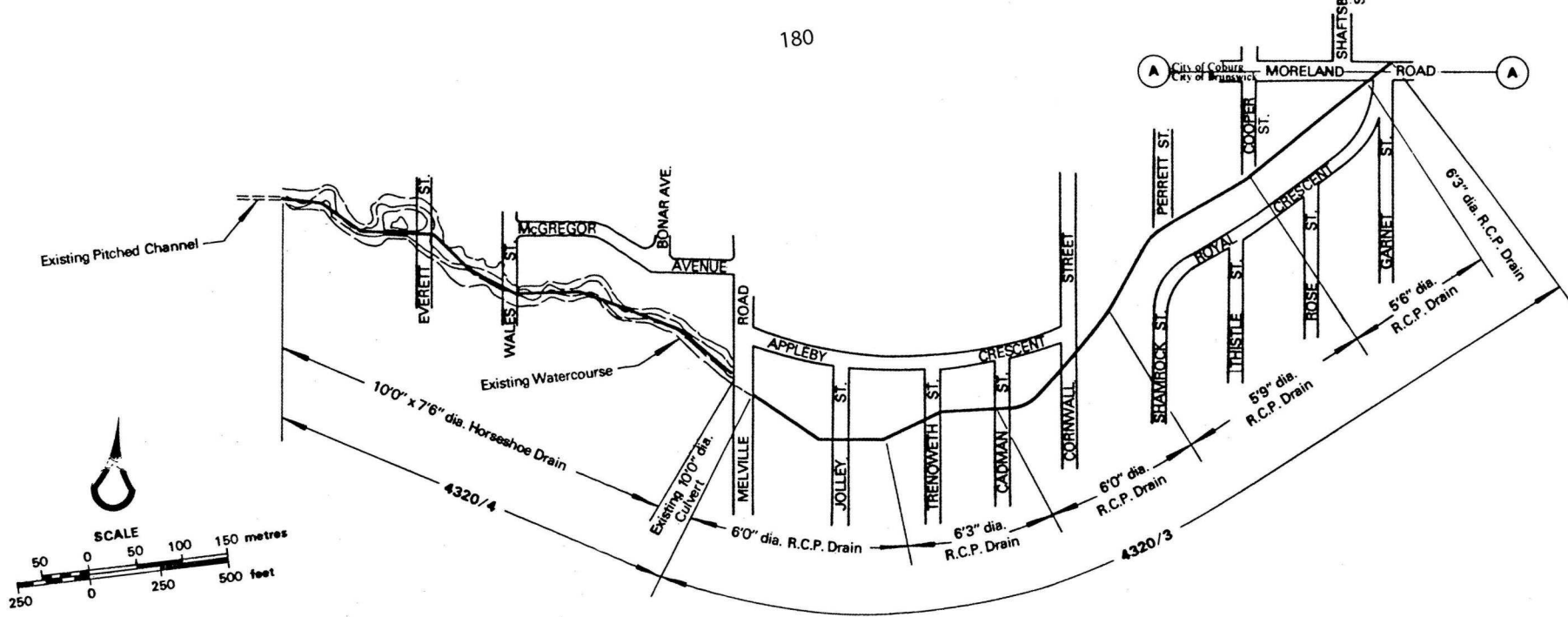
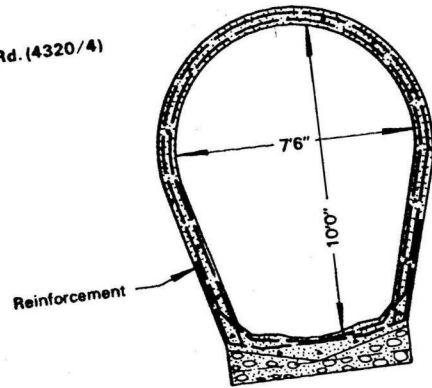


## **APPENDIX A**

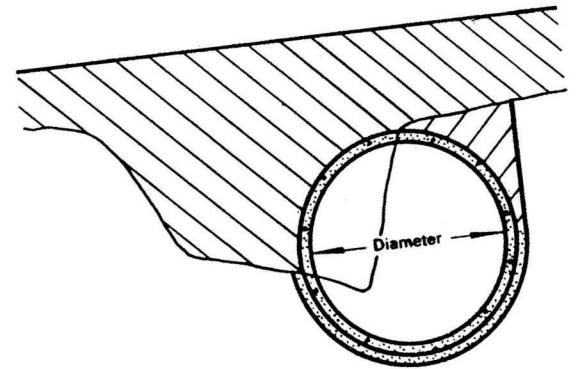
**Works on Tributaries, 1928 to 1940:  
Detailed Locality Plans, Type Sections and Details of Works.**



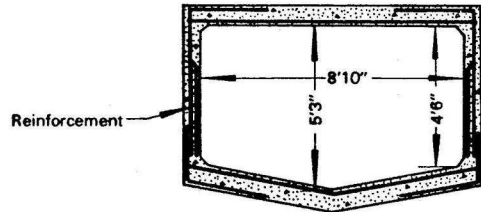
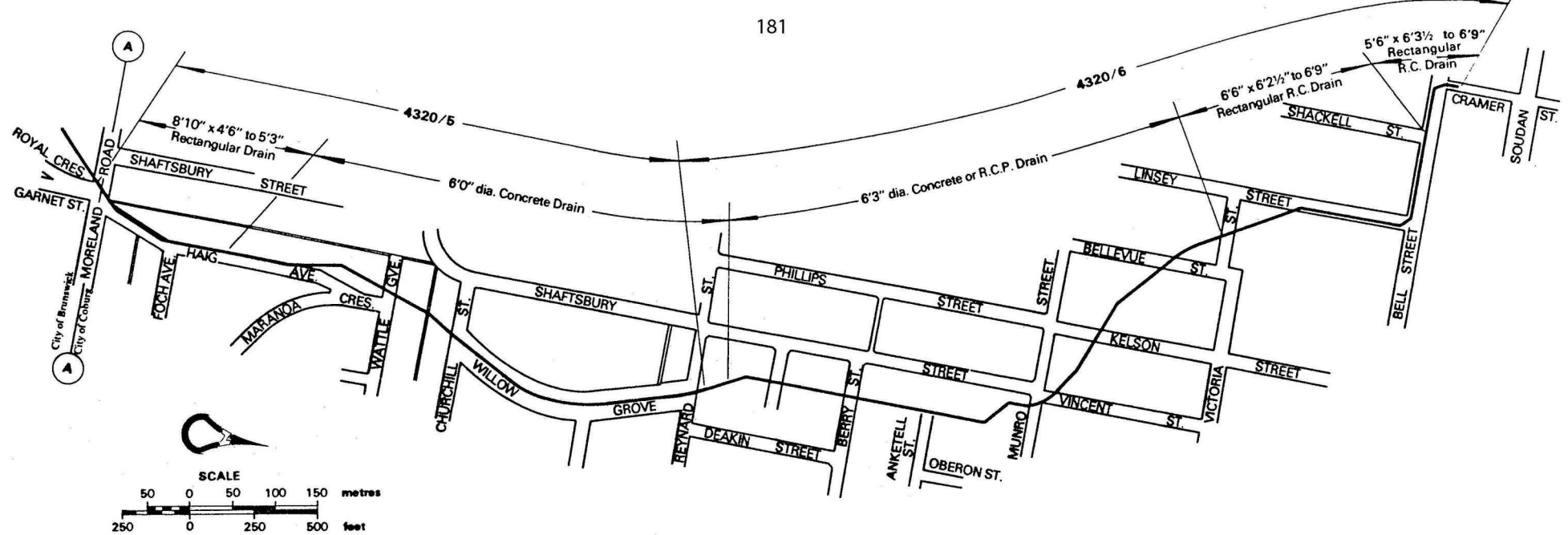
Undergrounding — Everett St. to Melville Rd. (4320/4)  
 Date of commencement — 1.10.36  
 Date of completion — 29.10.36  
 Cost — £7,380  
 Type of drain — Horseshoe drain  
 Dimensions — 7'6" x 10'0"



