown includes holdback payment to Contractors which are payable in 1966.

PUBLIC WORKS

Gross Expenditure	\$ 39,317.39
Credits	<u>1,711.63</u>
Net Expenditure	\$ 37,605.76
1965 Appropriation	<u>26,829.00</u>
DEBIT	\$ 10,776.76

The credits of \$1,711.63 are made up as follows:-

Sale of Maps to Private Parties (City of Fredericton)	\$ 44.10
Damage to Posts	60.00
Modern Construction Co. (Removing tree at Centennial Bldg.)	55.49
Journal Voucher (Machinery)	157.50
Journal Voucher (Mobile phones)	<u>1,394.54</u>
TOTAL	\$ 1,711.63

The labor, hired trucks and city machinery charges under Public Works expenditure was incurred as follows:-

<u>Item</u>	<u>Labor</u>	<u>Hired Trucks</u>	<u>City Machinery</u>
Trees	\$ 12,346.97	\$ 38.00	\$ 3,297.00
Back Drain Diversion	34.16		
Back Drain	38.54		6.00
Survey	331.54		
Surface Sewer	45.36		36.00
Unforseen	2,928.10	212.63	460.00
Casual's Vacation Pay	<u>2,724.31</u>		
TOTAL =	<u>\$ 18,448.98</u>	<u>\$ 250.63</u>	<u>\$ 3,799.00</u>

TREES:-

Expenditure\$ 24,458.62

The above expenditure is made up as follows:-

Labor	\$ 12,346.97
Hired Trucks	38.00
City Machinery	3,297.00
Materials	8,176.65
Mr. Charles Smith (Honorarium for Services rendered)	<u>600.00</u>
TOTAL	<u>\$ 24,458.62</u>

In 1965, 47 trees were removed on the recommendation of the Fredericton Tree Commission. The condemned trees were either in a decadent condition, a menace to public safety or possible breeding places for the Elm Bark Beetle.

Following is a list of trees removed in 1965:-

Elm	33
Hemlock	1
Maple	3
Oak	2
Dutch Elm	<u>8</u>
TOTAL	47
	<u><u>=====</u></u>

The procedure followed at the present time is as follows:-

The trees are condemned by four members of the Fredericton Tree Commission. The list, signed by the four members of the Commission, is then forwarded to this office.

Trees on private property which are condemned as possible breeding places for the Elm Bark Beetle, which carries the fungus of Dutch Elm Disease, are also removed by City Crews. Following is the list of trees which were confirmed as Dutch Elm Disease trees:-

Medley Street (Police Station)	1
126 Miles Street	1
Barker Street, near Nashwaak Bridge ..	1
630 Brunswick Street	1
Phyllis Creek - Woodstock Road	1
Regent Street, Wilkins' Store	1
Lincoln Road - Nelson Adams property..	<u>2</u>
TOTAL	8
	<u><u>=====</u></u>

Following is the number of trees removed from 1961 to 1965 with Dutch Elm Disease:-

1961	2
1962	2
1963	1
1964	14
1965	<u>8</u>
TOTAL	27
	<u><u>=====</u></u>

Permission for the removal of trees on private property, as well as a statement to the effect that no claim for damages will be filed by the property owner are obtained before proceeding with this work.

The system is working very well, with a minimum of delay, after the tree has been condemned.

A considerable number of trees were pruned during the year as well as the usual planting program.

Spraying of Mountain Ash at various locations in the City of Fredericton was carried out in 1965 to keep down the defoliation of these trees due to Beetles.

Trees were planted at the following locations:-

<u>Location</u>	<u>Number of Trees</u>
Canterbury Drive, Cambridge Crescent to Essex Street	23
Essex Street	8
Manchester Court	21
Coventry Crescent, Cambridge Crescent to Manchester Crt..	10
Smythe St., Montgomery St. to south Beechwood Crescent ..	29
Hanwell Road	27
Devon Avenue	5
Beechwood Crescent	<u>43</u>
TOTAL	166
	<u> </u>

Following is a list of trees replaced in
1965:-

<u>Location</u>	<u>Number of Trees</u>
Smythe Street	3
Hawthorne Terrace	2
Coombes Street	2
MacLaren Avenue	5
Hughes Street	1
Spruce Terrace	2
Inglewood Drive	2
Woodbine Court	1
Woodfield Court	2
Hermitage Court	1
Montgomery Street	1
Beaverbrook Street	1
Albert Street	10
Woodstock Road	2
Forest Acres Court	5
Turnbull Court	1
Forest Hill Road	8
Waterloo Row	1
Acacia Court	1
York Street	2
Edinburgh Street	6
Windsor Street	2
Wilmot Court	<u>2</u>
TOTAL	63
	<u> </u>

Under the above heading, the following trees
were purchased in 1965:-

40 Norway Maples @ \$3.85 each	\$ 154.00
40 Crimson King Maples @ \$4.40 each	176.00
40 Silver Maples @ \$4.10 each	164.00
40 Little Leaf Lindens @ \$4.20 each	168.00
40 Emperor Lindens @ \$3.85 each	154.00
4 Norway Maples @ \$4.25 each (8' - 10')	17.00
23 Silver Maples @ \$4.25 each (8' - 10')	97.75
7 Silver Maples (8' - 10') - no charge	----
3 Tilia Cordata @ \$4.25 each (8' - 10')	12.75
2 Tilia Pallida @ \$4.00 each (8' - 10')	<u>8.00</u>
TOTAL	\$ 951.50
	<u> </u>

In 1965 the following machine was purchased
from Canadian Border City Manufacturing Company and
charged to this account:-

1 -Vermeer Model #10 Pow-R-Stumper	
Serial #1333, Engine #38355.77	\$ 4,872.00
Freight Charges	<u>160.00</u>
	\$ 5,032.00
200 Teeth, 20 Pockets and 10 Bolts	<u>568.00</u>
	\$ 5,600.00
Provincial Secretary-Treasurer, S.S. & E. Tax ..	<u>146.16</u>
	\$ 5,746.16
	<u><u> </u></u>

With the addition of this machine 67 stumps were removed at various locations on City Streets at a labor cost of \$277.62.

BACK DRAIN DIVERSION:-

Under this heading the expenditure amounted to \$34.16 and was labor charged for general maintenance (Cleaning Catch Basins, Culvert Entrances and Outfalls).

BACK DRAIN:-

The expenditure under this heading amounted to \$44.54, made up as follows:-

Labor	\$ 38.54
City Machinery	<u>6.00</u>
TOTAL	\$ 44.54
	<u><u> </u></u>

The above expenditure was for general maintenance to Drain.

SURVEYING:-

Under this heading, expenditure amounted to \$1,217.26, made up as follows:-

Labor	\$ 331.54
Materials	<u>885.72</u>
TOTAL	\$1,217.26
	<u><u> </u></u>

The labor charge of \$331.54 was for helpers with the Engineers during the course of their work during 1965, on other than programmed projects.

The material charges of \$885.72 were made up as follows:-

J. C. Risteen Co. (Stakes)	\$ 24.92
Seaboard Surveys (Placing Pins on Lisgar Street and Print of Lisgar Street)	36.26
John C. Trainor (Survey, Dunn's Crossing Road)	509.00
Kelvin Hughes (Rental and repairs to transit and levels)	205.25
E. M. Young (Twine)62
Federal Hardware (Tape refills)	16.37
Horsnell's Machine and Iron Works (repair to tripod) ..	5.00
J. S. Neill & Sons Ltd. (Cord, tape, refills, etc.) ..	79.95
Canadian Pacific Express (Levels from Kelvin Hughes) ..	<u>8.35</u>
TOTAL	\$ 885.72

SURFACE SEWERS:-

Expenditure\$ 213.21

The above expenditure is made up as follows:-

Labor	\$ 45.36
City Machinery	36.00
Materials	<u>131.85</u>
TOTAL	\$ 213.21

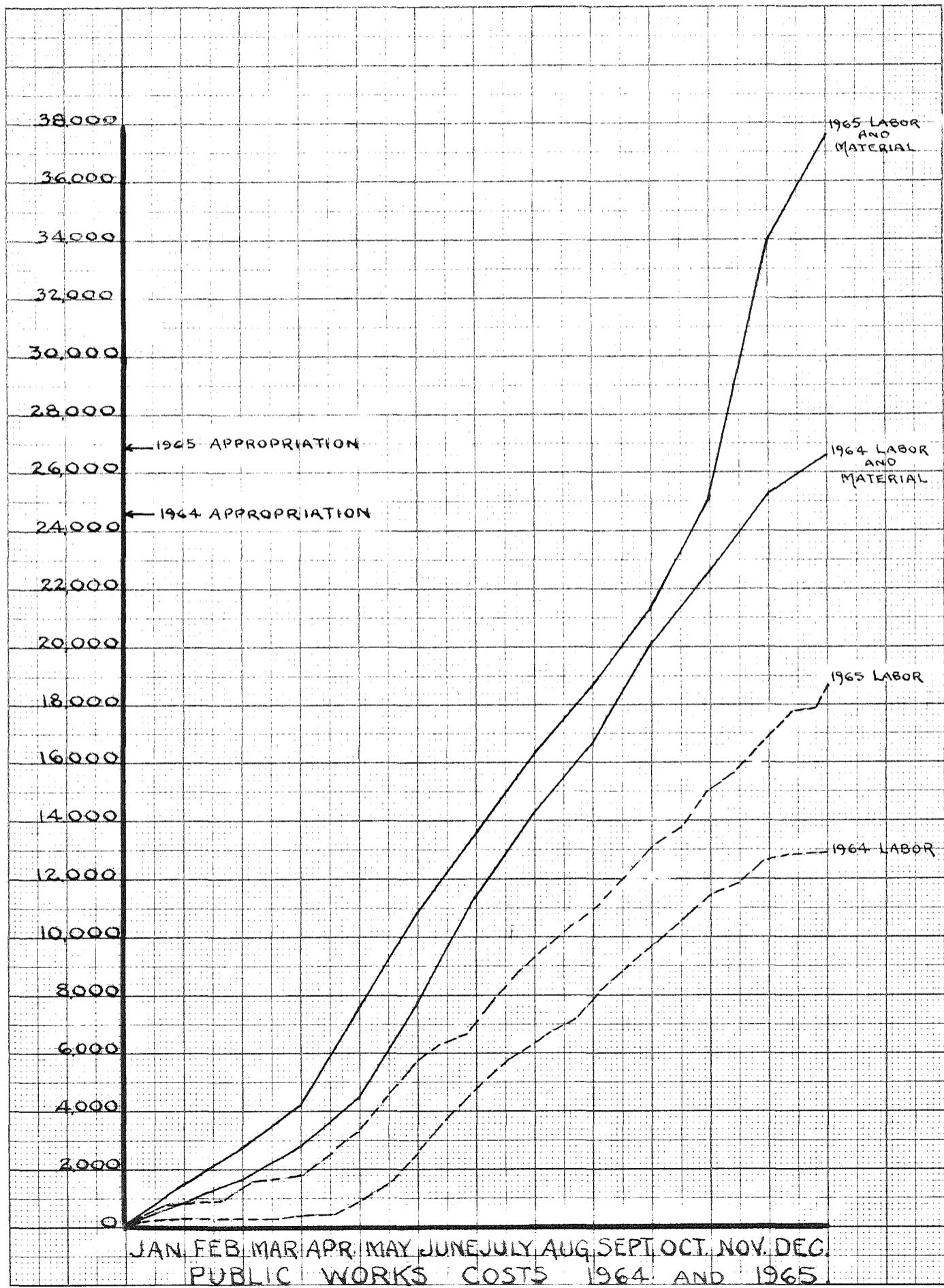
For the above expenditure, the off-take ditch
from the main sewer on Inglewood Drive was extended to
the Valley Railway track and a headwall was constructed.

UNFORSEEN ACCOUNT - LABOR AND HIRED TRUCKS:-

Removal of Christmas Trees from City Streets ...	\$ 499.95
Marking Domestic Sewer outlet, St. John River ..	12.98
Removal of furniture from damaged building on Barker Street	8.26
Benches (Painting and Repairs)	126.05
Clearing Brush	122.54
Greens (Cutting, raking, seeding, topsoil, etc.)	2,167.14
Parade (Rental on City truck with driver)	14.19
Sir James Dunn Fountain	56.73
Spraying mosquito infested areas	43.60
Cleaning Wharf (Regent Street)	3.70
Armistice Stand	24.17
Taking of Inventory for 1965	54.66
Construction of Cabinet for Plans (Engineer's Office)	<u>6.76</u>
TOTAL	\$ 3,140.73

The total expenditure amounted to \$8,913.66,
made up as follows:-

Labor	\$ 2,928.10
Hired Trucks	212.63
City Machinery	460.00
Materials	<u>5,312.93</u>
TOTAL	\$ 8,913.66



CASUALS' VACATION PAY:-

The total amount under this heading was \$2,724.31 for Casual Labor Vacation Pay.

ODELL PARK

Gross Expenditure	\$ 5,242.39
Credits	<u>474.73</u>
Net Expenditure	\$ 4,767.66

The above credits were made up as follows:-

Mr. E. M. Rickard (Sale of 16 cords of hardwood @ \$8.00 per cord)	\$ 128.00
Government of Canada (Winter Works N.B.-61)	<u>346.73</u>
TOTAL	\$ 474.73

The above expenditure is made up as follows:-

E. M. Young (2 Scythes and Stone)	\$ 15.19
Kenny's (Filing 3 Saws)	4.50
Auto Machinery (Grease gun)	5.51
Canadian Petro Fina (45 Gallon drum for fuel tank)....	7.00
N. B. Department of Public Works (Rental on Mower)	151.00
Miles Tire (changing tires)	8.50
Workmen's Compensation (Assessment for 1965)	123.75
Millar Motors (Saw, chain)	226.36
City Heat and Electric (Repairs to Mower)	35.00
J. S. Neill & Sons Ltd. (Miscellaneous items)	222.50
Capital Garden Supply Co. (Fertilizer, etc.)	42.50
N. B. Telephone Co. (Phone)	52.23
Journal Voucher (Machinery)	257.50
Journal Voucher (Gas, Oil and Antifreeze)	36.45
Journal Voucher (Hired trucks)	252.00
Journal Voucher (Labor)	<u>3,802.40</u>
TOTAL	\$ 5,242.39

Included in the above expenditure was the constructing of two ski slopes. This expenditure amounted to \$725.75 and was made up as follows:-

Labor	\$ 332.75
Hired Trucks	240.00
City Machinery	<u>153.00</u>
TOTAL	\$ 725.75

CARLETON PARK

Gross Expenditure	\$ 3,311.88
Credit	<u>85.50</u>
Net Expenditure	\$ 3,226.38

The above credit was for damage to trees, shrubs and benches by juveniles at Carleton Park.

The above expenditure of \$3,311.88 is made up as follows:-

J. S. Neill & Sons Ltd. (Padlock, cord, paint, brushes, etc.)	\$ 22.29
Craig Electric (Adjusting and repairing mower)	10.51
Canadian Pacific Railway (Taxes on property)	440.32
Canadian Pacific Railway (Park rental)	700.00
Federal Hardware (Grass shears)	6.54
Journal Voucher (Gas and Oil)	6.04
Journal Voucher (Machinery)	212.00
Journal Voucher (Hired Trucks)	68.50
Journal Voucher (Labor)	<u>1,845.68</u>
TOTAL	\$ 3,311.88

WILMOT PARK

Expenditure	\$ 3,452.71
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The above expenditure is made up as follows:-

Material used on Lawns and Flower Beds	\$ 25.53
Supplies and Repairs to Lawn Mowers	40.88
Material and Labor charges expended on Caretaker's House	42.12
Purchase of Mowers, Tools, etc.	355.31
Lighting Wilmot Park (14 - 4' Fluorescent Lamps)	840.00
Journal Voucher (Machinery)	147.50
Journal Voucher (Oil)	1.98
Journal Voucher (Hired Trucks)	122.81
Journal Voucher (Labor)	<u>1,845.58</u>
Journal Voucher (Water Rates)	25.00
Journal Voucher (Domestic Sewer)	6.00
TOTAL	\$ 3,452.71

Under this heading was the purchase of the following:-

City Heat and Electric Ltd. - 1-22 Heavy Duty Snapper Mower (Including Tax)	\$ 256.47
J. S. Neill & Sons Ltd. - 1-Model 5170 M.M. Lawn Mower 21" (Including Tax)	<u>91.73</u>
TOTAL	\$ 348.20

CLEARING PARK AREAS

In 1965 a Park Area was underbrushed and cleared of dead wood on Montgomery-Campbell property between King's College Road and Oxford Street. The expenditure amounted to \$859.58 and was made up as follows:-

Labor	\$ 803.88
City Machinery ..	32.00
Materials	<u>23.70</u>
TOTAL	\$ 859.58

RECREATION

Expenditure\$ 2,116.91

The above expenditure does not include all playground expenditure, but only those which appear on department payrolls or costs of materials ordered through the office of the City Engineer. The salaries of the Recreation Director and Playground Supervisors hired for the summer months are not in the above costs, nor does the cost of equipment on the playgrounds appear here.

The above cost is divided as follows:-

J. S. Neill & Sons Ltd. (Pipe and fittings, water line, Skyline Acres)	\$ 5.09
J. S. Neill & Sons Ltd. (Pipe and fittings, water line, Beechwood Crescent)	5.09
W. W. and W. R. Thomas (Sand)	25.20
Journal Voucher (Gas, Oil and Varsol)	166.32
Journal Voucher (Machinery)	398.50
Journal Voucher (Materials)	252.03
Journal Voucher (Hired Trucks)	44.00
Journal Voucher (Labor)	470.68
Journal Voucher (Water used in 1965 Swimming Pools).....	500.00
Journal Voucher (Water used in 1965 Wading Pools and Rinks)	<u>250.00</u>
TOTAL	\$2,116.91

Under this heading, City Crews and City Machinery constructed a playground on Beechwood Crescent and laid a water line to the playgrounds at Beechwood Crescent and Skyline Acres.

The above labor and hired truck charges of \$514.68 are made up as follows:-

Outdoor Rinks	\$ 255.58
Rink in Coliseum	93.76
Playgrounds	<u>165.34</u>
TOTAL	\$ 514.68

CITY HALL

Expenditure \$ 425.92

The above cost is, of course, only the expenditure for City Hall made through the office of the City Engineer, and is not the total expenditure made on City Hall.

The expenditure of \$425.92 is made up as follows:-

Hi-Test Corporation (2-60"Tube Lights, 2 starters)....	\$ 26.48
J. S. Neill & Sons Ltd. (Window soap, mower)	69.42
Horsnell's Machine & Iron Works (piece of steel plating for chimney cleanout)	1.15
Journal Voucher (City Machinery)	8.00
Journal Voucher (Labor)	145.87
Journal Voucher (Water used in 1965)	100.00
Journal Voucher (Sewer rental 1965)	50.00
Journal Voucher (Sprinkler charges 1965)	<u>25.00</u>
TOTAL	\$ 425.92

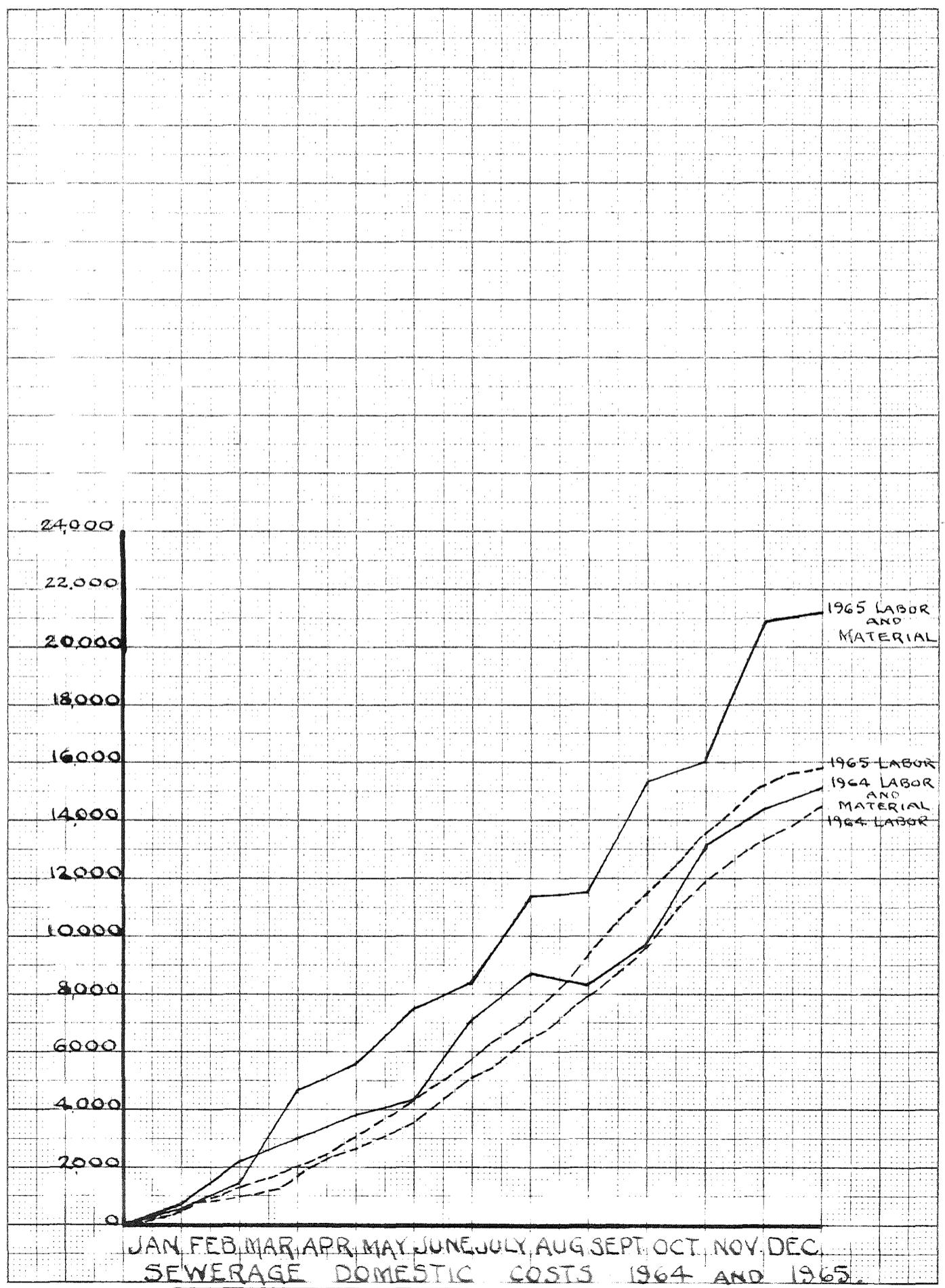
Under this heading 1 - 20" Power Mower was purchased from J. S. Neill & Sons Ltd. at a cost of \$69.48 (including S. S. and E. Tax.)

DOMESTIC SEWER

Machinery Cost	\$ 12,964.00
Material Cost	20,719.14
Labor Cost	15,437.77
Hired Trucks	<u>383.00</u>
Gross Expenditure ..	\$ 49,503.91
Credits	<u>28,271.34</u>
Net Expenditure	\$ 21,232.57

The above credits are made up as follows:-

Material, Labor and Machinery supplied for house connections	\$ 28,099.54
Work done for Private Parties (Cleaning floor drains)	15.80
Journal Voucher (Sewer rental, Fire Department)	100.00
Journal Voucher (Sewer rental, City Hall)	50.00
Journal Voucher (Sewer rental, Wilmot Park)	<u>6.00</u>
TOTAL	\$ 28,271.34



New customers connected to the City Sewer System in 1965 totalled 256.

No Domestic Sewer extensions were made under this heading but do appear under "Capital Account Sewer Domestic."

All Sewer Mains were cleaned and flushed in 1965.

The Fredericton Domestic Sewer System consists of 59.22 miles (12.46 miles in Carleton Ward and 46.76 miles in the City proper) of Sewer Maines and are made up as follows:-

36" Armco Pipe	0.05 miles
36" Concrete Pipe	0.84 miles
30" Concrete Pipe	0.20 miles
24" Terra Cotta Pipe	0.54 miles
18" Terra Cotta Pipe	1.29 miles
15" Terra Cotta Pipe	1.63 miles
12" Terra Cotta Pipe	6.27 miles
10" Terra Cotta Pipe92 miles
8" Terra Cotta Pipe	35.38 miles
12" Transite Pipe	0.53 miles
12" Corrugated Iron Pipe	0.07 miles
10" Transite Pipe	1.24 miles
8" Transite Pipe	9.94 miles
6" Transite Pipe02 miles
6" C. I. Force Main	<u>0.30</u> miles
TOTAL	<u>59.22</u> miles

OLD BURIAL GROUND

The Old Burial Ground between Brunswick Street and George Street was kept in good condition in 1965.

The tombstones that could be repaired and were not too seriously damaged by vandals were repaired. The grass was kept mowed and sodding and seeding was done where necessary.

Gross Expenditure	\$ 1,959.83
Credits	<u>331.00</u>
Net Expenditure	\$ 1,628.83

The above credit was the amounts received from interest on Trust Funds and Bonds.

The expenditures on the Old Burial Ground were as follows:-

City Heat and Electric (Purchase of new mower and repairs to old mower)	\$ 86.89
Maritime Accessories (1 quart paint)	1.65
Department of Lands and Mines (Print)	8.80
J. S. Neill & Sons Ltd. (Lawn edger, enamel, glass and rake)	9.86
Maritime Electric Co. (6 Fluorescent Lamps)	450.00
Journal Voucher (Gas and Oil)	5.06
Journal Voucher (Machinery)	44.00
Journal Voucher (Cement)	5.20
Journal Voucher (Labor)	<u>1,348.37</u>
TOTAL	\$ 1,959.83

1 - 19" Lawn Boy Mower was purchased from City Heat and Electric and used in Old Burial Ground. The cost of the mower was \$61.31 (including tax).

CEMENT WALKS

Expenditure\$ 23,210.17

For the above expenditure, concrete sidewalks were laid at the following locations:-

<u>Location</u>	<u>Lineal Feet</u>
Cambridge Crescent, Leicester Street to Canterbury Drive (north side)	1,500
Coventry Crescent, Manchester Court to Cambridge Crescent (north side)	1,035
Canterbury Drive, Essex Street to near Liverpool Street (north side)	944
Montgomery Street, Windsor Street to College Hill Road (north side)	598
Jones Street, Valley View Street to Fenety Street (west side)	626
King's College Road, end of existing sidewalk to York Street (north side)	988
Noble Street, McEvoy Street to near Irvine Street (east side)	1,638
McEvoy Street, end of existing sidewalk to near MacLaren Avenue (south side)	748
Bailey Drive, Noble Street to Perley Court (south side)	305
York Street, Montgomery St. to Mansfield St. (west side)	595
Mansfield Street (north side)	540
Regent Street, Montgomery Street towards south	<u>920</u>
TOTAL	10,437

The cost of the above sidewalk is apportioned; one-half to the City and one-half to the property owner.

The concrete for the above construction of sidewalks was obtained from Elmtree Concrete Limited @ \$14.95 per cubic yard.

The property owner was charged \$1.10 per lineal foot which does not include Compensation, Pension Fund and Holiday Fund.

SANITATION

Gross Expenditure	\$ 112,606.76
Credit	<u>190.00</u>
Net Expenditure	\$ 112,416.76

The above credit of \$190.00 was rental on City Flusher.

Under the heading "Sanitation" the following projects are included:-

- (1) Garbage Collection
- (2) Sanitary Land Fill
- (3) Street Cleaning

(1) Garbage Collection

The Garbage collection is operated by Mr. H. R. Corey (Fredericton) Ltd. The amount paid for this operation was \$45,972.75, in 1965.

(2) Sanitary Land Fill

Expenditure\$ 18,271.44

The above expenditure is made up as follows:-

Neill's Wholesale (Padlock and Keys)	\$ 5.63
Dailey Gleaner (Printing Garbage Collection Notices)...	47.04
Raymond Savage (Keys)	3.00
S. S. Baird and Sons (648.40 tons gravel)	648.40
Journal Voucher (Machinery)	864.00
Journal Voucher (Hired Trucks)	2,184.00
Journal Voucher (Labor)	2,077.65
Mr. Kenneth L. Barker	<u>12,441.72</u>
TOTAL	\$18,271.44

In 1961 Mr. Kenneth L. Barker was awarded a five-year contract for bulldozing services at the Sanitary Land Fill at a cost of \$12,441.72 per year.

(3) Street Cleaning

Gross Expenditure	\$ 48,362.57
Credit	<u>190.00</u>
Net Expenditure	\$ 48,172.57

The gross expenditure is made up as follows:-

Labor	\$ 29,941.71
Hired Trucks	5,654.00
City Machinery	4,765.00
Materials	<u>8,001.86</u>
TOTAL	<u>\$ 48,362.57</u>

and repair
City Machinery and Material charges amounted to \$13,734.30 and are made up as follows:-

Hand Brooms, Shovels, Rakes, Forks, repairs to carts, etc.	\$ 1,252.75
Main Broom Wire (Canadian Wire Brush Co. & Rosser Sales)	2,761.50
Gutter Broom Wire (Duder Co. Ltd.)	658.17
Labor and Repair charges on 1960 Elgin Sweeper	1,469.98
Labor and Repair charges on Sicard Flusher	1,854.27
Gas and Oil:- 3,301.6 Gallons Gas ...	\$ 825.40
126 Quarts Oil	41.58
5 Quarts Hydraulic Oil.	<u>3.94</u> 870.92
Journal Voucher (Machinery)	4,765.00
Miscellaneous (Waders, Car Allowance, Printing, Rain-Suits, etc.)	<u>101.71</u>
TOTAL	<u>\$13,734.30</u>

The Elgin Sweeper (purchased in 1960) worked 1,157 hours. The actual cost for cleaning streets with this machine was \$8,973.95 and was calculated as follows:-

Labor and Repairs on 1960 Elgin Sweeper	\$ 1,469.98
Main Brooms	2,761.50
Gutter Broom Wire	658.17
Gasoline (1385.50 Gallons)	346.38
Oil (107 Quarts)	35.31
Oil Hydraulic (5 Gallons)	3.94
Water (393,380 Gallons)	147.68
Insurance on 1960 Street Sweeper	51.00
Depreciation on 1960 Street Sweeper	1,110.78
Labor (including Workmen's Compensation, Holiday and Pension Fund (Operator)	<u>2,389.21</u>
TOTAL	<u>\$ 8,973.95</u>

The operating dates for the above machine (Sweeper) were from March 26, 1965 to November 15, 1965.

In 1955 the City of Fredericton purchased a Sicard Master Flusher with a capacity of 2,250 Imperial Gallons. The price of this machine was \$19,435.00 and was paid for in 1956. The operating dates for the above mentioned machine (Flusher) were from March 26, 1965 to October 4, 1965.

The Flusher worked 915 hours. The actual cost for flushing streets with this machine was \$6,462.83 and was computed as follows:-

Labor and Repairs to Flusher	\$ 1,854.27
Gasoline (1916.10 Gallons)	479.02
Oil (19 Quarts)	6.27
Water (4,117,500 Gallons)	764.28
Insurance on Flusher	61.00
Depreciation on Flusher	1,462.50
Labor (including Workmen's Compensation, Holiday and Pension Fund - Operator)	<u>1,835.49</u>
TOTAL	\$ 6,462.83

The following is a list of machinery used in the Sanitation Department together with the repair costs, showing a comparison of costs for 1964 and 1965, including tires and tubes.

<u>Name of Machine</u>	<u>Year Purchased</u>	<u>Repairs 1964</u>	<u>Repairs 1965</u>
Elgin Street Sweeper	1960	\$ 2,131.48	\$ 1,469.98
Sicard Flusher (2250 I.G.)	1965	<u>4,203.35</u>	<u>1,854.27</u>
TOTALS =		<u>\$ 6,334.83</u>	<u>\$ 3,324.25</u>

FIRE DEPARTMENT

Expenditure\$ 11,806.74

The above expenditure is made up as follows:-

W. W. and W. R. Thomas (Sand)	\$ 12.60
Journal Voucher (Sand)	19.80
Journal Voucher (442 Hydrants)	10,608.00
Journal Voucher (2729.3 Gallons Gas)	682.37
Journal Voucher (Machinery)	30.00
Journal Voucher (Water charges 1965)	300.00
Journal Voucher (Sewer Rental 1965)	100.00
Journal Voucher (Labor)	<u>53.97</u>
TOTAL	\$ 11,806.74

ADMINISTRATION OF JUSTICE

Expenditure \$ 3,700.08

J. S. Neill & Sons (Pipe)	\$ 72.32
Horsnell's Machine & Iron Works (anchor and ground rods)	88.58
J. L. Simms (Plywood)	57.43
Journal Voucher (10,410.3 Gallons Gas)	2,602.58
Journal Voucher (222 Quarts Oil)	73.26
Journal Voucher (Cement, Sand, Decals, Varsol)	101.76
Journal Voucher (Machinery)	225.50
Journal Voucher (Hired Trucks)	6.00
Journal Voucher (Labor)	472.65
TOTAL	\$ 3,700.08

City Crews and City Machinery were used in the preliminary installation of Traffic Signal Standards in front of the Victoria Public Hospital, Brunswick Street. The cost amounted to \$886.57 and was made up as follows:-

City Machinery	\$ 199.50
Labor	421.49
Materials	<u>265.58</u>
TOTAL	\$ 886.57

LOYALIST BURIAL GROUND

On the recommendation of the Park Committee of the Fredericton Town Planning Commission, the Loyalist Cemetery on the "Flats", adjacent to the back lots in Elmcroft Place, was improved in 1958.