Undergrounding — Melville Rd. to Moreland Rd. (4320/3)  
 Date of commencement — 21.7.30  
 Date of completion — 6.2.31  
 Cost — £6,256  
 Type of drain — R.C. pipe  
 Dimensions — 5'6" to 6'3" diameter



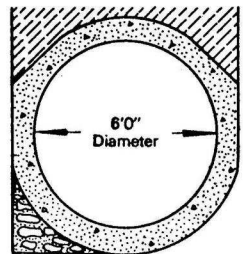
MELVILLE MAIN DRAIN — No. 4320



**North Branch Section 2 — Undergrounding**  
 Moreland Rd. to Reynard St. (4320/5)

Date of commencement — 1937  
 Date of completion — 1937  
 Cost — £7,342 (estimated)

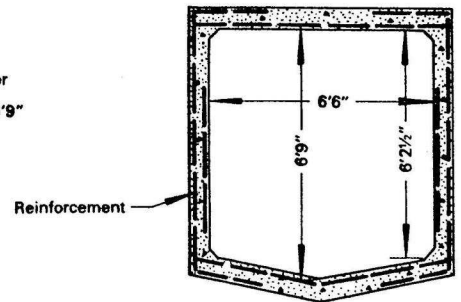
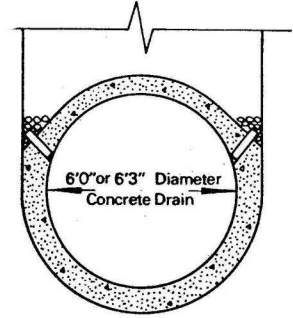
Type of drain — Rectangular and Concrete  
 Dimensions — Rectangular — 8'10" x 4'6" to 5'3"  
 Concrete — 6'0" diameter

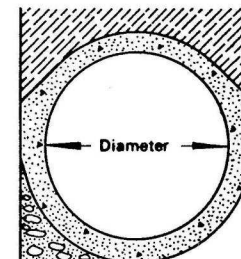
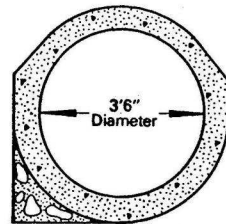
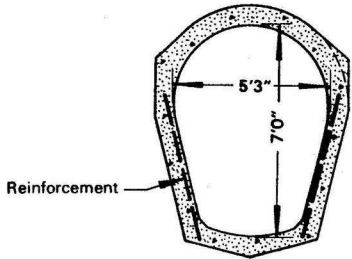
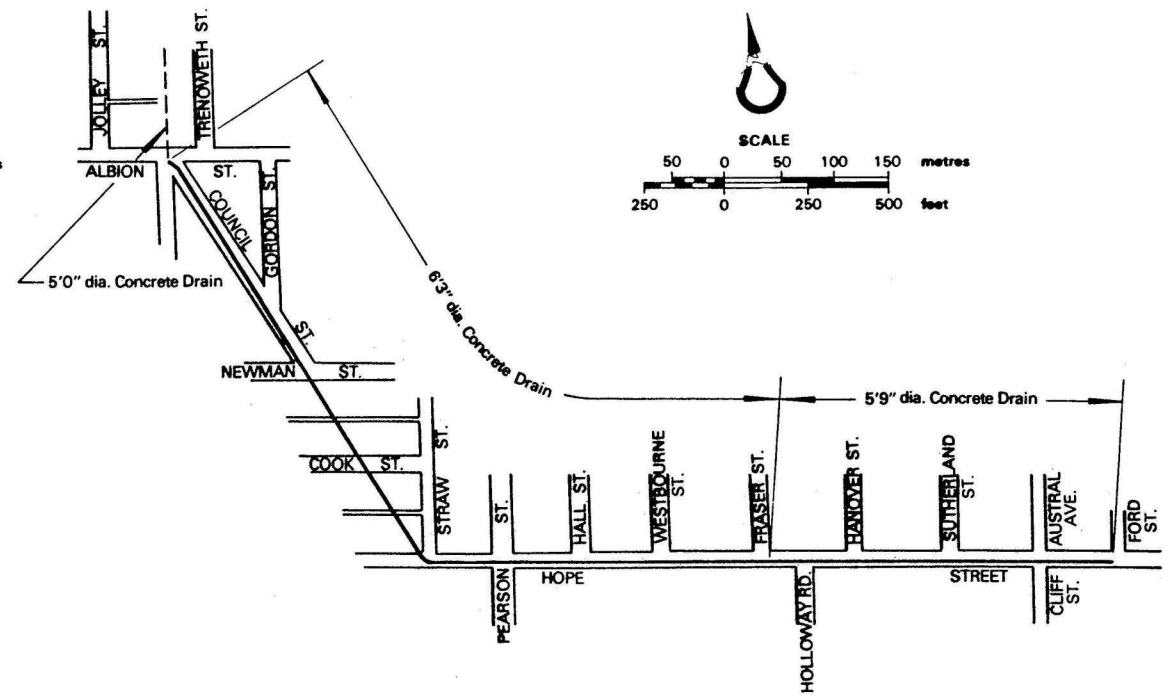
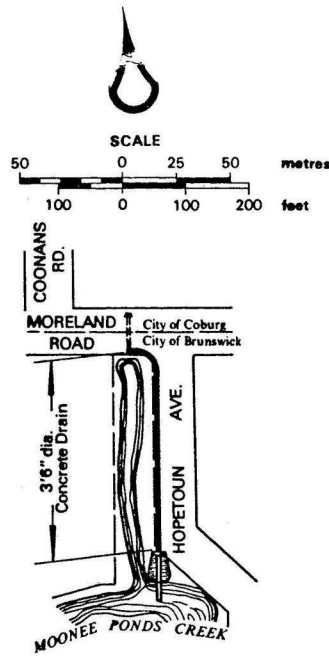
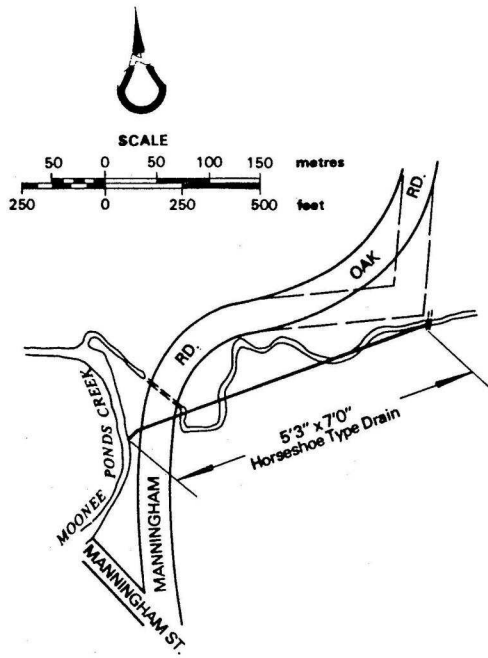