In 1965 the upkeep expenditure amounted to \$99.93, made up as follows:-

Labor	\$ 84.12
Hired Trucks	7.81
City Machinery	<u>8.00</u>
TOTAL	\$ 99.93

This area continues to be of historic interest and is also a tourist attraction with pedestrian traffic only, from the Little League Ball Field on the "Flats" to the site.

J. T. CLARK MEMORIAL BUILDING

Expenditure\$ 236.20

The above expenditure was for extra help required due to the absence of the caretaker (Holidays and Sickness).

CONTINGENT

Expenditure\$ 1,325.16

The above expenditure is made up as follows:-

Labor	\$ 76.41
Materials.....	<u>1,248.75</u>
TOTAL ...\$	<u>1,325.16</u>

In 1960 Lord Beaverbrook donated a fountain to the City of Fredericton. This fountain was erected in 1961 on the "Green" on Queen Street, approximately 100 feet east of the Robert Burns Monument.

The above labor charge was for removing and placing a protective covering on the fountain during the winter.

The material charge of \$1,248.75 is made up as follows:-

Seaboard Surveys Ltd. - Preparing York Street Plans....\$	204.84
Seaboard Surveys Ltd. - Survey York Street	809.55
Seaboard Surveys Ltd. - Survey, Priestman and Regent Streets	<u>234.36</u>
TOTAL	<u>\$ 1,248.75</u>

MUNICIPAL PARKING LOT

In 1958 the City of Fredericton constructed a Parking Area on the north side of Brunswick Street, between York Street and Carleton Street, just east of J. Clark and Sons property (T. Eaton Company property).

The expenditure for the upkeep of the above Parking Lot for 1965, as shown through the office of the City Engineer was \$500.68 and was made up as follows:-

Labor	\$ 166.68
Hired Trucks	70.00
City Machinery ..	<u>264.00</u>
TOTAL\$	<u>500.68</u>

TOURIST AND INDUSTRY

Expenditure\$ 338.19

The above expenditure was for replacement bulbs, labor and lighting of two signs supplied by the "Tourist and Industrial Committee"; one placed at the junction of Woodstock Road and Golf Club Road, the other on Lincoln Road near the City Limits, together with committee advertising.

This expenditure was made up as follows:-

Richard's Electric (checking lights, Lincoln Road sign).....	\$ 5.36
Stan Cassidy (12-500 Watt Bulbs)	12.36
Dailey Gleaner (Advertising)	168.00
Maritime Electric Co. (Light Bills)	<u>152.47</u>
TOTAL	<u>\$ 338.19</u>

YORK STREET SCHOOL

In 1964 the City of Fredericton purchased the York Street School property situated on York Street, just west of Brunswick Street Baptist Church, for the sum of \$1.00 from the Fredericton School Board. This building in 1965 was offered for sale and was purchased in May by the "Brunswick Street Baptist Church."

The expenditure amounted to \$1,321.10 and was for wages of caretaker for maintenance of the building while in the ownership of the City of Fredericton.

YORK ARENA

The expenditure under this heading amounted to \$6.00 and was for the sale of 12 gallons of Varsol to the York Arena, Carleton Ward.

STREET LIGHTS

The City Street Lighting System on December 31, 1965 consisted of:-

- 1 - A Series Lighting System on the south side of the Saint John River
- 2 - A Multiple Lighting System on the south side of the Saint John River
- 3 - A Multiple Lighting System in the C.N.R. Subway
- 4 - A Series Lighting System in Carleton Ward
- 5 - A Multiple Lighting System in Carleton Ward

SYSTEM #1

The Series Lighting System consists of some 18.48 miles of line and 135 lamps. This system is divided into two circuits, one of which is controlled by a 25 K.W. constant current transformer, the other by a 15 K. W. constant current transformer. One of these transformers along with the main switchboard, are housed in a building, the site of which was purchased from Willett Fruit Company on Carleton Street, south of Needham Street. The second transformer is on a pole situated on Regent Street, between King's College Road and Albert Street and controls the circuit for Maryland Heights.

The two circuits are made up as follows:-

<u>Upper Rear Circuit</u>	<u>Load</u>	<u>Transformer Size</u>
18 - 600 C.P.Lamps @ .350 K.W. demand	6.30	
40 - 250 C.P.Lamps @ .160 K.W. demand	6.40	
16 - Fluorescent Lamps @ .50 K.W. demand	8.00	
	20.70	25 K.W.

Maryland Heights

12 - 600 C.P.Lamps @ .350 K.W. demand	4.20	
49 - 250 C.P.Lamps @ .50 K.W. demand	7.84	
	12.04	15 K.W.

SYSTEM #2 and #5

The Multiple Lighting System as on December 31, 1965 was as follows:-

- 256 - 500 Watt Incandescent Units @ \$60.00 per light per year
- 157 - 200 Watt Incandescent Units @ \$40.00 per light per year
- 101 - 400 Mercury Vapor Units @ \$90.00 per light per year
- 153 - 250 Mercury Vapor Units @ \$60.00 per light per year
- 185 - 4' Fluorescent Units @ \$60.00 per light per year
- 63 - 6' Fluorescent Units @ \$75.00 per light per year

Each of the units, excepting the Fluorescents, consist of either a 500, 400 Mercury, 250 Mercury or 200 Watt 150 Volt Lamp, set in a nouvalex luminar fixture and hung on a bracket attached to the pole. These units are controlled by a control switch, which is energized by the Series Lighting System. The System was installed and is maintained by the Maritime Electric Company, the City paying the Company \$60.00 per year for each 500 Watt Unit; \$40.00 per year for each 200 Watt Unit; \$90.00 per year for each 400 Mercury Vapor Lamp; \$60.00 per year for each 250 Mercury Vapor Lamp; \$60.00 per year for each 4' Fluorescent Lamp and \$75.00 per year for each 6' Fluorescent Lamp.

SYSTEM #3

System #3 consists of 4 Multiple Lights, each of 150 Watt strength, located in the C.N.R. Subway. This system is also controlled by a control switch which is energized by the Series Lighting System.

SYSTEM #4

System #4 is a Series Lighting System which had formerly been installed in the Town of Devon and consists of 8.59 miles of line and 183 lamps. The system originally comprised three circuits, but in 1960 a new circuit was added due to the change from 2500 Lumen Series Lamps on Gibson Street to Fluorescent Series Lamps. The three former circuits are controlled by three 15 K.W. constant current transformers, located on a pole platform on Pine Street, while the new circuit is controlled by a 15 K.W. constant current transformer, situated on a pole on the road leading from MacLaren Avenue to the Carleton Ward School.

The four circuits comprise the following:-

- | | |
|--------------------------------|--|
| <u>Carleton Ward (Up)</u> | - mainly from Hughes St. West |
| <u>Carleton Ward (Central)</u> | - mainly between Hughes Street and Pine Street, including Dobie Subdivision |
| <u>Carleton Ward (Down)</u> | - Pine Street east to Irving Oil Company premises and between Canadian Pacific Railway tracks and Union Street |
| <u>Carleton Ward (Rear)</u> | - including Gibson Street from Devon Avenue to the City line and the easterly extremities of the Dobie Subdivision |

<u>Carleton Ward (Up)</u>	<u>Load</u>	<u>Transformer Size</u>
2 - 600 C. P. Lamps @ .350 demand	.70	
39 - 250 C. P. Lamps @ .160 demand	6.24	
15 - Fluorescent Lamps @ .50 demand	<u>7.50</u>	
	14.44	15 K.W.
<u>Carleton Ward (Central)</u>		
1 - 600 C. P. Lamp @ .350 demand	.35	
46 - 250 C. P. Lamps @ .160 demand	7.36	
12 - Fluorescent Lamps @ .50 demand	<u>6.00</u>	
	13.71	15 K.W.
<u>Carleton Ward (Down)</u>		
13 - 250 C. P. Lamps @ .160 demand	2.08	
14 - Fluorescent Lamps @ .50 demand	<u>7.00</u>	
	9.08	15 K.W.
<u>Carleton Ward (Rear)</u>		
1 - 600 C. P. Lamp @ .350 demand	.35	
19 - 250 C. P. Lamps @ .160 demand	3.04	
21 - Fluorescent Lamps @ .50 demand	<u>10.50</u>	
	13.89	15 K.W.

The power for Systems 1, 3 and 4 is purchased from the Maritime Electric Company at a contract price as agreed upon in a contract between the Maritime Electric Company and the City of Fredericton, made in 1957. This contract also covers the maintenance cost of \$20.00 per year per mile of pole line, which is paid for by the City to the Company.

All materials such as wire, poles, pole fixtures, lamps, lamp fixtures, transformers, etc. are paid for by the City, installed by the Maritime Electric Company under their contract price for maintenance. Any new installations that require an enlargement of circuits must be paid for by the City of Fredericton, including labor and material.

The Street Lighting costs for the year 1965 are as follows:-

Expenditure	\$ 63,526.25
1965 Appropriation.	<u>62,874.90</u>
DEBIT	\$ 651.35

The Street Lighting expenditure of \$63,526.25
is made up as follows:-

105 - F48T12/CW/HO Fluorescent Lamps ...	\$ 208.17	
2 - F72T12/CW/HO Fluorescent Lamps	5.90	
48 - 600 C. P. Series Lamps	46.47	
516 - 250 C. P. Series Lamps	<u>299.40</u>	... \$ 559.94)
Power Costs for Subways and Series lighting (January 1, 1965 to December 28, 1965 - 294,750 K.W.Hours).....	7,480.74	}
Maintenance and Contract of pole line	541.44	Series
Maintenance of Lamp Fixtures, including such articles as lamp standards, lamp brackets, head, sockets, shades, cut- outs, line switches, etc.	190.58	Lighting
Light Bill, Fredericton Highway Bridge	672.80	
Cenotaph, Light Bill	161.44)
Charges on Multiple Fixtures owned and operated by the Maritime Electric Company at \$40.00, \$60.00, \$75.00 and \$90.00 per light per year..	52,621.10	
Maintenance and Labor used in major repairs and new installations	1,286.45	
City Labor	<u>11.76</u>	
TOTAL	<u>\$63,526.25</u>	

Total cost of Series System \$ 9,606.94

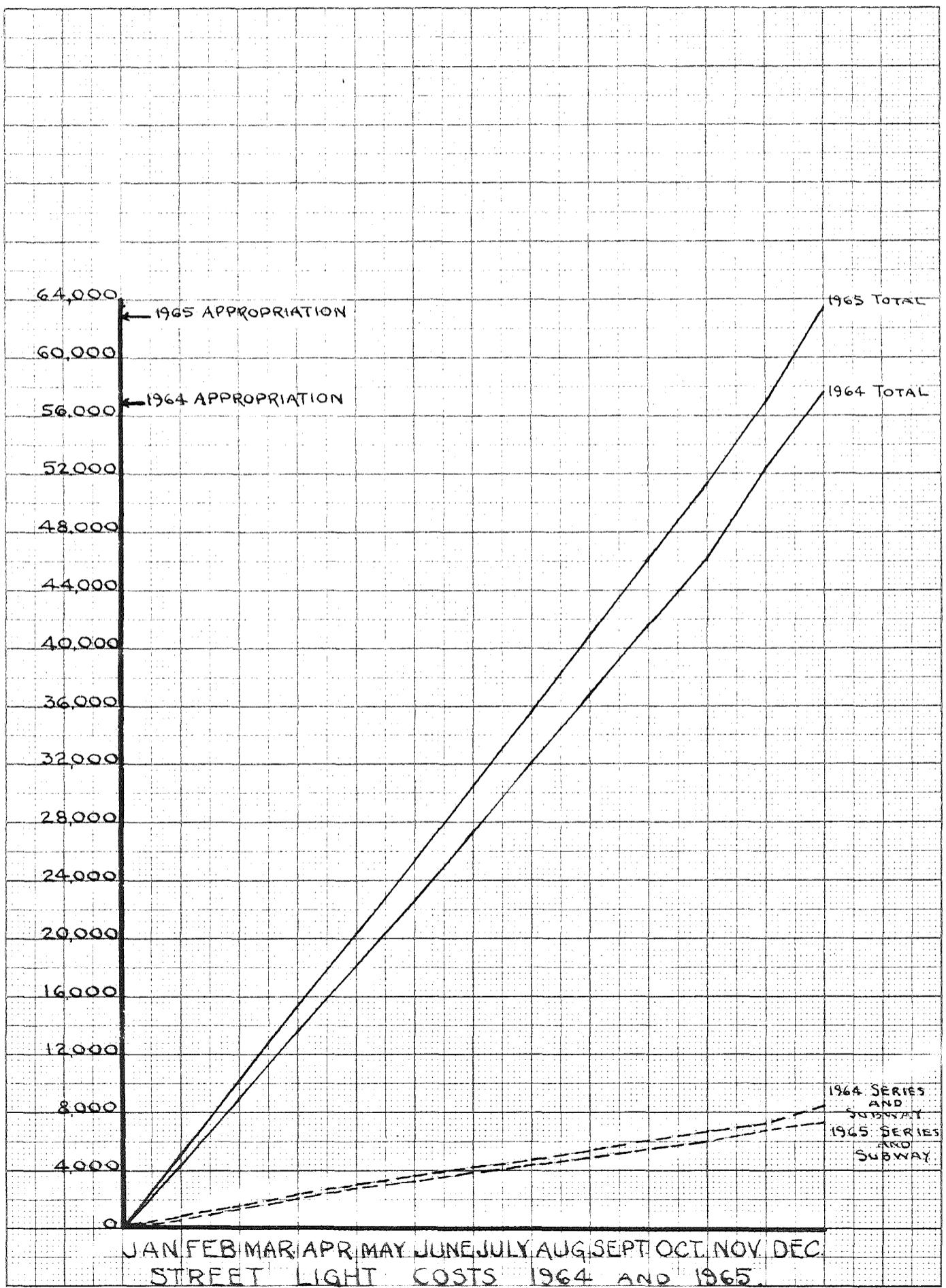
During the year 1965, various changes and extensions were made to the City of Fredericton Street Lighting System. These additions, transfers and removals are shown on a Map in the Office of the City Engineer.

The total per capita charge for Street Lighting for 1965 population, 19,683 as per 1961 census is:-

$$\frac{63,526.25}{19,683} = \$3.23$$

TABLE SHOWING COMPARATIVE YEARLY COST IN
STREET LIGHTING

Year	Total Yearly Cost	Yearly Appropriation
1951	\$ 23,848.42	\$ 20,000.00
1952	25,211.39	25,000.00
1953	25,487.71	27,000.00
1954	23,812.54	27,000.00
1955	28,542.77	27,000.00
1956	31,877.10	27,700.00
1957	33,101.56	29,000.00
1958	36,038.79	33,500.00
1959	39,907.64	37,500.00
1960	44,481.71	44,010.00
1961	46,835.74	46,965.00
1962	46,989.38	47,875.00
1963	52,400.10	51,975.00
1964	57,682.43	56,930.00
1965	63,526.25	62,874.90



WATER

There are two separate water systems in the City of Fredericton.

1. During 1964 the south side of the Saint John River derived its water from three Gravel Wells located in the Wilmet Park; namely, No. 1, No. 3 and No. 4.

Number 2 Well on Saunders Street cannot be used in its present state because of the prohibitive manganese content, which causes "Red" water and stains linens, etc. and is not acceptable as a Municipal Supply.

2. The water supply on the north side of the Saint John River is derived from four wells, three of these wells are outside the City limits and pump directly into the system and a 1,000,000 Gallon Reservoir, completed by Maritime Engineering Limited in 1959. The fourth well is located on Bridge Street. Range Well and Bridge Street Well are on standby service, due to low output and chemical characteristics respectively.

In 1964 a fourth well was put in operation to correct the condition in the Carleton Ward Water Supply as explained in the 1963 annual report; namely, to ensure an ample supply of water for Carleton Ward as well as trying to avoid areas that are known to contain manganese deposits.

Chlorine has been added to the Water in Carleton Ward since the reports from the City Analyst showed objectionable Coliforms in the Water. A liquid solution (HTH) is added at the Killarney Road Well.

The Water costs for the City of Fredericton are divided into two headings:-

"WATER ORDINARY"

and

"WATER PUMPING STATION"

WATER ORDINARY

This account includes all expenditures, other than Capital Expenditure for water and expenditures other than the Main Pumping Station and cost of supply from Wells. It also includes all current Water Expenditure in Carleton Ward.

The expenditure under this heading is made up as follows:-

Gross Expenditure	\$ 109,875.74
Less credits	<u>39,046.29</u>
Net Expenditure	<u>\$ 70,829.45</u>

The credits are made up as follows:-

Work done and Materials sold to private parties when installing a water service over ground other than City Property or when the material is to be used on parts of the system which do not belong to the City \$ 25,510.95

Chippin's Ltd. (Replacing frozen Water Meter)	4.01
Refund (Water Convention)	54.87
Capital Co-operative Ltd. (Sale ¾" Copper Tee)	5.64
Kinghorn & Dickie Ltd. (Sale of Copper Pipe)	11.25
Damage claims (Insurance on damaged Hydrants)	478.68
Bailey Meter Co. (Overcharge on work)	107.09
Town of Woodstock (Sale of copper pipe)	29.70
Palmer McLellan Co. (Repairs to Hydrant)	27.63
W. J. Bearisto Co. Ltd. (Sale of Pipe and Corporation Cocks	22.38
University of New Brunswick (Repairing Water break)	64.05
Diamond Construction Co. (1961) Ltd. (Tapping main)	24.91
Journal Voucher (Sand)	702.23
Journal Voucher (Pipe and Fittings)	194.90
Journal Voucher (Rental on Hydrants, Fire Department) ...	10,608.00
Journal Voucher (Water supplied to City owned buildings, swimming and wading pools)	<u>1,200.00</u>
TOTAL	\$ 39,046.29

The Gross Expenditure is made up as follows:-

City Payroll for Hydrants	\$ 3,429.38
City Payroll for Meters	4,696.37
City Payroll for Water Ordinary	23,565.42
City Payroll for Carleton Ward Pumping Stations	1,033.89
City Payroll for Lincoln Road Pumping Station	646.13
City Payroll for Smythe Street (Booster Station)	408.01
City Payroll for Montgomery Street (Booster Station)	<u>389.02</u>
Payroll	TOTAL PAYROLL
Material and other charges	\$ 34,168.22
	<u>75,707.52</u>
	GROSS EXPENDITURE
	\$ 109,875.74

No water extensions were laid under this heading in 1965. They appear under "Capital Account Water."

Sprinkler systems were installed in 1965 at the following locations:-

A. Gilmore, Barker House, Queen Street
Tingley's Save Easy, 169 Dundonald Street
William R. Quigg, 582 Brunswick Street
City Tire Services Ltd., 1190 Smythe Street
A. Gilmore, Ottawa Valley Lumber Co., Waggoner's Lane

There are at present 72 Sprinkler Systems in the City. The City charge for Water supplied for Sprinkler Systems is \$25.00 per year.

HYDRANTS

There are in the City, 464 hydrants; 356 on the south side of the Saint John River and 108 on the north side.

The credit for rental charge on these hydrants appears under credits to Water Ordinary.

Hydrants were installed at the following locations in 1965:-

<u>Location</u>	<u>Number</u>
Liverpool Street	1
Norfolk Drive	1
Bristol Street	1
Regent Street	2
McNair Drive	3
Limerick Road	3
Massey Street	2
York Street	2
Lisgar Street	1
Oxford Street	1
Eglinton Street	1
Lynhaven Street	1
Irvine Street	2
Prospect Street	1
TOTAL	= 22

METERS

On December 31, 1965 there were 4,277 services on Meter and 425 services on Flat Rate, making a total of 4,702.

The labor cost per meter for installing, reading, repairing, etc. is \$1.10 for 1965.

260 Meters were installed in 1965.

In 1965, 18 discontinued services were dug out and shut off at the main.

All meters are read twice a year and bills are sent out twice a year. 248 meters are read once a month, although they are billed twice a year. These are meters of customers who ordinarily have large consumption and where a stopped meter or meter digit turned over without being noticed would mean a considerable loss of revenue to the City. All meters on Military Buildings are included in the group of monthly meter readings.

Meters in stock December 31, 1965:-

5/8" Meters - repaired and fit for service	26
3/4" Meters - repaired and fit for service	1
1" Meters - repaired and fit for service	1
New 5/8" Meters	41
New 1" Meters	8
New 2" Meters	5
TOTAL	= 82

DISTRIBUTION SYSTEM

New Services installed 1965	258
Old Services relayed in 1965	30
Frozen Services that had to be thawed	17

The Fredericton distribution system consists of 61.60 miles of Water Main, made up as follows:-

18" Main	0.98 miles
14" Main	0.33 miles
12" Main	5.33 miles
10" Main	6.41 miles
8" Main	13.92 miles
6" Main	28.52 miles
4" Main	5.84 miles
3" Main	<u>0.27</u> miles
TOTAL	61.60 miles

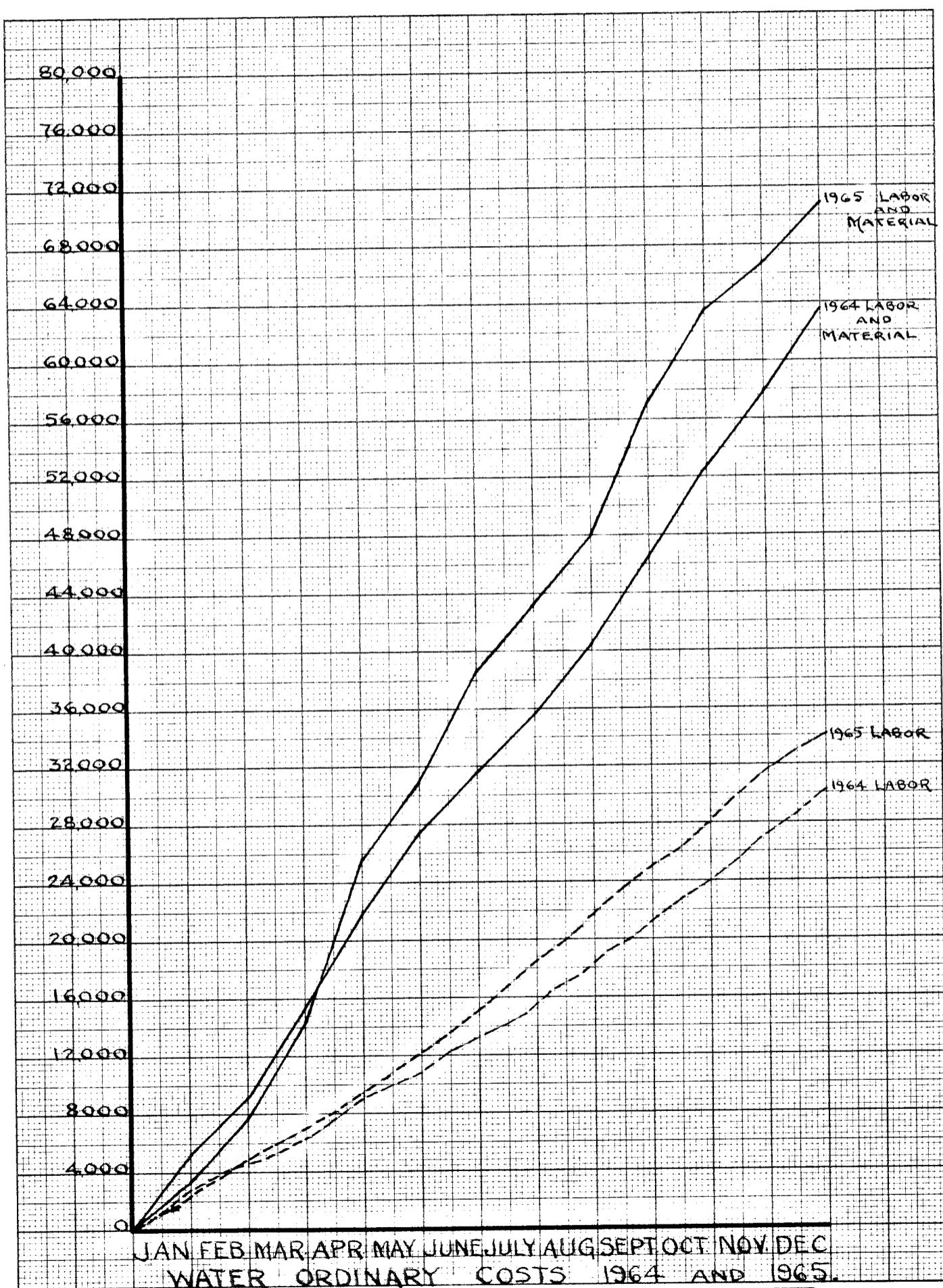
This does not include the water mains installed by the National Defence at the Exhibition Grounds, University of New Brunswick and Teachers' College, Military Depot #7 now Department of Health and Social Welfare, Woodstock Road.

The supply system consists of 0.36 miles of 14" Cast Iron Pipe, extending from the Well site at Wilmot Park to the Pumping Station and 0.10 miles of 15" Steel Pipe extending from the Intake Pier in the Saint John River to the Pumping Station.

Also included in the above expenditure was the purchase of the following meters from Neptune Meters Limited:-

- 1 - 4" Trident Compound, cold water meter, flanged, straight reading, Imperial Gallons with set 4" companion flanges included.
- 10 - 2" Trident style, cold water meters, flanged, straight reading, Imperial Gallons, set 2" oval companion flanges, complete.
- 2 - 1½" Trident style, cold water meters, flanged, straight reading, Imperial Gallons, set 1½" oval companion flanges, complete.
- 30 - 1" Trident, cold water meters, flanged, straight reading, Imperial Gallons complete with couplings included.
- 200 - 5/8" x 3/4" Trident seal frost proof cold water meters, straight reading, Imperial Gallons, complete with couplings.

Following is the list of vehicles used and charged to "Water Ordinary" showing a comparison of repair charges for 1964 and 1965, including tires and tubes.



<u>Name of Vehicle</u>	<u>Year Purchased</u>	<u>Repairs 1964</u>	<u>Repairs 1965</u>
Chevrolet ½ ton	1963	\$ 156.35	\$ 715.69
Chevrolet ½ ton	1964	137.28	347.67
Chevrolet ½ ton	1959	<u>126.10</u>	<u>324.25</u>
TOTALS	=	<u>\$ 419.73</u>	<u>\$ 1,387.61</u>

WATER PUMPING STATION

Expenditure \$ 50,915.76

The above expenditure is divided as follows:-

City Payrolls for salaries of employees at Pumping Station	\$ 22,396.81
Work done by other City employees in and around the Pumping Station	369.94
Material charges	<u>28,149.01</u>
TOTAL	<u>\$ 50,915.76</u>

The material cost of \$28,149.01 is itemized as follows:-

o Item 1 Light and Power supplied by Maritime Electric Company (659,612 K. W. Hours)	\$ 12,907.62	
Item 2 Light and Power supplied by Maritime Electric Company at Wells in the Park	7,556.24	
o Item 3 Heating (5067.20 Gallons furnace oil)	707.75	
o Item 4 Diesel Fuel (2,000 Gallons)	303.80	
o Item 5 Liquid Chlorine (1800 lbs.)	256.50	
o Item 6 Oil - 3 Cases HDX #10	\$ 24.29	
	5 Gals. Teresso "43"	6.02
m Item 7 Maintenance and repairs to buildings, machinery and intake pier	30.31	
o Item 8 Supplies, packing rags, lamps, wrenches, etc. ..	2,497.34	
o Item 9 Stationary, forms, charts, chemicals, ink, etc.	181.08	
o Item 10 Workmen's Compensation	485.56	
o Item 11 E. W. Hagerman (City Analyst Salary)	880.00	
o Journal Voucher (Gas, Oil and Varsol)	1,800.00	
m Journal Voucher (Cement)	9.08	
m Journal Voucher (City Machinery)	1.60	
c Miscellaneous (Telephone, Uniforms, etc.)	24.00	
	<u>508.13</u>	
TOTAL	<u>\$ 28,149.01</u>	

Following is a further explanation of some of the above items:-

Item #3 - Heating

Following is the yearly consumption and costs of heating at the Fredericton Pumping Station Plant for the last nine years:-

<u>Year</u>	<u>Gallons Furnace Oil</u>	<u>Cost</u>
1957 (Heat from Victoria Public Hospital, 749,210 lbs. steam @ \$1.84 per lb.)		\$ 1,378.54
1957	3,507.1	439.98
1958	4,513.4	766.10
1959	6,110.8	1,005.50
1960	6,165.5	1,012.19
1961	4,513.8	709.01
1962	5,079.1	763.10
1963	5,592.8	822.48
1964	5,355.4	762.55
1965	5,067.2	707.75

Item #7 - Maintenance and Repairs

In reference to Item #7 the following is included:-

- 1 - Completed construction on Well House.
- 2 - Painted main floors (downstairs) of Pumping Station.
- 3 - Painted bases on all pumps and alternating unit.
- 4 - Painted floor in chlorinator room.
- 5 - Pump in #3 Well at Wilmot Park pulled out and painted and repaired. This expenditure amounted to \$1,258.86 and was made up as follows:-

Richard's Electric (Electric work at #3 Well)	\$ 8.00
York Structural Steel (Use of Crane)	75.00
Horsnell's Machine & Iron Works (Machine parts for #3 Well)	24.72
Neill's Wholesale (Elbows, nipples)31
International Water Supply Co.	932.95
Journal Voucher (City Machinery)	24.00
Journal Voucher (City Labor)	<u>193.88</u>
TOTAL	<u>\$1,258.86</u>

The Pumping Station Plant at the present time has all the Wells operating automatically on demand. The Saint John River supply operates manually and the supply must pass through the Filter Plant for purification. This supply will only be used in an emergency, that is, when the Wells are not operating due to failure, etc. or when the demand of water is higher than the Wells can produce or during a prolonged electrical interruption, probably longer than 24 hours.

During a 24-hour interruption, the 2,000,000 Imperial Gallon Reservoir will supply the system unless there is a serious break or a fire, when a high consumption of water is required.

COMPARISON OF WATER PUMPED AND COSTS
FOR SOUTH SIDE OF RIVER
FOR LAST NINETEEN YEARS

<u>Year</u>	<u>Imperial Gallons</u>	<u>Gross Expenditure at Pumping Station</u>	<u>Pumping Station cost per 1,000 Gallons</u>	<u>Gross Expenditure</u>
1947	319,243,000	37,123.42	11.6 cents	
1948	322,339,000	31,050.97	9.6 cents	
1949	345,320,000	30,513.39	9.8 cents	
1950	372,412,000	44,548.09	11.9 cents	
1951	367,130,000	35,058.57	9.5 cents	
1952	339,330,000	40,476.10	11.9 cents	
1953	351,310,000	36,179.74	10.3 cents	
1954	388,540,000	40,403.81	10.4 cents	
1955	376,591,000	48,063.07	12.7 cents	
1956	448,096,000 (13 months)	41,351.18	9.2 cents	
1957	469,185,000	42,465.50	9.0 cents	
1958	454,765,000	42,888.56	9.4 cents	
1959	487,704,000	47,923.19	9.8 cents	
1960	520,081,000	50,280.09	9.6 cents	
1961	510,250,000	45,081.88	8.8 cents	
1962	499,880,000	48,298.53	9.7 cents	
1963	519,168,000	48,441.10	9.3 cents	
1964	544,650,000	52,431.23	9.6 cents	
1965	605,170,000	50,915.76	8.4 cents	

The column in the preceding comparison, showing Imperial Gallons pumped, does not include water used from Wells in Carleton Ward.

The total water consumption for Wells in Carleton Ward for 1965 was 140,960,000 Gallons.

The total amount of Water pumped from January 1, 1965 to December 31, 1965 therefore, for the whole City, is 746,130,000 Imperial Gallons.

The total net water expenditure (operating) for the City from January 1, 1965 to December 31, 1965 is \$121,745.21.

Therefore the net cost to pump and deliver to the customer, 1,000 Imperial Gallons of Water from January 1, 1965 to December 31, 1965 is $\frac{121,745}{746,130} = 16.3$ cents.

All the preceding costs shown under "Water Pumping Station" and "Water Ordinary" do not include the cost of billing and collecting water bills or any other overhead charge included in the City Government cost, nor do they include bond payments or sinking fund charges.