**North Branch Section 3 — Undergrounding**  
 Reynard St. to Bell St. (4320/6)

Date of commencement — 29.3.40  
 Date of completion — 6.12.40  
 Cost — £12,758

Type of drain — Concrete and Rectangular  
 Dimensions — Concrete — 6'0" or 6'3" diameter  
 Rectangular — 6'6" x 6'2½" to 6'9"





**Undergrounding — Moonee Ponds Creek to East Manningham Rd. (4313/1)**

Date of commencement — 1938  
 Date of completion — 1938  
 Cost — £3,500 (estimated)  
 Type of drain — Horseshoe drain  
 Dimensions — 5'3" x 7'0"

**ROYAL PARK MAIN DRAIN  
 No. 4313**

**Undergrounding — Moonee Ponds Creek to Moreland Rd. (4325/1)**

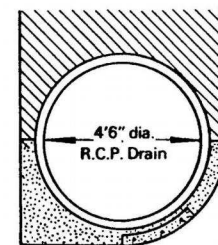
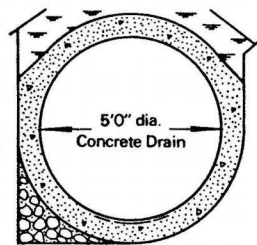
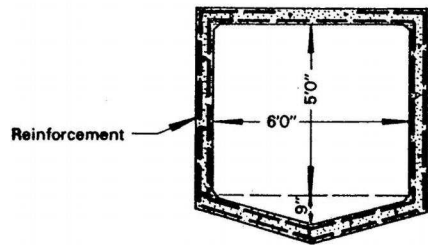
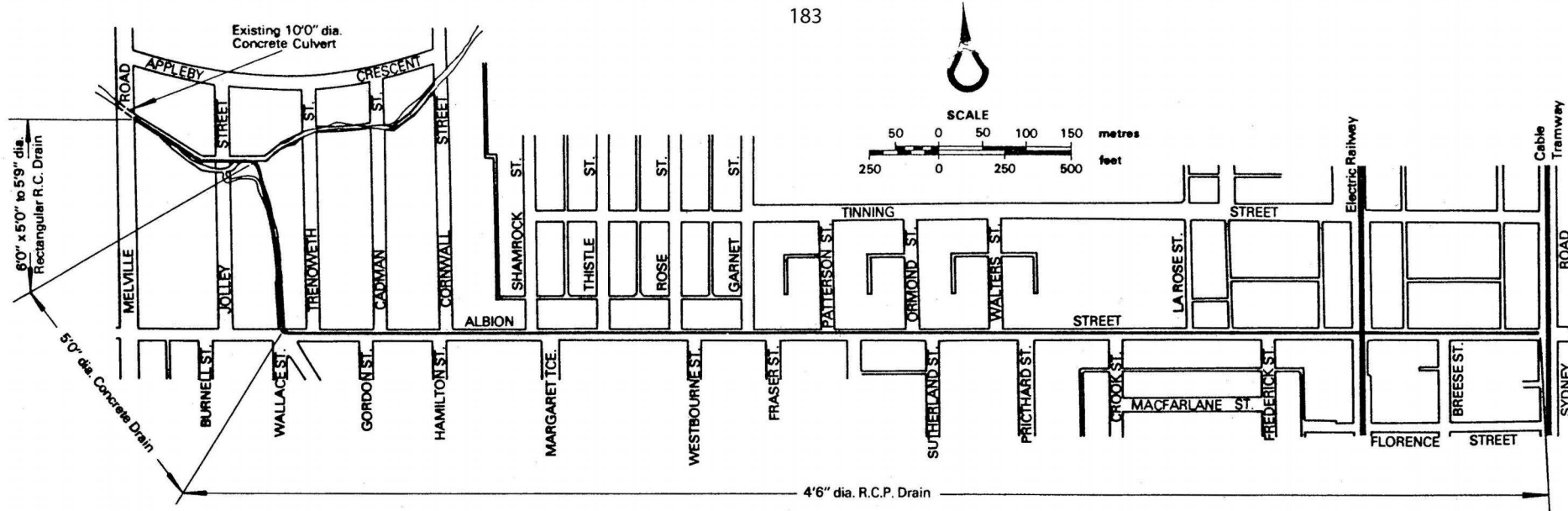
Date of commencement — 17.9.28  
 Date of completion — 21.11.28  
 Cost — £674  
 Type of drain — Concrete  
 Dimensions — 3'6" diameter

**COONANS ROAD MAIN DRAIN  
 No. 4325**

**Undergrounding — Albion St. M.D. to Ford St. (4321/2)**

Date of commencement — 1937  
 Date of completion — 1937  
 Cost — Unknown  
 Type of drain — Concrete  
 Dimensions — 5'9" to 6'3" diameter

**HOPE STREET MAIN DRAIN — No. 4321**



**Undergrounding of drain (4322/1)**

Date of commencement — 10.5.28

Date of completion — 30.1.29

Cost — £20,227

Type of drain — Rectangular R.C. drain

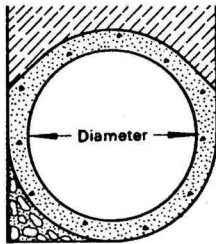
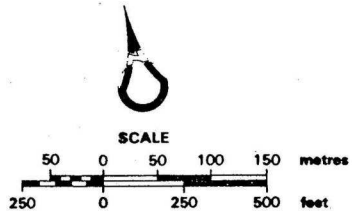
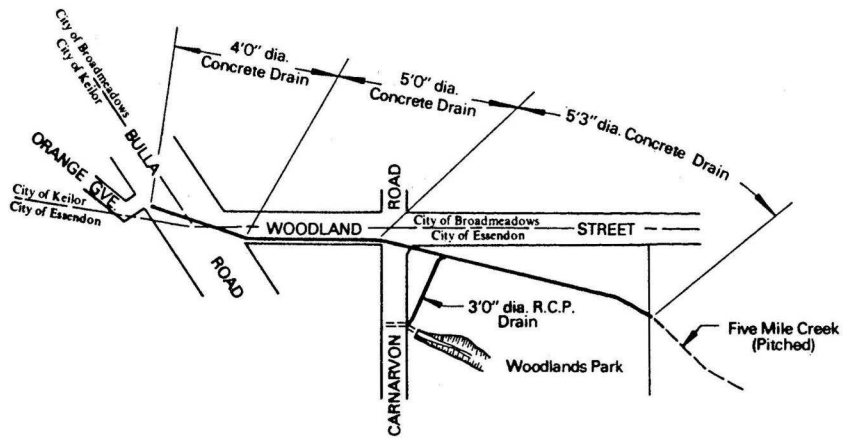
Concrete drain