Total expenditure during the year including excess debt charges of \$73,436.87 over net expenditure was 33 cents per thousand gallons of water delivered.

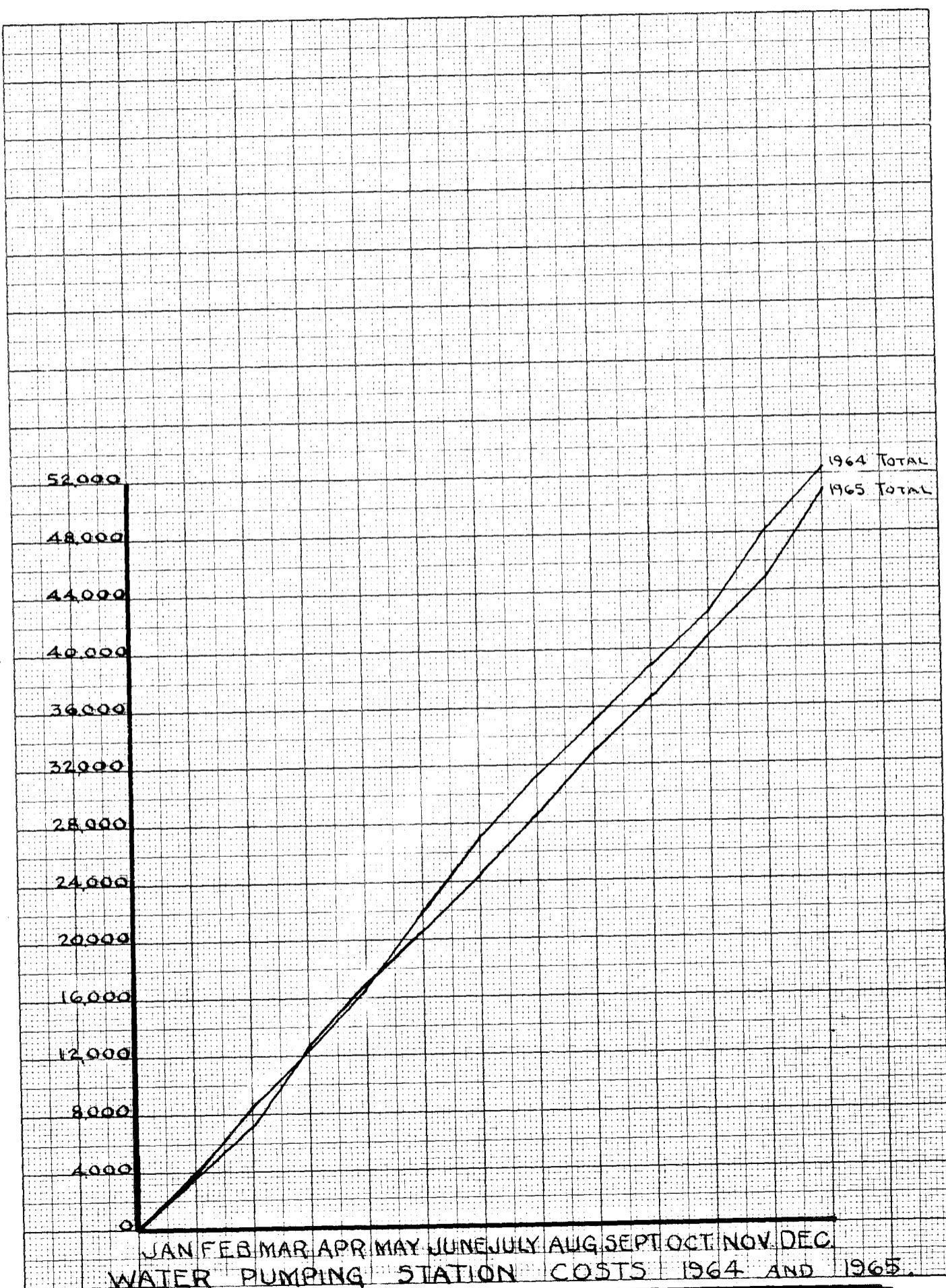
The Water Pumping Station was under the
Supervision of Plant Superintendent, Mr. George Clark.

Accompanying this report is the report of
Mr. E. W. Hagerman, City Analyst, on the Fredericton
Water Supply from January 1, 1965 to December 31, 1965.

Respectfully submitted,

W.L. Barrett

CITY ENGINEER.



FREDERICTON WATER SUPPLY

Year 1965

January 1st to December 31st

The Fredericton water supply has not changed during 1965. The quality, both physical and bacteriological is the best. The water is from the same seven wells used last year.

Very few complaints have been received re objectional tastes. One dead end in the Industrial Park gave some trouble until flushed and chlorinated.

Dead ends will always give poor water because the flow is so low. This lets the water make contact with the pipe walls for so long that solution of even sparingly soluble compounds is possible. Moulds and other organisms that can survive chlorine treatment, have time to multiply and oxygen is depleted.

The chlorine residual is 0.1 ppm in the water entering the mains. This residual gradually dissipates as the distance from the chlorinating point (the Pumping Station) increases. If the pipe system continues to grow, it will eventually become necessary to build a secondary chlorinating station so as to maintain a residual in the distant ends.

On the north side of the river, chlorine is added at the Killarney and Bridge Street Wells, when they are operating. The amount is approximately 0.1 ppm. The Range and Highland Avenue Wells are isolated and water from them is practically sterile, so no chlorine is added.

Examination of the list of sampling stations shows that more samples were taken at some places than at others. This is because a particular station is nearer the end of the system or close to the entrance of a main from one of the Wells.

The few positive tests that do appear are in the Carleton Ward supply and further study of the sampling results points to the Killarney Well as a remote but possible source of these positives. Chlorine is added constantly to this water as it is pumped, so it is difficult to blame this Well for the occasional positive result showing in the western end of the system. However, the number of positives are very few and well within the limits allowed for an "A" class water.

Tests were made on 62 samples, for the presence of the Coliform group of bacteria.

Following is a condensation of U.S.A. Treasury Standards specifications for potable water as applicable to Fredericton Water.

- 1 - A sample is divided into 5 portions.
- 2 - Each portion contains 10cc. of water to be tested.

3 - The Confirmed test shall be used to show the presence of the Coliform group. The primary media is lactose broth and the confirmatory media is 2% Brilliant Green Bile.

APPLICATION OF TEST

- 1 - Of all the 10 cc. portions examined per month not more than 10% shall show positive.
- 2 - When less than 20 samples per month are examined, one sample may have 3 positive portions.
- 3 - The procedure given using a standard sample of 5 portions provides for an estimation of the Most Probable Number (MPN) of coliform bacteria per 100 cc. of sample as per table below.

<u>Negative</u>	<u>Positive</u>	<u>When 5 - 10 cc. portions are tested</u>
5	0	Less than 2.2 per 100 is the MPN
4	1	Less than 2.2 per 100 is the MPN
3	2	Less than 5.1 per 100 is the MPN
2	3	Less than 9.2 per 100 is the MPN
1	4	Less than 16 per 100 is the MPN
0	5	More than 16 per 100 is the MPN

There are only 2 samples from the year's tests that show positive. One of these was raw water from Killarney Well before Chlorination and so cannot be considered when evaluating the water delivered to the customer.

The positive sample from the mains gave one positive portion in twenty-five portions tested. i.e. (5 samples from Carleton Ward for March of 5 portions each is 25 total portions tested). One in twenty-five is four percent and clause (1) above, allows 10%. This sample with 1 positive portion is well within the limits of clause number (2) which allows any single sample to show 3 positive portions.

If clause (3) is applied, this sample has a MPN of 2.2 MPN and is not of much significance unless applied to a number of samples averaged and from the same sampling point.

February 8, 1966.

(Signed) E. W. HAGEMAN
CITY ANALYST.

Following is a list of sampling points used in
1965:-

<u>DATE OF SAMPLE</u>	<u>ORIGIN OF SAMPLE</u>	<u>POSITIVE RESULTS ONLY WILL BE NOTED HERE ALL OTHERS ARE O. K.</u>	
January 4	Fredericton Pony Club		
January 8	MacLaren Avenue Fire Station		
January 16	99 Smith St., Fredericton		
January 23	Texaco Bulk Plant, Wilsey Road		
January 29	62 Alexandra Street		
February 11	U.N.B. Engineering Building		
February 17	MacLaren Avenue, Fire Station		
February 24	R. A. Malloy		
March 1	White Rose Service, Wilsey Road		
March 11	99 Smith St., Carleton Ward	1 Pos.	4 Neg.
March 13	99 Smith St., Carleton Ward	O.K.	
March 15	99 Smith St., Carleton Ward	O.K.	
March 18	99 Smith St., Carleton Ward	O.K.	
March 23	MacLaren Avenue, Fire Station		
March 27	U.N.B. Engineering Building		
April 1	99 Smith St., Carleton Ward		
April 8	U.N.B. Engineering Building		
April 15	Union Motors, Union Street		
April 22	Greer & Lawson, 377 Gibson St.		
April 27	Beaverbrook Hotel		
May 6	Wandlyn Motel, Smythe Street		
May 10	St. Thomas College		
May 16	127 Charlotte Street		
May 24	21 Golf Club Road		
May 27	99 Smith St., Carleton Ward		
June 3	21 Golf Club Road		
June 12	York Structural Steel, Wilsey Road		
June 17	End of Construction, Canterbury Dr.		
June 25	Highland Avenue Well		
July 2	Rural Cemetery Extension		
July 10	MacLaren Avenue, Fire Station		
July 19	Union Motors, 479 Union Street		
July 22	Boat Club Service Station, Lincoln Road		
July 26	Associate Designers and Inspectors, Regent St.		
August 3	U.N.B. Engineering Building		
August 11	Killarney Well (before Chlorination)	3 Pos.	2 Neg.
August 13	Union Motors, 479 Union Street		
August 14	Killafney Well (before Chlorination)	O.K.	
August 15	Killarney Well (before Chlorination)	O.K.	
August 18	MacLaren Avenue, Fire Station		
August 27	Union Motors, 479 Union Street		
August 30	99 Smith St., Carleton Ward		

POSITIVE RESULTS ONLY
WILL BE NOTED HERE
ALL OTHERS ARE O. K.

DATE OF
SAMPLE

ORIGIN OF SAMPLE

September 9 Union Motors, 479 Union Street
September 15 234 Canterbury Drive
September 24 99 Smith St., Carleton Ward
September 27 MacLaren Avenue, Fire Station

October 1 127 Charlotte Street
October 7 Greer & Lawson, 377 Gibson St.
October 13 234 Canterbury Drive
October 19 U.N.B. Engineering Building
October 26 357 George Street
October 29 York Structural Steel, Wilsey Rd.

November 6 Wandlyn Motel, Smythe Street
November 9 Wandlyn Motel, Smythe Street
November 14 277 Gibson Street
November 20 Union Motors, 479 Union St.
November 26 MacLaren Avenue, Fire Station

December 3 U.N.B. Engineering Building
December 8 #3 Well Wilmot Park (after overhaul)
December 11 99 Smith St., Carleton Ward
December 18 99 Smith St., Carleton Ward
December 23 U.N.B. Engineering Building

DOMESTIC SEWER SERVICES INSTALLED 1965

1.	Schurmans Ltd.	59 Pembroke Crescent
2.	George Dayton	567-569 Waterloo Row
3.	Glenna Phillips	98 Perley Court
4.	Glen Turnbull	15 Kennedy Court
5.	Eldon Dunphy	722 Irvine Street
6.	Maurice Sacobie	Lot # 4, Block # 5, Reserve
7.	Paul V. Paul	Lot # 1, Block # 5, Reserve
8.	Rita Daye	263 St. Marys Street
9.	Rabbi Spiro	463 Waterloo Row
10.	Hill Bros. Ltd.	313 Massey Street
11.	Hill Bros. Ltd.	257 Bessborough Street
12.	Hill Bros. Ltd.	175 Bessborough Street
13.	Wayne Hill	741 Gregg Court
14.	E. R. Dunphy Ltd.	756 Gregg Court
15.	Schurmans Ltd.	345 Oxford Street
16.	Fredericton Housing Ltd.	190 Leeds Drive
17.	Suburban Construction Co.	29 Simcoe Court
18.	G. MacNabb	31 Perley Court
19.	Fredericton Housing Ltd.	210 Leeds Drive
20.	Fredericton Housing Ltd.	218 Leeds Drive
21.	Fredericton Housing Ltd.	226 Leeds Drive
22.	Wayne Hill	115 Beechwood Crescent
23.	K. G. Howlett	307 Kings College Road
24.	J. A. Williamson	Exhibition Grounds
25.	Parsons Construction Co.	212 Queen Street
26.	Suburban Construction Co.	23 Simcoe Court
27.	Maritime Engineering Ltd.	181 Westmorland Street
28.	Fredericton Housing Ltd.	839 Aberdeen Street
29.	Marr Housing Ltd.	49 Pembroke Crescent
30.	Florence T. Snodgrass	224 Edinburgh Street
31.	Robert Grant	24 Bailey Drive
32.	Gordon Christensen	27 Kennedy Court
33.	Leo Brewer	220 Noble Street
34.	Cummings Housing	86-90 Forest Hill Road
35.	Fredericton Housing Ltd	25 Southampton Drive
36.	Archie Colpitts	418 Pederson Crescent
37.	Edward Rogers	44 Birch Court
38.	Brice A? Dunphy	309 Montgomery Street
39.	Hill Bros. Ltd.	916 Smythe Street
40.	Milford A. Kitchen	1040 Smythe Street
41.	Hill Bros. Ltd.	192 Bessborough Street
42.	Hill Bros. Ltd.	221 Bessborough Street
43.	Charles J. F. White	26 Wilsey Road
44.	Fredericton Housing Ltd.	238 Leedr Drive
45.	Fredericton Housing Ltd.	75 Liverpool Street
46.	Fredericton Housing Ltd.	85 Liverpool Street
47.	Fredericton Housing Ltd.	65 Liverpool Street
48.	Thomas McCarty	329 St. Marys Street
49.	City Tire Services Ltd.	1190 Smythe Street
50.	Carl S. Hay	965 College Hill Road
51.	Fredericton Housing Ltd.	24 Folkestone Court
52.	Fredericton Housing Ltd	19 Folkestone Court
53.	Fredericton Housing Ltd.	45 Liverpool Street
54.	Fredericton Housing Ltd.	267 Folkestone Court
55.	Fredericton Housing Ltd.	39 Folkestone Court
56.	Fredericton Housing Ltd.	107 Rochester Street
57.	Fredericton Housing Ltd.	34 Folkestone Court
58.	Suburban Construction Co.	22 Simcoe Court
59.	Alfred Hamill	354 Oxford Street
60.	Suburban Construction Co.	38 Simcoe Court
61.	Vaughan C. McManus	210 Noble Street
62.	Harry C. Corey	1059 Regent Street
63.	Robert L. Firlotte	999 Regent Street
64.	Francis E. Atkinson	951 Regent Street
65.	W. J. oedemans	1013 Regent Street

66. Donald Noble
67. H. Orville Scott
68. Mrs. Doris M. Wood
69. Mrs. Doris M. Wood
70. Mrs. Doris M. Wood
71. James H. Burne
72. Fredericton Housing Ltd.
73. Fredericton Housing Ltd.
74. Fredericton Housing Ltd.
75. Fredericton Housing Ltd.
76. Thomas Bourque
77. Donald Grant
78. Hazen Thomas
79. P. A. Byrne
80. Hill Bros. Ltd.
81. Hill Bros. Ltd.
82. Hill Bros. Ltd
83. Eldon Dunphy
84. Eldon Dunphy
85. Eldon Dunphy
86. Archie Colpitts
87. Fredericton Housing Ltd.
88. Fredericton Housing Ltd.
89. Dr. Brooks
90. Farris Housing
91. Charles Llewellyn
92. Charles Llewellyn
93. Fredericton Housing Ltd.
94. Fredericton Housing Ltd.
95. Villers Construction Co.
96. Fredericton Housing Ltd.
97. Fredericton Housing Ltd.
98. Fredericton Housing Ltd.
99. Suburban Construction Co.
100. W. W. Colpitts
101. Wayne Hill
102. Fredericton Housing Ltd.
103. MacDonald Enterprises
104. Carl S. Hay
105. Kinghorn & Dickie Ltd.
106. Mary I. Bailey
107. Donald E. Wilson
108. Wayne Hill
109. Gilbert Williams
110. Fredericton Housing Ltd.
111. Arthur J. Arsenault
112. Fredericton Housing Ltd.
113. Fredericton Housing Ltd.
114. Glenwood Kitchen
115. Malcolm Cummings
116. Donald Hill
117. Mrs. Doris M. Wood
118. Fredericton Housing Ltd.
119. Hill Bros. Ltd.
120. Eureka Holdings Ltd.
121. Ernest MacLean
122. Ernest McLean
123. Fredericton Housing Ltd.
124. Suburban Construction Co.
125. Fredericton Housing Ltd.
126. E. R. Dunphy Ltd.
127. Fredericton Housing Ltd.
128. Eldon Dunphy
129. F. L. Boulter
130. Kenneth L. Howlett