R.C. pipe

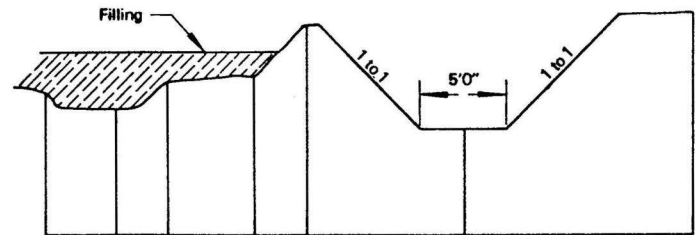
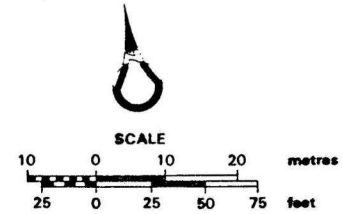
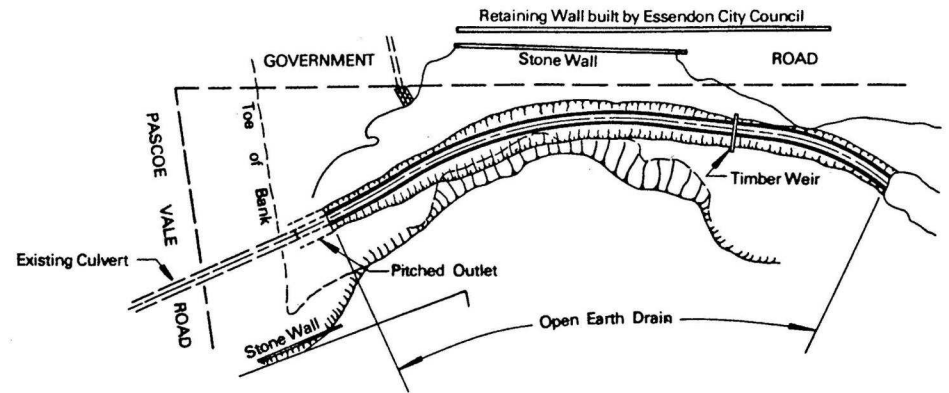
Dimensions — Rectangular R.C. — 6'0" x 5'0" to 5'9"

Concrete — 5'0" diameter

R.C. pipe — 4'6" diameter



**Undergrounding — Woodlands Park to Bulla Rd. (4330/3)**  
 Date of commencement — 2.8.29  
 Date of completion — 24.12.29  
 Cost — £4,718  
 Type of drain — Concrete  
 Dimensions — 4'0" to 5'3" diameter



**Channel east of Pascoe Vale Rd. (4330/6)**  
 Date of commencement — 1935  
 Date of completion — 1935  
 Cost — Unknown  
 Type of drain — Open earth  
 Dimensions — 5'0" base width

## **APPENDIX B**

## Appendix B

**DISCHARGE CAPACITY AND FREQUENCY ESTIMATES FOR WORKS  
CONSTRUCTED ON MOONEE PONDS CREEK****Unit Hydrograph Method**

Discharge Calculations :

Assumptions used -

1 Manning formula used with the following n values

concrete	$n_c = 0.013$
pitchers	$n_p = 0.020$
earth or grass	$n_g = 0.035$

2 Composite value for n determined by

where  $P_c$  = perimeter of concrete $P_p$  = perimeter of pitchers $P_g$  = perimeter of earth or grass

Method of Estimating Frequencies -

Unit hydrograph method was used with uniform rainfall intensities assumed for five frequencies.

Losses assumed (pervious areas only) - initial loss of 25 mm  
- continual loss of 2.5 mm/hr

A range of storm durations were tried to determine the critical duration at each station for each frequency. Durations used were 0.5, 0.75, 1.0, 1.5, 2, 3, 6, 9, 12 and 24 hours for 5, 10, 20, 50 and 100 year frequency.

The rainfall intensities were calculated using the 6th order polynomial with coefficients for the Melbourne Station (86071). The calculated intensities were then modified by an Areal reduction factor to account for rainfall variability over the catchment.

The analysis assumes Jacana Retarding Basin is working and current planning zoning.

**The "1953 Method" (see Section 5.1.1)**

The following formula was used (assuming the catchment to be developed to the extent shown in Reference 1) to calculate the expected ten-year frequency flood :

$$Q_{10 \text{ yr}} = 640 A^{0.8} \quad (1)$$

where Q = discharge in cusecs

A = catchment area in sq miles

Metric version of Equation (1)

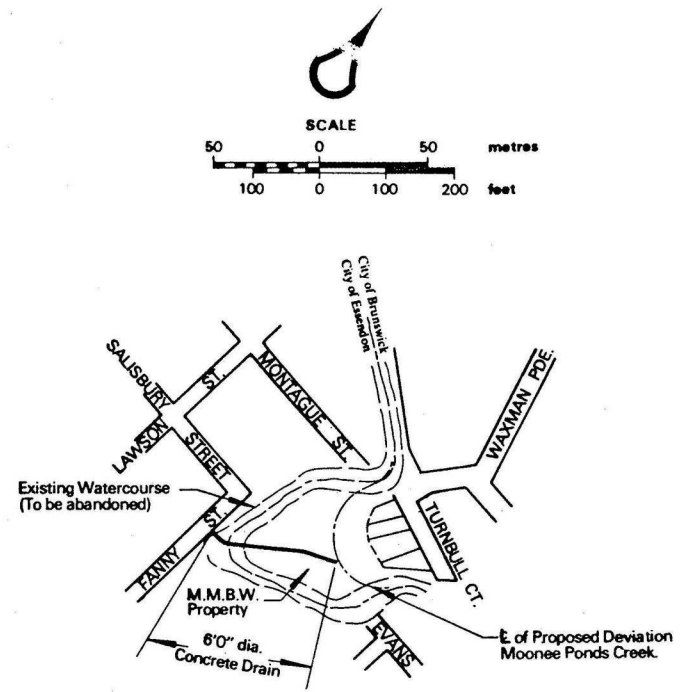
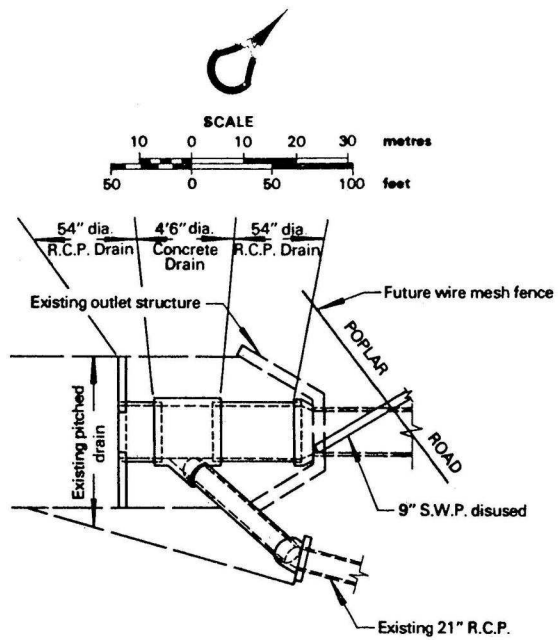
$$Q_{10 \text{ yr}} = 0.2126 A_1^{0.8}$$

where Q = discharge in m<sup>3</sup>/sA<sub>1</sub> = catchment area in ha'sReference 1. Borrie E F, 1948. *The future urban boundaries of Melbourne and the distribution of population therein*. MMBW: Melbourne.



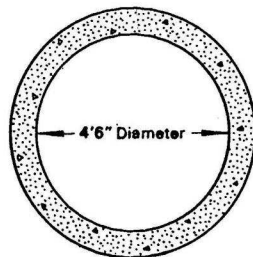
## **APPENDIX C**

**Works on Tributaries, 1941 to 1967:  
Detailed Locality Plans, Type Sections and Details of Works**



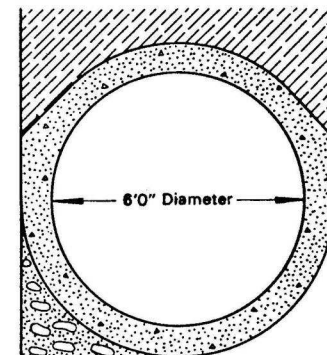
**Extension to culvert at Poplar Rd. (4313/5)**

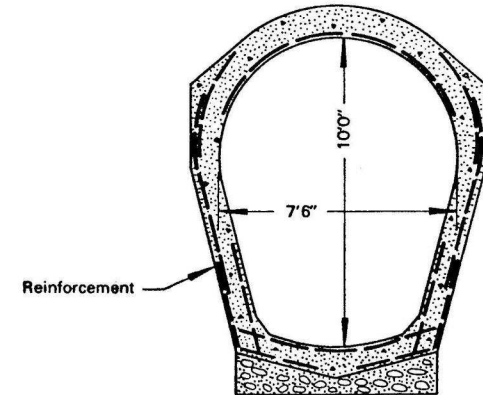
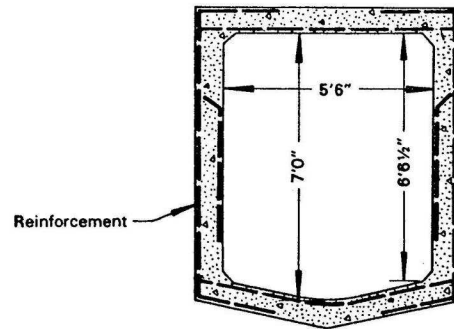
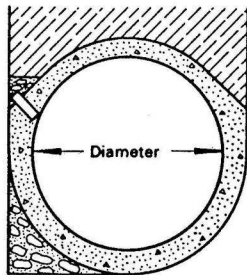
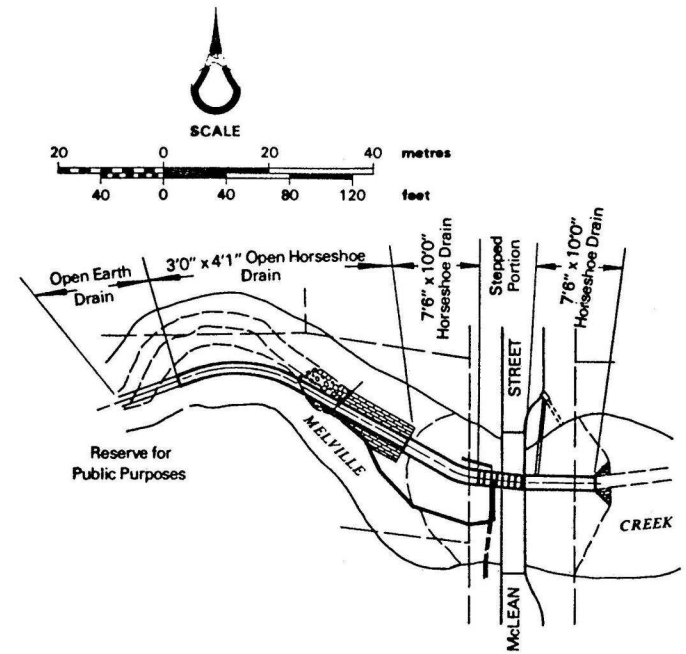
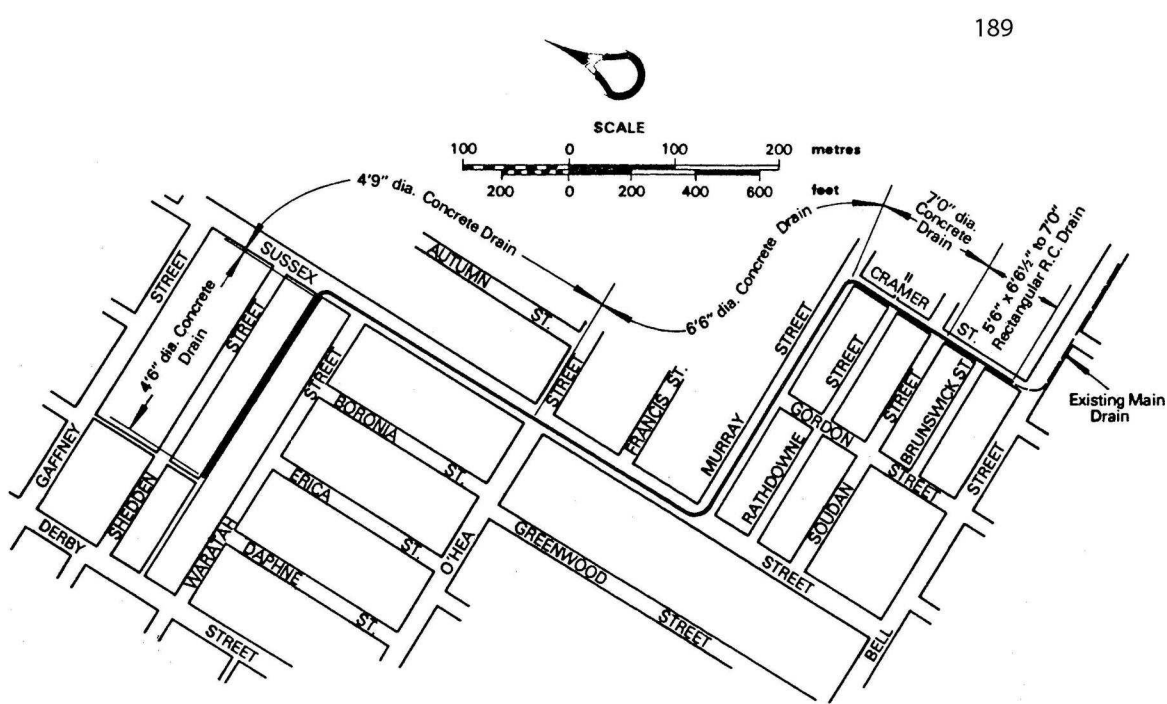
Date of issue — 5.6.58  
 Date of completion — 30.6.58  
 Cost — £319  
 Type of drain — Concrete and R.C. pipe  
 Dimensions — 4'6" diameter



**Extension of drain (4314/3)**

Date of issue — 14.5.62  
 Date of completion — 22.8.62  
 Cost — £9,013  
 Type of drain — Concrete  
 Dimensions — 6'0" diameter





**North Branch Section 4 — Undergrounding Bell St. to Daphne St. (4320/7)**

Date of issue — 7.1.47

Date of completion — June 1948

Cost — £23,855

Type of drain — Rectangular and Concrete

Dimensions — Rectangular — 5'6" x 6'6 1/2" to 7'0"