787 Jones Street
1072 Regent Street
1084 Regent Street
1104 Regent Street
1110 Regent Street
807 Jones Street
54 Folkestone Court
29 Folkestone Court
44 Folkestone Court
759 Montgomery Street
579 Squires Street
585 Squires Street
36 Bailey Drive
123 Titus Street
45 Lorne Street
29 Lorne Street
195 Bessborough Street
10 Colter Court
875 Windsor Street
255 Kings College Road
450 Mansfield Street
5 Heather Terrace
2 Heather Terrace
7 Heather Terrace
159 Lynhaven Street
1222 Regent Street
1165 Regent Street
227 Leeds Drive
247 Leeds Drive
711 Irvine Street
42 Southampton Drive
95 Liverpool Street
80 Liverpool Street
32 Simcoe Court
586 Squires Street
580 Squires Street
55 Liverpool Street
20 Colter Court
Colinmieu, Exhibition Grounds
105 Waggoners Lane
260 Dunn Road
748 Gregg Court
178 Massey Street
476 Pederson Crescent
140 Liverpool Street
1129 Regent Street
313 Liverpool Street
215 Liverpool Street
151 Bessborough Street
193 Massey Street
173 Massey Street
1177 Regent Street
165 Liverpool Street
222 Massey Street
1087 Regent Street
511 Lisgar Street
499 Lisgar Street
160 Liverpool Street
48 Simcoe Court
180 Liverpool Street
47 Simcoe Court
135 Liverpool Street
66 Bailey Drive
21 Kennedy Court
24 Kennedy Court

131. Marr Housing
132. St. Marys Parish Church
133. Fredericton Housing Ltd.
134. Fredericton Housing Ltd.
135. Marr Housing
136. Hill Bros. Ltd.
137. Hill Bros. Ltd.
138. Donald Hill
139. Donald Hill
140. Fredericton Housing Ltd.
141. Wayne Hill
142. Fredericton Housing Ltd.
143. Wayne Hill
144. Fredericton Housing Ltd.
145. Hill Bros. Ltd.
146. Fredericton Housing Ltd.
147. Fredericton Housing Ltd.
148. Wendell Farris
149. Fredericton Housing Ltd.
150. Hill Bros. Ltd.
151. Hill Bros. Ltd.
152. Hill Bros. Ltd.
153. Hill Bros. Ltd.
154. Fredericton Housing Ltd.
155. Suburban Construction Co.
156. Archie Colpitts
157. Suburban Construction Co.
158. R. E. Campbell
159. Reginald Wheaton
160. Isabella Peterson
161. Ernest McLean
162. Ernest McLean
163. Ernest McLean
164. Ernest McLean
165. Ernest McLean
166. Ernest McLean
167. Ernest McLean
168. Carl S. Hay
169. Department of Veterans Affairs
170. Doris G. Millett
171. Gordon Polches
172. Wendell Farris
173. J. W. Bird & Co.
174. Mrs. R. F. Morris
175. Howard Tims
176. Construction Services Ltd.
177. Villers Construction Co.
178. Fredericton Housing Ltd.
179. Leo Brewer
180. Villers Construction Co.
181. L. N. Darrah
182. Glenwood MacKay
183. Tingley's Save Easy
184. Ben Medjuck
185. Malcolm Cummings
186. Fredericton Housing Ltd.
187. Hill Bros. Ltd.
188. Donald E. Wilson
189. Hill Bros. Ltd.
190. Suburban Construction Co.
191. Suburban Construction Co.
192. Archie Colpitts
193. Suburban Construction Co.
194. MacDonald Building Supplies
195. Suburban Construction Co.

321 Montgomery Street
770 McEvoy Street
150 Liverpool Street
155 Liverpool Street
64 Pembroke Crescent
255 Massey Street
188 Massey Street
183 Massey Street
168 Massey Street
170 Liverpool Street
202 Massey Street
145 Liverpool Street
205 Massey Street
32 Southampton Drive
215 Massey Street
22 Southampton Drive
105 Liverpool Street
212 Massey Street
8 Southampton Drive
232 Massey Street
225 Massey Street
234 Bessborough Street
254 Bessborough Street
31 Norfolk Drive
41 Simcoe Court
466 Mansfield Street
25 Simcoe Court
105 Prospect Street
46 Bailey Drive
94 Wilsey Road
484 Lisgar Street
487 Lisgar Street
496 Lisgar Street
508 Lisgar Street
536 Dufferin Street
550 Dufferin Street
564 Dufferin Street
1155 Regent Street
1141 Regent Street
1149 Regent Street
Lot # 3, Block # 4, Reserve
295 Montgomery Street
Industrial Area
425 Waterloo Row
397 Waterloo Row
16 Kennedy Court
721-725 Irvine Street
237 Noble Street
240 Noble Street
709-713 Irvine Street
810 Irvine Street
830 Irvine Street
169 Dundonald Street
147 Lynhaven Street
96-100 Forest Hill Road
5 Forest Acres Court
151 Beechwood Crescent
129 St. Marys Street
115 Bessborough Street
333 Oxford Street
319 Oxford Street
480 Mansfield Street
25 Harewood Crescent
244 Kings College Road
50 Harewood Court

196. Atlas Construction Co.
197. T. C. Gough
198. Hill Bros. Ltd.
199. Cummings Housing
200. Fredericton Housing Ltd.
201. Freeericton Housing Ltd.
202. Fredericton Housing Ltd.
203. S. C. R. Construction Co.
204. Cummings Housing
205. Hill Bros. Ltd.
206. Wayne Hill
207. Walton K. Tibert Jr.
208. Fredericton Housing Ltd.
209. Eldon Dunphy
210. Fredericton Housing Ltd.
211. Fredericton Housing Ltd.
212. Fredericton Housing Ltd.
213. Fredericton Housing Ltd.
214. Wendell Farris
215. Gilbert Williams
216. Fredericton Housing Ltd.
217. Fredericton Housing Ltd.
218. Fredericton Housing Ltd.
219. Fredericton Housing Ltd.
220. Construction Services Ltd.
221. Fredericton Housing Ltd.
222. Suburban Construction Co.
223. Suburban Construction Co.
224. Marr Housing
225. Fredericton Housing Ltd.
226. Fredericton Housing Ltd.
227. Noreen Valenta
228. Wayne Hill
229. Fredericton Housing Ltd.
230. Fredericton Housing Ltd.
231. Fredericton Housing Ltd.
232. Fredericton Housing Ltd.
233. Fredericton Housing Ltd.
234. Fredericton Housing Ltd.
235. Fredericton Housing Ltd.
236. Donald Hill
237. Perley M. Estey
238. Fredericton Housing Ltd.
239. Fredericton Housing Ltd.
240. Fredericton Housing Ltd.
241. Fredericton Housing Ltd.
242. Fredericton Housing Ltd.
243. Fredericton Housing Ltd.
244. W. Starr
245. Fredericton Housing Ltd.
246. Eldon Dunphy
247. Archie Colpitts
248. Malcolm Cummings
249. John McKinnon
250. Eldon Dunphy
251. Gordon Christensen
252. Wayne Hill
253. L. W. Howlett
254. Leo Brewer
255. Eastern Plumbing & Heating Ltd.
256. Jardine Renovations Ltd.

1050 College Hill Road
776 York Street
944 Smythe Street
173 Montgomery Street
190 Liverpool Street
21 Norfolk Drive
41 Norfolk Drive
115 Waggoners Lane
235 Massey Street
245 Massey Street
242 Massey Street
251 Bessborough Street
66 Norfolk Drive
755 Gregg Court
96 Norfolk Drive
8 Bristol Street
126 Norfolk Drive
106 Norfolk Drive
324 Kings College Road
484 Pederson Crescent
Bristol Street (Lot # 305)
76 Norfolk Drive
206 Norfolk Drive
215 Norfolk Drive
355 Oxford Street
216 Norfolk Drive
274 Oxford Street
286 Oxford Street
161 Montgomery Street
41 Bristol Street
51 Bristol Street
872 Windsor Street
156 Massey Street
29 Bristol Street
19 Bristol Street
51 Norfolk Drive
7 Bristol Street
156 Norfolk Drive
146 Norfolk Drive
136 Norfolk Drive
265 Massey Street
131 Lynhaven Street
85 Norfolk Drive
186 Norfolk Drive
48 Bristol Street
176 Norfolk Drive
175 Liverpool Street
185 Liverpool Street
299 Oxford Street
86 Norfolk Drive
1011 York Street
488 Mansfield Street
185 Montgomery Street
749 Prince Street
759 Irvine Street
747 Irvine Street
775 Irvine Street
Bailey Drive (Lot # 110)
247 Noble Street
York Street
1105 York Street

WATER SERVICES INSTALLED 1965.

1.	Schurmans Ltd	59 Pembroke Crescent	$\frac{3}{4}$ " Copper
2.	George Dayton	567-569 Waterloo Row	$\frac{1}{4}$ " Copper
3.	Glenna Phillips	29 Bailey Drive	$\frac{5}{8}$ " Copper
4.	Glen Turnbull	15 Kennedy Court	$\frac{5}{8}$ " Copper
5.	Eldon Dunphy	722 Irvine Street	$\frac{3}{4}$ " Copper
6.	Maurice Sacobie	Lot # 4, Block # 5, Reserve	$\frac{5}{8}$ " copper
7.	Paul V. Paul	Lot # 1, Block # 5, Reserve	$\frac{5}{8}$ " Copper
8.	Rita Daye	263 St. Marys Street	$\frac{3}{4}$ " Copper
9.	Victory Meat Packers	334 King Street	2-1" Copper
10.	Rabbi Spiro	463 Waterloo Row	$\frac{3}{4}$ " Copper
11.	Hill Bros. Ltd.	131 Massey Street	$\frac{5}{8}$ " Copper
12.	Hill Bros. Ltd.	257 Bessborough Street	$\frac{5}{8}$ " Copper
13.	Hill Bros. Ltd.	175 Bessborough Street	$\frac{5}{8}$ " Copper
14.	Wayne Hill	741 Gregg Court	$\frac{5}{8}$ " Copper
15.	E. R. Dunphy Ltd.	756 Gregg Court	$\frac{3}{4}$ " Copper
16.	Schurmans Ltd.	345 Oxford Street	$\frac{3}{4}$ " Copper
17.	Fredericton Housing Ltd.	190 Leeds Drive	$\frac{3}{4}$ " Copper
18.	Suburban Construction Co.	29 Simcoe Court	$\frac{3}{4}$ " Copper
19.	G. MacNabb	31 Perley Court	$\frac{5}{8}$ " Copper
20.	Fredericton Housing Ltd.	210 Leeds Drive	$\frac{5}{8}$ " Copper
21.	Fredericton Housing Ltd.	218 Leeds Drive	$\frac{5}{8}$ " Copper
22.	Fredericton Housing Ltd	226 Leeds Drive	$\frac{5}{8}$ " Copper
23.	Wayne Hill	115 Beechwood Crescent	$\frac{3}{4}$ " Copper
24.	K. C. Howlett	307 Kings College Road	$\frac{3}{4}$ " Copper
25.	J. A. Williamson	Exhibition Grounds	1" Copper
26.	B. D. Stevens Ltd.	198 York Street	1" Copper
27.	Parsons Construction Co.	212 Queen Street	1" Copper
28.	Suburban Construction Co.	23 Simcoe Court	$\frac{3}{4}$ " Copper
29.	Maritime Engineering Ltd.	181 Westmorland Street	1" Copper
30.	Fredericton Housing Ltd.	837 Aberdeen Street	$\frac{3}{4}$ " Copper
31.	Marr Housing Ltd.	49 Pembroke Crescent	$\frac{3}{4}$ " Copper
32.	Florence T. Snodgrass	224 Edinburgh Street	$\frac{3}{4}$ " Copper
33.	Robert Grant	24 Bailey Drive	$\frac{3}{4}$ " Copper
34.	Gordon Christenson	27 Kennedy Court	$\frac{3}{4}$ " Copper
35.	Leo Brewer	220 Noble Street	$\frac{3}{4}$ " Copper
36.	Cummings Housing	86-90 Forest Hill Road	$\frac{3}{4}$ " Copper
37.	Fredericton Housing Ltd.	25 Southampton Drive	$\frac{5}{8}$ " Copper
38.	Archie Colpitts	418 Pederson Crescent	$\frac{3}{4}$ " Copper
39.	Edward Rogers	44 Birch Court	1" Copper
40.	Bruce A. Dunphy	309 Montgomery Street	$\frac{3}{4}$ " Copper
41.	Hill Bros. Ltd.	916 Smythe Street	$\frac{3}{4}$ " Copper
42.	Milford A. Kitchen	1040 Smythe Street	$\frac{3}{4}$ " Copper
43.	Hill Bros. Ltd.	192 Bessborough Street	$\frac{5}{8}$ " Copper
44.	Hill Bros. Ltd.	221 Bessborough Street	$\frac{5}{8}$ " Copper
45.	Charles J.F. White	26 Wilesey Road	$\frac{5}{8}$ " Copper
46.	Fredericton Housing Ltd.	238 Leeds Drive	$\frac{5}{8}$ " Copper
47.	Fredericton Housing Ltd.	75 Liverpool Street	$\frac{5}{8}$ " Copper
48.	Fredericton Housing Ltd.	85 Liverpool Street	$\frac{5}{8}$ " Copper
49.	Fredericton Housing Ltd.	65 Liverpool Street	$\frac{5}{8}$ " Copper
50.	Thomas McCarty	329 St. Marys Street	$\frac{3}{4}$ " Copper
51.	City Tire Services Ltd.	1190 Smythe Street	1" Copper
52.	Carl S. Hay	965 Forest Hill Road	1" Copper
53.	Fredericton Housing Ltd.	24 Folkestone Court	$\frac{5}{8}$ " Copper
54.	Fredericton Housing Ltd.	19 Folkestone Court	$\frac{5}{8}$ " Copper
55.	Fredericton Housing Ltd.	45 Liverpool Street	$\frac{5}{8}$ " Copper
56.	Fredericton Housing Ltd.	49 Folkestone Court	$\frac{5}{8}$ " Copper
57.	Fredericton Housing Ltd.	39 Folkestone Court	$\frac{5}{8}$ " Copper
58.	Fredericton Housing Ltd.	107 Rochester Street	$\frac{5}{8}$ " Copper
59.	Fredericton Housing Ltd.	34 Folkestone Court	$\frac{5}{8}$ " Copper
60.	Suburban Construction Co.	22 Simcoe Court	$\frac{3}{4}$ " Copper
61.	Alfred Hamill	354 Oxford Street	$\frac{3}{4}$ " Copper
2.	Suburban Construction Co.	38 Simcoe Court	$\frac{3}{4}$ " Copper
3.	Vaughan C. McManus	210 Noble Street	$\frac{3}{4}$ " Copper
4.	Harry C. Corey	1059 Regent Street	$\frac{3}{4}$ " Copper
5.	Robert L. Firlotte	999 Regent Street	$\frac{3}{4}$ " Copper

66.	Francis E. Atkinson	
67.	W. J. Oedmans	$\frac{3}{4}$ " Copper
68 $\frac{3}{4}$	Donald Noble	$\frac{3}{4}$ " Copper
69.	H. Orville Scott	$\frac{3}{4}$ " Copper
70.	Mrs. Doris M. Wood	$\frac{3}{4}$ " Copper
71.	Mrs. Doris M. Wood	$\frac{3}{4}$ " Copper
72.	Mrs. Doris M. Wood	$\frac{3}{4}$ " Copper
73.	James H. Burns	$\frac{3}{4}$ " Copper
74.	Fredericton Housing Ltd.	5/8" Copper
75.	Fredericton Housing Ltd.	5/8" Copper
76.	Fredericton Housing Ltd.	5/8" Copper
77.	Fredericton Housing Ltd.	5/8" Copper
78.	Thomas Bourque	$\frac{3}{4}$ " Copper
79.	Donald Grant	$\frac{3}{4}$ " Copper
80.	Hazen Thomas	5/8" Copper
81.	P. A. Byrne	5/8" Copper
82.	Hill Bros. Ltd.	$\frac{3}{4}$ " Copper
83.	Hill Bros. Ltd.	$\frac{3}{4}$ " Copper
84.	Hill Bros. Ltd.	$\frac{3}{4}$ " Copper
85.	Eldon Dunphy	$\frac{3}{4}$ " Copper
86.	Eldon Dunphy	$\frac{3}{4}$ " Copper
87.	Eldon Dunphy	5/8" Copper
88.	Archie Colpitts	$\frac{3}{4}$ " Copper
89.	Fredericton Housing Ltd.	$\frac{3}{4}$ " Copper
90.	Fredericton Housing Ltd.	$\frac{3}{4}$ " Copper
91.	Dr. Brooks	$\frac{3}{4}$ " Copper
92.	Ferris Housing	$\frac{3}{4}$ " Copper
93.	Robert McCarty	5/8" Copper
94.	Charles Llewellyn	1" Copper
95.	Charles Llewellyn	$\frac{3}{4}$ " Copper
96.	Fredericton Housing Ltd.	5/8" Copper
97.	Fredericton Housing Ltd.	5/8" Copper
98.	Villers Construction Co.	1" Copper
99.	Fredericton Housing Ltd.	5/8" Copper
100.	Fredericton Housing Ltd.	5/8" Copper
101.	Fredericton Housing Ltd.	5/8" Copper
102.	Suburban Construction Co.	$\frac{3}{4}$ " Copper
103.	W. W. Colpitts	$\frac{3}{4}$ " Copper
104.	Wayne Hill	$\frac{3}{4}$ " Copper
105.	Fredericton Housing Ltd.	5/8" Copper
106.	MacDonald Enterprises	$\frac{3}{4}$ " Copper
107.	Carl S. Hay	1" Copper
108.	Kinghorn & Dickie Ltd.	$\frac{3}{4}$ " Copper
109.	Mary I. Bailey	$\frac{3}{4}$ " Copper
110.	Donald E. Wilson	$\frac{3}{4}$ " Copper
111.	Wayne Hill	$\frac{3}{4}$ " Copper
112.	Gilbert Williams	$\frac{3}{4}$ " Copper
113.	Fredericton Housing Ltd.	5/8" Copper
114.	Arthur J. Arsenault	$\frac{3}{4}$ " Copper
115.	Fredericton Housing Ltd.	5/8" Copper
116.	Fredericton Housing Ltd.	5/8" Copper
117.	Glenwood Kitchen	$\frac{3}{4}$ " Copper
118.	Malcolm Cummings	$\frac{3}{4}$ " Copper
119.	Donald Hill	$\frac{3}{4}$ " Copper
120.	Mrs. Doris M. Wood	$\frac{3}{4}$ " copper
121.	Fredericton Housing Ltd.	5/8" Copper
122.	Hill Bros. Ltd.	$\frac{3}{4}$ " Copper
123.	Eureka Holdings Ltd.	$\frac{3}{4}$ " Copper
124.	Ernest McLean	1" Copper
125.	Ernest McLean	1" Copper
126.	Fredericton Housing Ltd.	$\frac{3}{4}$ " Copper
127.	Suburban Construction Co.	$\frac{3}{4}$ " Copper
128.	Fredericton Housing Ltd.	$\frac{3}{4}$ " Copper
129.	E. R. Dunphy Ltd.	$\frac{3}{4}$ " Copper
130.	Fredericton Housing Ltd.	$\frac{3}{4}$ " Copper
	951 Regent Street	
	1013 Regent Street	
	787 Jones Street	
	1072 Regent Street	
	1084 Regent Street	
	1104 Regent Street	
	1110 Regent Street	
	807 Jones Street	
	54 Folkestone Court	
	29 Folkestone Court	
	44 Folkestone Court	
	759 Montgomery Street	
	579 Squires Street	
	585 Squires Street	
	36 Bailey Drive	
	123 Titus Street	
	45 Lorne Street	
	29 Lorne Street	
	195 Bessborough Street	
	10 Colter Court	
	875 Windsor Street	
	255 Kings College Road	
	450 Mansfield Street	
	5 Heather Terrace	
	4 Heather Terrace	
	7 Heather Terrace	
	159 Lynhaven Street	
	Killarney Road	
	1222 Regent Street	
	1165 Smythe Street	
	227 Leeds Drive	
	247 Leeds Drive	
	711 Irvine Street	
	42 Southampton Drive	
	95 Liverpool Street	
	80 Liverpool Street	
	32 Simcoe Court	
	586 Squires Street	
	580 Squires Street	
	55 Liverpool Street	
	20 Colter Court	
	Coliseum, Exhibition Grounds	
	105 Waggoners Lane	
	260 Dunn Road	
	748 Gregg Court	
	178 Massey Street	
	476 Pederson Crescent	
	140 Liverpool Street	
	1129 Regent Street	
	210 Liverpool Street	
	215 Liverpool Street	
	151 Bessborough Street	
	193 Massey Street	
	173 Massey Street	
	1177 Regent Street	
	165 Liverpool Street	
	222 Massey Street	
	1087 Regent Street	
	511 Lisgar Street	
	499 Lisgar Street	
	160 Liverpool Street	
	48 Simcoe Court	
	180 Liverpool Street	
	47 Simcoe Court	
	135 Liverpool Street	

131.	Eldon Dunphy	66 Bailey Drive	3/4"	Copper
132.	F. L. Boulter	21 Kennedy Court	2"	Copper
133.	Kenneth L. Howlett	24 Kennedy Court	3/4"	Copper
134.	Marr Housing	321 Montgomery Street	3/4"	Copper
135.	St. Marys Parish Church	770 McEvoy Street	3/4"	Copper
136.	Fredericton Housing Ltd.	150 Liverpool Street	3/4"	Copper
137.	Fredericton Housing Ltd.	155 Liverpool Street	3/4"	Copper
138.	Marr Housing	64 Pembroke Crescent	3/4"	Copper
139.	Hill Bros. Ltd.	255 Massey Street	2"	Copper
140.	Hill Bros. Ltd.	188 Massey Street	2"	Copper
141.	Donald Hill	183 Massey Street	2"	Copper
142.	Donald Hill	168 Massey Street	2"	Copper
143.	Fredericton Housing Ltd.	170 Liverpool Street	2"	Copper
144.	Wayne Hill	202 Massey Street	2"	Copper
145.	Fredericton Housing Ltd.	145 Liverpool Street	3/4"	Copper
146.	Wayne Hill	205 Massey Street	3/4"	Copper
147.	Fredericton Housing Ltd.	32 Southampton Drive	2"	Copper
148.	Hill Bros. Ltd.	215 Massey Street	2"	Copper
149.	Fredericton Housing Ltd.	22 Southampton Drive	2"	Copper
150.	Fredericton Housing Ltd.	105 Liverpool Street	2"	Copper
151.	Wendell Farris	212 Massey Street	2"	Copper
152.	Fredericton Housing Ltd.	8 Southampton Drive	3/4"	Copper
153.	Hill Bros. Ltd.	232 Massey Street	3/4"	Copper
154.	Hill Bros. Ltd.	225 Massey Street	3/4"	Copper
155.	Hill Bros. Ltd.	234 Bessborough Street	3/4"	Copper
156.	Hill Bros. Ltd.	254 Bessborough Street	3/4"	Copper
157.	Fredericton Housing Ltd.	31 Norfolk Drive	3/4"	Copper
158.	Suburban Construction Co.	41 Simcoe Court	3/4"	Copper
159.	Archie Colpitts	466 Mansfield Street	3/4"	Copper
160.	Suburban Construction Co.	25 Simcoe Court	3/4"	Copper
161.	R. E. Campbell	105 Prospect Street	3/4"	Copper
162.	Reginald Wheaton	46 Bailey Drive	3/4"	Copper
163.	Isabelle Peterson	94 Wilsey Road	5/8"	Copper
164.	Ernest McLean	484 Lisgar Street	1"	Copper
165.	Ernest McLean	487 Lisgar Street	1"	Copper
166.	Ernest McLean	496 Lisgar Street	1"	Copper
167.	Ernest McLean	508 Lisgar Street	1"	Copper
168.	Ernest McLean	536 Dufferin Street	1"	Copper
169.	Ernest McLean	550 Dufferin Street	1"	Copper
170.	Ernest McLean	564 Dufferin Street	1"	Copper
171.	Carl S. Hay	1155 Regent Street	1"	Copper
172.	Department of Veterans Affairs	1141 Regent Street	3/4"	Copper
173.	Doris G. Millett	1149 Regent Street	3/4"	Copper
174.	Gordon Polches	Lot # 3, Block # 4, Reserve	5/8"	Copper
175.	Wendell Farris	295 Montgomery Street	3/4"	Copper
176.	J. W. Bird & Co.	Industrial Area	1"	Copper
177.	Construction Services Ltd.	16 Kennedy Court	3/4"	Copper
178.	Villers Construction Co.	721-725 Irvine Street	1"	Copper
179.	Fredericton Housing Ltd.	237 Noble Street	3/4"	Copper
180.	Leo Brewer	240 Noble Street	3/4"	Copper
181.	Villers Construction Co.	709-713 Irvine Street	1"	Copper
182.	L. N. Darrah	810 Irvine Street	3/4"	Copper
183.	Glenwood MacKay	830 Irvine Street	3/4"	Copper
184.	Tingley's Save Easy	169 Dundonald Street	3/4"	Copper
185.	Ben Medjuck	147 Lynhaven Street	3/4"	Copper
186.	Malcolm Cummings	96-100 Forest Hill Road	3/4"	Copper
187.	Fredericton Housing Ltd.	5 Forest Acres Court	3/4"	Copper
188.	Hill Bros. Ltd.	151 Beechwood Crescent	1/2"	Copper
189.	Donald E. Wilson	129 St. Marys Street	1/2"	Copper
190.	Hill Bros. Ltd.	115 Bessborough Street	1/2"	Copper
191.	Suburban Construction Co.	333 Oxford Street	1/2"	Copper
192.	Suburban Construction Co.	319 Oxford Street	1/2"	Copper
193.	Archie Colpitts	480 Mansfield Street	1/2"	Copper
194.	Suburban Construction Co.	25 Harewood Court	1/2"	Copper
195.	MacDonald Building Supplies	244 Kings College Road	5/8"	Copper

196.	Suburban Construction Co.	50 Harewood Court	3/4" Copper
197.	Atl.s Construction Co. Ltd.	1050 College Hill Road	8" C. I.
198.	T. C. Gough	776 York Street	3/4" Copper
199.	Hill Bros. Ltd.	944 Smythe Street	3/4" Copper
200.	Cummings Housing	173 Montgomery Street	3/4" Copper
201.	Fredericton Housing Ltd.	190 Liverpool Street	5/8" Copper
202.	Fredericton Housing Ltd.	21 Norfolk Drive	5/8" Copper
203.	Fredericton Housing Ltd.	41 Norfolk Drive	5/8" Copper
204.	S. C. R. Construction Co.	115 Waggoners Lane	3/4" Copper
205.	Cummings Housing	235 Massey Street	3/4" Copper
206.	Hill Bros. Ltd.	245 Massey Street	3/4" Copper
207.	Wayne Hill	242 Massey Street	3/4" Copper
208.	Walton K. Tibert Jr.	251 Bessborough Street	3/4" Copper
209.	Fredericton Housing Ltd.	66 Norfolk Drive	5/8" Copper
210.	Eldon Dunphy	755 Gregg Court	3/4" Copper
211.	Fredericton Housing Ltd.	96 Norfolk Drive	5/8" Copper
212.	Fredericton Housing Ltd.	8 Bristol Street	5/8" Copper
213.	Fredericton Housing Ltd.	126 Norfolk Drive	5/8" Copper
214.	Fredericton Housing Ltd.	106 Norfolk Drive	5/8" Copper
215.	Wendell Ferris	324 Kings College Road	3/4" Copper
216.	Gilbert Williams	484 Pederson Crescent	3/4" Copper
217.	Fredericton Housing Ltd.	Bristol Street (Lot # 305)	5/8" Copper
218.	Fredericton Housing Ltd.	76 Norfolk Drive	5/8" Copper
219.	Fredericton Housing Ltd.	206 Norfolk Drive	5/8" Copper
220.	Fredericton Housing Ltd.	215 Norfolk Drive	5/8" Copper
221.	Construction Services Ltd.	355 Oxford Street	3/4" Copper
222.	Fredericton Housing Ltd.	216 Norfolk Drive	5/8" Copper
223.	Suburban Construction Co.	274 Oxford Street	3/4" Copper
224.	Suburban Construction Co.	286 Oxford Street	3/4" Copper
225.	Marr Housing	161 Montgomery Street	3/4" Copper
226.	Fredericton Housing Ltd.	41 Bristol Street	5/8" Copper
227.	Fredericton Housing Ltd.	51 Bristol Street	5/8" Copper
228.	Noreen Valenta	872 Windsor Street	3/4" Copper
229.	Wayne Hill	156 Massey Street	3/4" Copper
230.	Fredericton Housing Ltd.	29 Bristol Street	5/8" Copper
231.	Fredericton Housing Ltd.	19 Bristol Street	5/8" Copper
232.	Fredericton Housing Ltd.	51 Norfolk Drive	5/8" Copper
233.	Fredericton Housing Ltd.	7 Bristol Street	5/8" Copper
234.	Fredericton Housing Ltd.	156 Norfolk Drive	5/8" Copper
235.	Fredericton Housing Ltd.	146 Norfolk Drive	5/8" Copper
236.	Fredericton Housing Ltd.	136 Norfolk Drive	5/8" Copper
237.	Donald Hill	265 Massey Street	3/4" Copper
238.	Perley M. Estey	131 Lynhaven Street	3/4" Copper
239.	Fredericton Housing Ltd.	85 Norfolk Drive	5/8" Copper
240.	Fredericton Housing Ltd.	186 Norfolk Drive	5/8" Copper
241.	Fredericton Housing Ltd.	48 Bristol Street	5/8" Copper
242.	Fredericton Housing Ltd.	176 Norfolk Drive	5/8" Copper
243.	Fredericton Housing Ltd.	175 Liverpool Street	5/8" Copper
244.	Fredericton Housing Ltd.	185 Liverpool Street	5/8" Copper
245.	W. Starr	299 Oxford Street	3/4" Copper
246.	Fredericton Housing Ltd.	86 Norfolk Drive	5/8" Copper
247.	Eldon Dunphy	101 York Street	3/4" Copper
248.	Archie Colpitts	488 Mansfield Street	3/4" Copper
249.	Malcolm Cummings	185 Montgomery Street	3/4" Copper
250.	John McKinnon	749 Prince Street	3/4" Copper
251.	Eldon Dunphy	759 Irvine Street	3/4" Copper
252.	Cordon Christenson	747 Irvihe Street	3/4" Copper
253.	Wayne Campbell	775 Irvine Street	3/4" Copper
254.	L.W. Hewlett	Bailey Drive (Lot # 110)	3/4" Copper
255.	Leo Brewer	247 Noble Street	3/4" Copper
256.	Jardine Renovations Ltd.	1105 Smythe Street	3/4" Copper
257.	Recreation Department	Leeds Drive	1" Copper
258.	Recreation Department	Beechwood Crescent	1" Copper

SPRINKLER SYSTEMS INSTALLED 1965

1. A. Gilmore Barker House, Queen Street
2. Tingley's Save Easy 169 Dundonald Street
3. William R. Quigg 582 Brunswick Street
4. City Tire Service Ltd. 1190 Smythe Street
5. H. Gilmore Ottawa Valley Lumber Co., Waggoners Lane

WATER RELAYS 1965.