Concrete — 4'6" to 7'0" diameter

**Culvert at McLean St. (4320/8)**

Date of issue — 28.5.46

Date of completion — July 1947

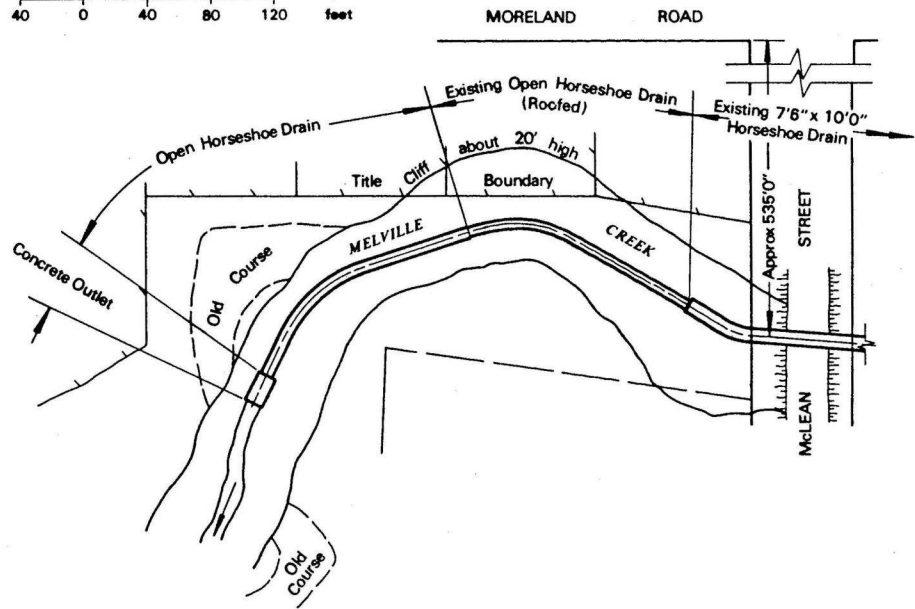
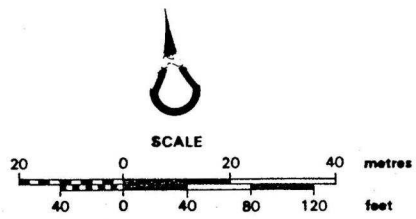
Cost — £2,700

Type of drain — Horseshoe drain and

Open reinforced concrete drain

Dimensions — Horseshoe — 7'6" x 10'0"

Open reinforced concrete — 3'0" x 4'1"



Extension to culvert at McLean St. (4320/9)

Date of issue — 13.2.51

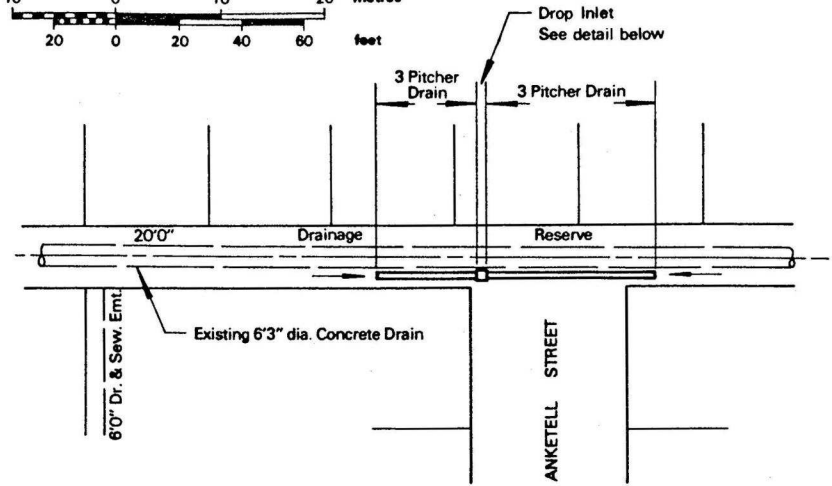
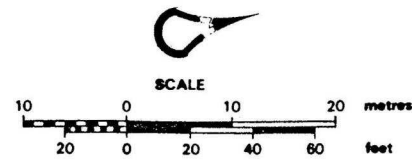
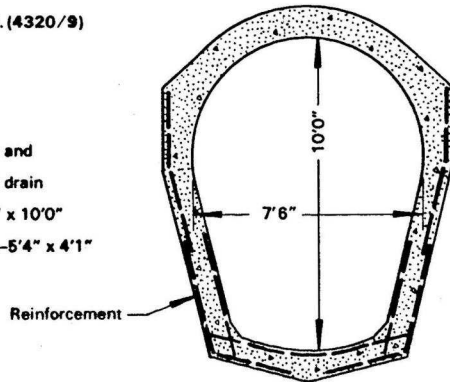
Date of completion — 1951

Cost — £5,461

Type of drain — Horseshoe drain and  
Open horseshoe drain

Dimensions — Horseshoe — 7'6" x 10'0"

Open horseshoe — 5'4" x 4'1"



Section 3 — Surface drain Anketell St. (4320/10)

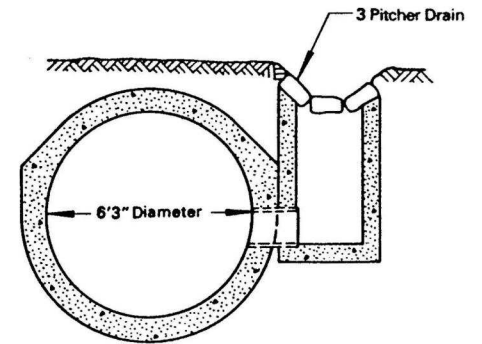
Date of issue — 26.5.59

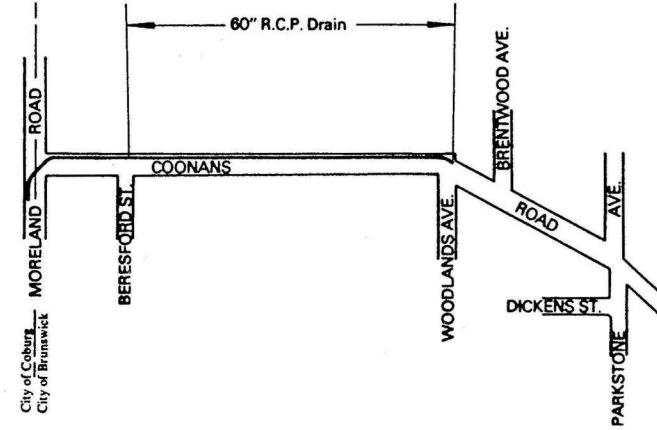
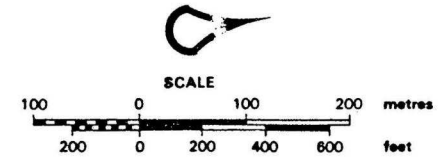
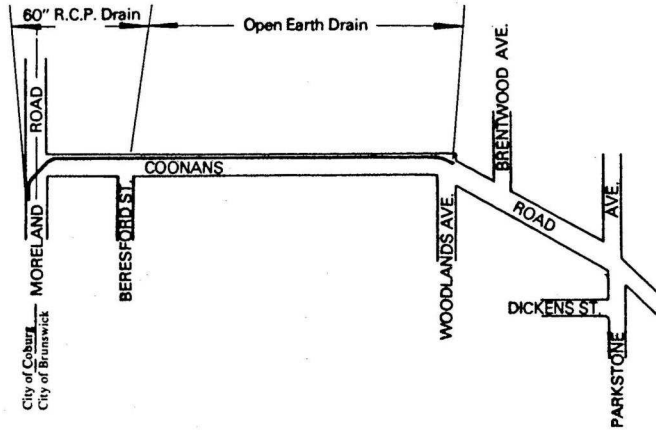
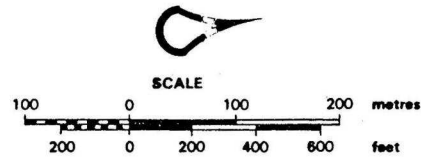
Date of completion — 30.6.59

Cost — £200 (estimated)

Type of drain — Pitcher drain

Dimensions — 2'3" x 1'0"