1.	Myles Brooks	Lot # 3, Block # 1 Reserve	5/8" Copper
2.	W. J. Beairsto	Lot # 8, Block # 1 Reserve	5/8" Copper
3.	Lorne Little	108-110 Brunswick Street	3/4" Copper
4.	Mrs. James H. Sproul	329 Aberdeen Street	3/4" Copper
5.	H. H. Fradsham	535 Aberdeen Street	5/8" Copper
6.	Mrs. Byeon Brewer	338 George Street	3/4" Copper
7.	D. W. Simms	664 Union Street	3/4" Copper
8.	L. Stirling Edwards	74 Shore Street	3/4" Copper
9.	Mrs. Gifton Burtt	877 Union Street	5/8" Copper
10.	A. L. Denton	75 Charlotte Street	3/4" Copper
11.	University of New Brunswick	811 Charlotte Street	1" Copper
12.	Lawrence Garvie	622 George Street	1" Copper
13.	Richard Fox	102 Saunders Street	3/4" Copper
14.	Riverside Motors Ltd.	254-256 King Street	5/8" Copper
15.	Lawrence Garvie	174-176 Waterloo Row	1" Copper
16.	Charles Bilensky	871 Union Street	1" Copper
17.	L. Robinson	875 Union Street	1" Copper
18.	Ronald Bridges	646 Churchill Row	3/4" Copper
19.	B. A. Wright	256 Argyle Street	3/4" Copper
20.	H. H. McCartney	360 Northumberland Street	5/8" Copper
21.	Mrs. A. W. Coombes	79 St. Marys Street	3/4" Copper
22.	S. K. Thurber	641 Churchill Row	3/4" Copper
23.	M. B. Hogan	289 Regent Street	3/4" Copper
24.	Abe Levine & Sons Ltd.	113 Westmorland Street	3/4" Copper
25.	David Kileel	307-309 Queen Street	1" Copper
26.	W. B. Trites	283-287 St. John Street	3/4" Copper
27.	Christ Church Corporation	245 Westmorland Street	3/4" Copper
28.	Mrs. Roberta Eaton	356 Gibson Street	5/8" Copper
29.	C. W. Cavanaugh	376 University Avenue	5/8" Copper
30.	J. Reid Morgan	27 Shore Street	5/8" Copper

NEW METERS INSTALLED 1965.

1.	Fredericton Housing Ltd.	80 Rochester Street
2.	Fredericton Housing Ltd.	167 Leeds Drive
3.	Fredericton Housing Ltd.	177 Leeds Drive
4.	Grace Memorial Church	205 Connaught Street
5.	Geo. B. Green	167 Jaffrey Street
6.	Fredericton Housing Ltd.	200 Leeds Drive
7.	Kenneth Howlett	35 Kennedy Court
8.	Mrs. Lila M. Peters	113 St. Marys Street
9.	Schurmans Ltd.	31 Simcoe Court
10.	York Structural Steel	Industrial Park
11.	A. R. Walker	1111 Smythe Street
12.	Fredericton Housing Ltd.	100 Rochester Street
13.	Fredericton Housing Ltd.	95 Leeds Drive
14.	Fredericton Housing Ltd.	157 Leeds Drive
15.	Hill Bros. Ltd.	141 Bessborough Street
16.	Teachers College	Recreation Building,
17.	Suburban Construction Co.	732 Gregg Court
18.	Schurmans Ltd.	378 Oxford Street
19.	Suburban Construction Co.	43 Simcoe Court
20.	Fredericton Housing Ltd.	197 Leeds Drive
21.	J. W. Bird	9 Simcoe Court
22.	Suburban Construction Co.	79 Pembroke Crescent
23.	Suburban Construction Co.	15 Harewood Crescent
24.	D. Leonard	571 Squires Street
25.	Hill Bros. Ltd.	172 Bessborough Street
26.	Charles Llewellyn	31 Waggoners Lane
27.	Fredericton Housing Ltd.	75 Leeds Drive
28.	Cowan Construction Co.	346 College Hill Road
29.	Phillip G. Smith	89 Pembroke Crescent
30.	Aubrey Owens	825 Irvine Street
31.	Mrs. Mildred G. Beattie	143 Beechwood Crescent
32.	Harry Jordan	720 Union Street
33.	Elwin Lovegrove	654 Phillip Street
34.	Thomas Kirkpatrick	45 Simcoe Court
35.	Municipality of York	665 George Street
36.	Fredericton Housing Ltd.	67 Rochester Street
37.	Wilmot Church Hall	Carleton Street
38.	Mrs. Betty Sullivan	584 MacLaren Avenue
39.	Mandlyn Motel	Prospect Street
40.	Abner B. Belyea	79 McKeen Street
41.	Cash & Carry Cleaners Ltd.	111 King Street
42.	Alexander Bodo	149 Montgomery Street
43.	Dale I. Bray	428 Mansfield Street
44.	U. N. B. Club House	Aberdeen Street
45.	Otto Sherwood	438 Mansfield Street
46.	G. Dayton	567-569 Waterloo Row
47.	Fredericton Housing Ltd.	150 Leeds Drive
48.	D. W. Simms	664 Union Street
49.	Victory Meat Market	334 King Street
50.	Victory Meat Market	334 King Street
51.	Fire Department	College Hill Road
52.	Brunswick Arms Apartments	198 York Street
53.	Wilson Laundry Ltd	358 Westmorland Street
54.	Wilson Laundry Ltd.	358 Westmorland Street
55.	Province of New Brunswick	King Street
56.	Schurmans Ltd.	59 Pembroke Crescent
57.	Fredericton Housing Ltd.	190 Leeds Drive
58.	Fredericton Housing Ltd.	218 Leeds Drive
59.	A. H. Kingett	307 Kings College Road
60.	Charles White	26 Wilsey Road
61.	Standard Investments Ltd.	212 Queen Street
62.	Archie Colpitts	418 Pederson Crescent
63.	Fredericton Housing Ltd.	839 Aberdeen Street
64.	U. N. B. Maintenance Building	University Avenue
65.	Suburban Construction Co.	23 Simcoe Court

66. Hill Bros. Ltd.
67. Hill Bros. Ltd.
68. Suburban Construction Co.
69. Fredericton Housing Ltd.
70. Fredericton Housing Ltd.
71. Leo Brewer
72. Eldon Dunphy
73. Glen Turnbull
74. Edward Rogers
75. Wayne Hill
76. J. A. Williamson(Stables)
77. City Tire Service Ltd.
78. Glenna Phillips
79. Wayne Hill
80. Fredericton Housing Ltd.
81. Vaughan C. McMenus
82. Bruce A. Dunphy
83. Fredericton Housing Ltd.
84. Fredericton Housing Ltd.
85. Fredericton Housing Ltd.
86. Fredericton Housing Ltd.
87. H. J. Richards
88. Alfred Hamill
89. L. Poore
90. Donald Noble
91. Mrs. Doris M. Wood
92. W. A. Squires
93. G. MacNabb
94. Robert Grant
95. George Woodbury
96. Thomas McCarty
97. Orville Scott
98. Mrs. Doris M. Wood
99. Mrs. Doris M. Wood
100. P. A. Byrne
101. E. D. Parent
102. Goerge D. Parker
103. C. Sivret
104. Archie Colpitts
105. Robert McCarty
106. M. Kitchen
107. McCarty
108. Fredericton Housing Ltd.
109. E. R. Dunphy Ltd.
110. Rita Day
111. Hill Bros. Ltd.
112. Hill Bros. Ltd.
113. Marr Housing Ltd.
114. E. R. Dunphy Ltd.
115. Cummings Housing
116. Hill Bros. Ltd.
117. Fredericton Housing Ltd.
118. Fredericton Housing Ltd.
119. Fredericton Housing Ltd.
120. Fredericton Housing Ltd.
121. Maritime Engineering Ltd.
122. Charles Llewellyn
123. B. A. Wright
124. Thomas Bourque
125. MacDonald Building & Supplies Ltd.
126. D. R. Brooks
127. Suburban Construction Co.
128. Suburban Construction Co.
129. Suburban Construction Co.
130. Coliseum Rink

175 Bessborough Street
131 Massey Street
29 Simcoe Court
25 Southampton Drive
238 Leeds Drive
220 Noble Street
722 Irvine Street
15 Kennedy Court
44 Birch Court
741 Gregg Court
Exhibition
1190 Smythe Street
29 Bailey Drive
115 Beechwood Crescent
226 Leeds Drive
210 Noble Street
309 Montgomery Street
65 Liverpool Street
45 Liverpool Street
19 Folkestone Court
210 Leeds Drive
345 Oxford Street
354 Oxford Street
753 Coombes Street
787 Jones Street
1104 Regent Street
621 Regent Street
31 Perley Court
24 Bailey Drive
758 Coombes Street
329 St. Marys Street
1072 Regent Street
1084 Regent Street
1110 Regent Street
123 Titus Street
855 Smythe Street
570 Lincoln Road
276 Highland Avenue
450 Mansfield Street
St. Marys Street
1040 Smythe Street
337 St. Marys Street
85 Liverpool Street
756 Gregg Court
263 St. Marys Street
192 Bessborough Street
224 Bessborough Street
49 Pembroke Crescent
10 Colter Court
86-90 Forest Hill Road
45 Lorne Street
75 Liverpool Street
39 Folkestone Court
24 Folkestone Court
34 Folkestone Court
181 Westmorland Street
1222 Regent Street
256 Argyle Street
579 Squires Street
20 Colter Court
7 Heather Terrace
22 Simcoe Court
38 Simcoe Court
32 Simcoe Court
Exhibition

131. Fredericton Housing Ltd.
 132. Fredericton Housing Ltd.
 133. Fredericton Housing Ltd.
 134. Fredericton Housing Ltd.
 135. Fredericton Housing Ltd.
 136. Fredericton Housing Ltd.
 137. E. McLean
 138. E. McLean
 139. Florence T. Snodgrass
 140. Kinghorn & Dickie Ltd.
 141. Murchland
 142. Hill Bros. Ltd.
 143. Dr. Fakete
 144. John Bird
 145. Fredericton Housing Ltd.
 146. F. R. Dunphy Ltd.
 147. Donald E. Wilson
 148. Eureka Holdings
 149. Mrs. A. W. Coombes
 150. Arthur Arnenault
 151. Malcolm Cummings
 152. Donald Hill
 153. E. McLean
 154. E. McLean
 155. E. McLean
 156. E. McLean
 157. Hill Bros. Ltd.
 158. Fredericton Housing Ltd.
 159. Wayne Hill
 160. Donald Grant
 161. Gilbert Williams
 162. Hill Bros. Ltd.
 163. Wayne Hill
 164. Suburban Construction Co.
 165. Robert Firlotte
 166. Mrs. Mary L. Bailey
 167. I. Forbes
 168. James H. Burns
 169. E. R. Dunphy Ltd.
 170. E. McLean
 171. E. McLean
 172. E. McLean
 173. Mrs. Harry Peterson
 174. R. Millett
 175. Ferris Housing
 176. Kenneth L. Howlett
 177. St. Marys Church Rectory
 178. J. W. Bird
 179. Levines Ltd.
 180. Fredericton Housing Ltd.
 181. Suburban Construction Co.
 182. Suburban Construction Co.
 183. E. E. Dunphy Ltd.
 184. Fredericton Housing Ltd.
 185. Fredericton Housing Ltd.
 186. Glenwood Kitchen
 187. Harry Corey
 188. Fredericton Housing Ltd.
 189. Fredericton Housing Ltd.
 190. Fredericton Housing Ltd.
 191. Fredericton Housing Ltd.
 192. Donald Hill
 193. Wendell Farris
 194. P. McGuire
 195. W. W. Colpitts
- 80 Liverpool Street
 29 Folkestone Court
 49 Folkestone Court
 54 Folkestone Court
 140 Liverpool Street
 42 Southampton Drive
 499 Lisgar Street
 571 Lisgar Street
 224 Edinburgh Street
 105 Waggoners Lane
 916 Smythe Street
 195 Bessborough Street
 5 Heather Terrace
 4 Heather Terrace
 759 Montgomery Street
 875 Windsor Street
 748 Gregg Court
 1087 Regent Street
 79 St. Marys Street
 1129 Regent Street
 193 Massey Street
 173 Massey Street
 487 Lisgar Street
 484 Lisgar Street
 496 Lisgar Street
 508 Lisgar Street
 257 Bessborough Street
 55 Liverpool Street
 580 Squires Street
 585 Squires Street
 476 Pederson Crescent
 29 Lorne Street
 178 Massey Street
 48 Simcoe Court
 999 Regent Street
 260 Dunn Road
 321 Montgomery Street
 807 Jones Street
 255 Kings College Road
 564 Dufferin Street
 550 Dufferin Street
 536 Dufferin Street
 94 Wilsey Road
 1149 Regent Street
 159 Lynhaven Street
 24 Kennedy Court
 770 McEvoy Street
 Industrial Park
 113 Westmorland Street
 160 Liverpool Street
 25 Simcoe Court
 41 Simcoe Court
 47 Simcoe Court
 95 Liverpool Street
 105 Liverpool Street
 151 Bessborough Street
 1059 Regent Street
 135 Liverpool Street
 150 Liverpool Street
 210 Liverpool Street
 31 Norfolk Drive
 168 Massey Street
 295 Montgomery Street
 792 York Street
 586 Squires Street

196. Mrs. Doris M. Wood
197. Gordon Polches
198. H. Arsenault
199. Hazen Thomas
200. Donald Wilson
201. Fredericton Housing Ltd.
202. Fredericton Housing Ltd.
203. Fredericton Housing Ltd.
204. Fredericton Housing Ltd.
205. Fredericton Housing Ltd.
206. Donald Hill
207. Hill Bros. Ltd.
208. Hill Bros. Ltd.
209. Marr Housing Ltd.
210. L. M. Darrach
211. F. L. Boulter
212. Wayne Hill
213. Wayne Hill
214. Hill Bros. Ltd.
215. Reginald Wheaton
216. Suburban Construction Co.
217. Hill Bros. Ltd.
218. R. E. Campbell
219. Suburban Construction Co.
220. Hill Bros. Ltd.
221. Archie Colpitts
222. Tingleys Save Easy Store
223. Fredericton Housing Ltd.
224. Malcolm Cummings
225. Fredericton Housing Ltd.
226. Fredericton Housing Ltd.
227. K. Fitzgerald
228. U. N. B. Administration & Infirmary
229. Glenwood MacKay
230. M. & B. Warehouse
231. Suburban Construction Co.
232. Fredericton Housing Ltd.
233. Thomas Gough
234. Wayne Hill
235. Ben Medjuck
236. Fredericton Housing Ltd.
237. Fredericton Housing Ltd.
238. Fredericton Housing Ltd.
239. W. K. Tibert Jr.
240. Riverside Motors Ltd.
241. Miss Forman
242. Fredericton Housing Ltd.
243. Fredericton Housing Ltd.
244. Fredericton Housing Ltd.
245. Perley Estey
246. Suburban Construction Co.
247. Suburban Construction Co.
248. Charles Llewellyn
249. Hill Bros. Ltd.
250. Hill Bros. Ltd.
251. Fredericton Housing Ltd.
252. Wendell Farris
253. Hill Bros. Ltd.
~~254. XXXXXXXXXX~~
254. Ottawa Valley Lumber Co.
255. Cummings Housing
256. Hill Bros. Ltd.
257. Donald Hill
258. Hill Bros. Ltd.
259. W. S. Starr
260. Wayne Hill

1098 Regent Street
Dedham Street
1141 Regent Street
36 Bailey Drive
129 St. Marys Street
180 Liverpool Street
145 Liverpool Street
247 Leeds Drive
32 Southampton Drive
44 Folkestone Court
183 Massey Street
188 Massey Street
225 Massey Street
161 Montgomery Street
810 Irvine Street
21 Kennedy Court
202 Massey Street
205 Massey Street
222 Massey Street
46 Bailey Drive
50 Harewood Crescent
232 Massey Street
105 Prospect Street
25 Harewood Crescent
215 Massey Street
466 Mansfield Street
169 Dundonald Street
8 Bristol Street
96-100 Forest Hill Road
22 Southampton Drive
8 Southampton Drive
286 Montgomery Street
University Avenue
830 Irvine Street
York Street
333 Oxford Street
5 Forest Acres Court
776 York Street
242 Massey Street
147 Lynhaven Street
215 Norfolk Drive
66 Norfolk Drive
96 Norfolk Drive
251 Bessborough Street
256 King Street
237 Noble Street
107 Rochester Street
227 Leeds Drive
165 Liverpool Street
131 Lynhaven Street
319 Oxford Street
286 Oxford Street
1165 Smythe Street
115 Bessborough Street
254 Bessborough Street
215 Liverpool Street
212 Massey Street
944 Smythe Street

115 Waggoners Lane
235 Massey Street
245 Massey Street
265 Massey Street
255 Massey Street
299 Oxford Street
156 Massey Street



THE CITY OF
FREDERICTON & VICINITY

FEET 1000 0 1 2 3 4 5

CONSTRUCTION — 1965.

NEW PAVEMENT	— .23 MILES.
NEW STREETS (GRAVEL ROAD CONSTRUCTION)	— 3.20 MILES.
GRAADING AND GRAVELLING EXISTING STREETS	— 3.59 MILES.
"A" AND "D" CORPORATION SUB-DIVISION	—
WATER	— 0.63 MILES.
SURFACE SEWER	— 0.17 MILES.
DOMESTIC SEWER	— 0.00 MILES.
1/4" HOT MIX	— 1.58 MILES.
1/8 - 1/4" CHIPS	— 2.10 MILES.