**Moreland Rd. to Woodlands Ave. (4325/2)**

Date of issue — 15.5.45

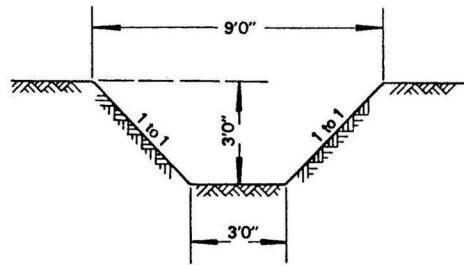
Date of completion — 18.10.45

Cost — £3,214

Type of drain — R.C. pipe and Open earth

Dimensions — R.C. pipe — 5'0" diameter

Open earth — 3'0" base width



**Beresford St. to Woodlands Ave. (4325/3)**

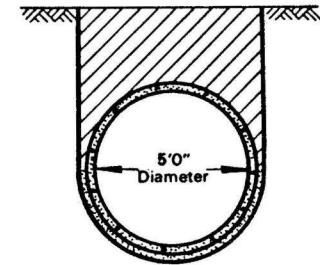
Date of issue — 23.7.46

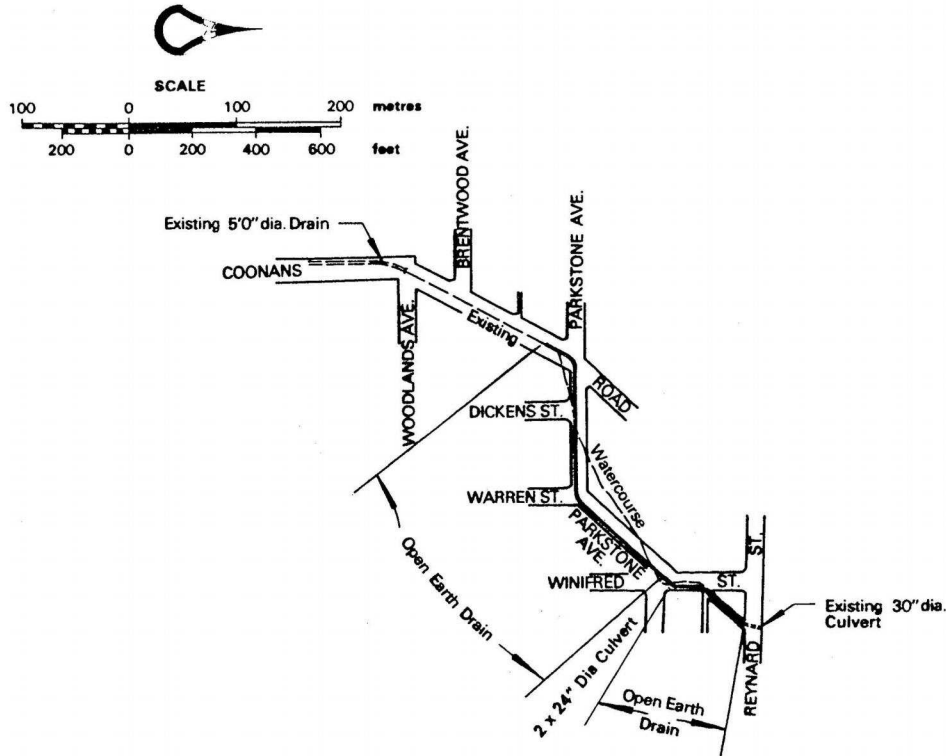
Date of completion — 1947

Cost — £3,991

Type of drain — R.C. pipe

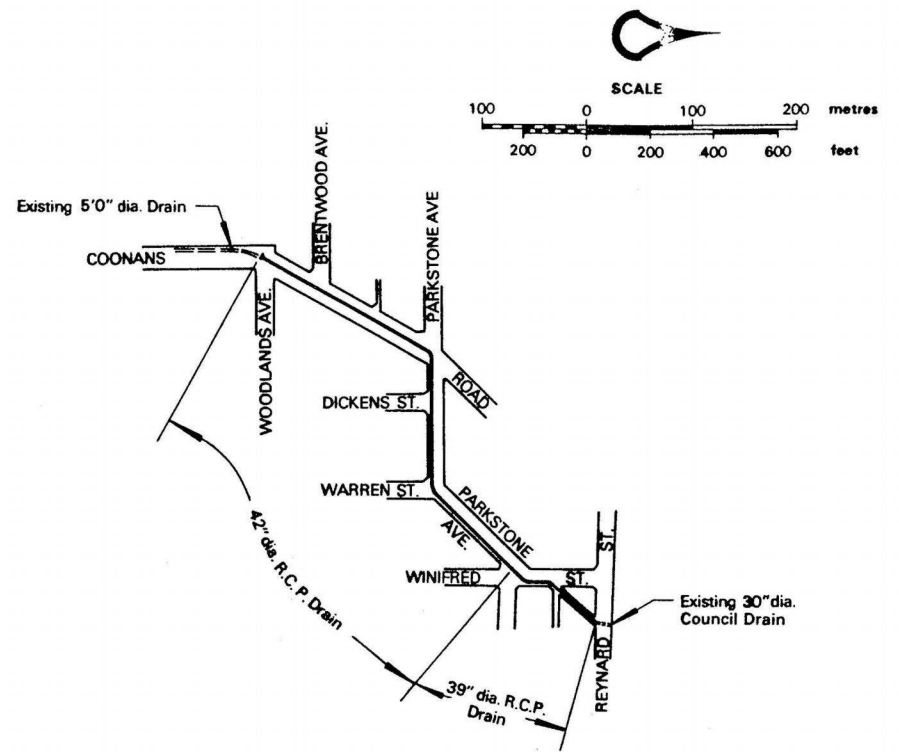
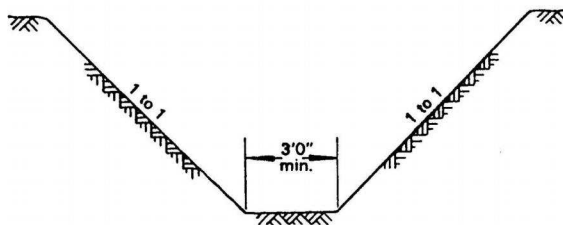
Dimensions — 5'0" diameter





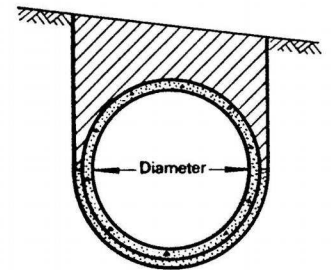
**Coonans Rd. to Reynard St. (4325/4)**

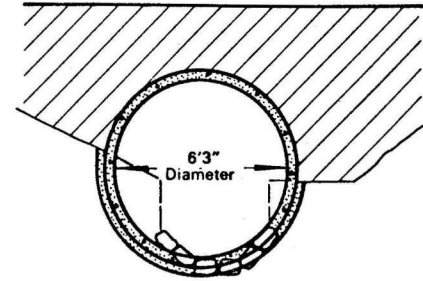
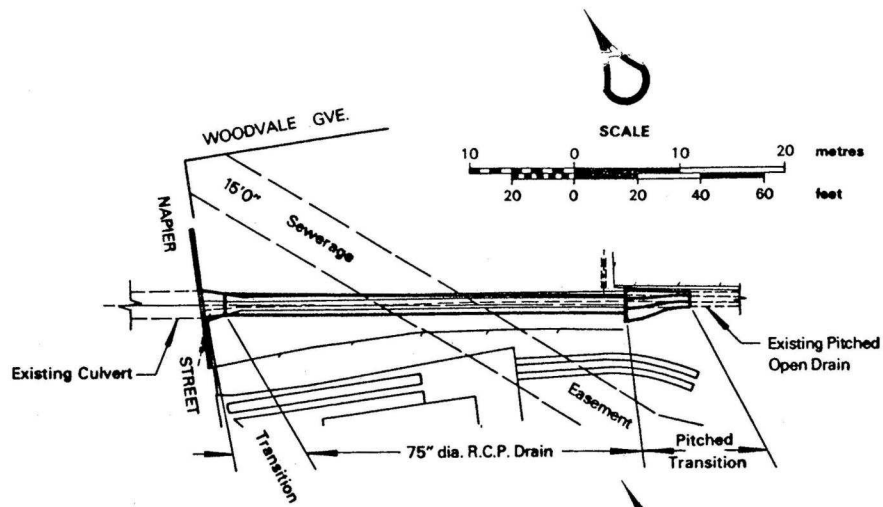
Date of issue — 22.5.52  
 Date of completion — Mid 1952  
 Cost — £473  
 Type of drain — Open earth drain  
 Dimensions — 3'0" base width



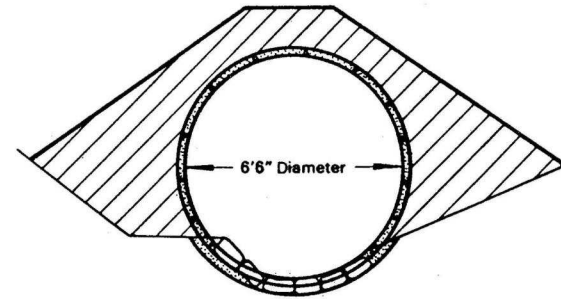
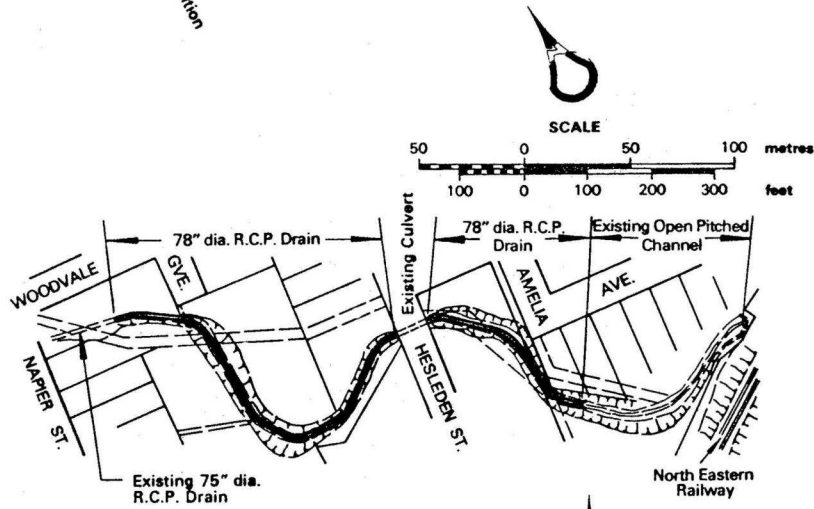
**Undergrounding — Coonans Rd. to Reynard St. (4325/5)**

Date of issue — 1.5.53  
 Date of completion — Late 1953  
 Cost — £8,114  
 Type of drain — R.C. pipe  
 Dimensions — 3'3" to 3'6" diameter

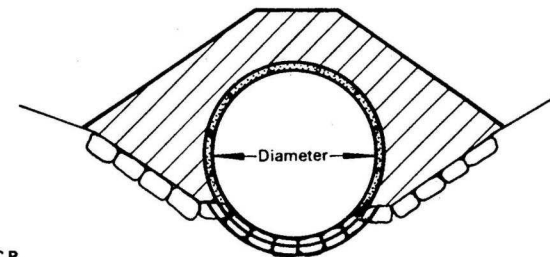
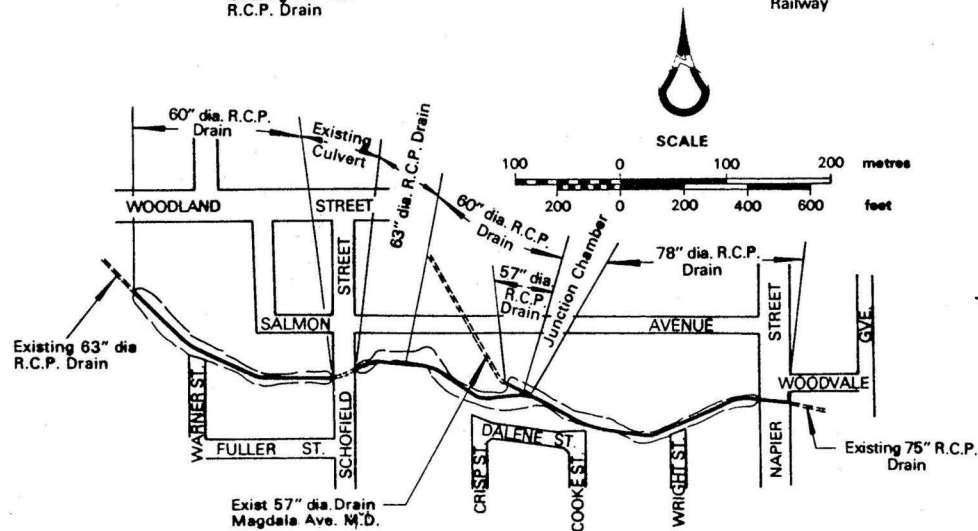




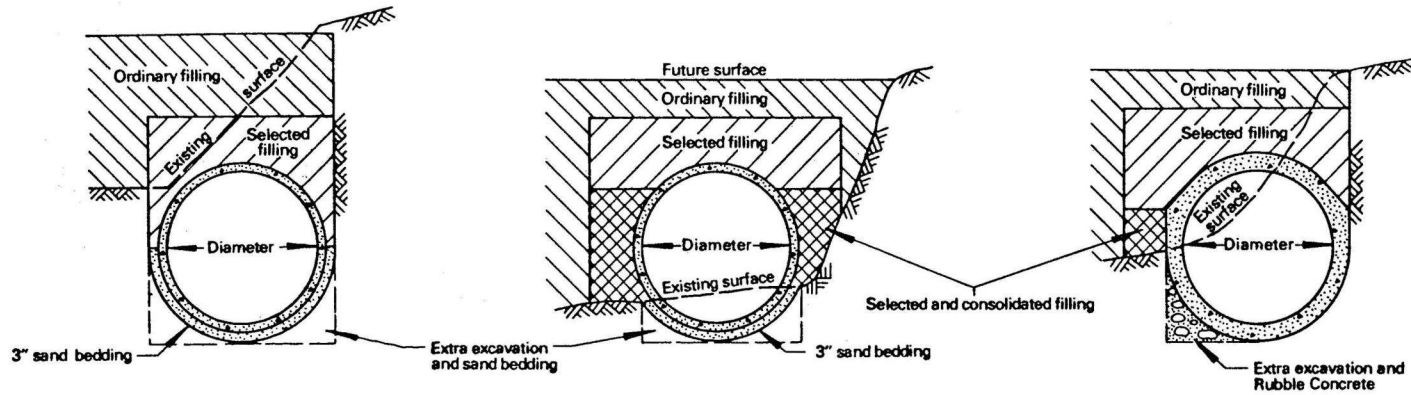
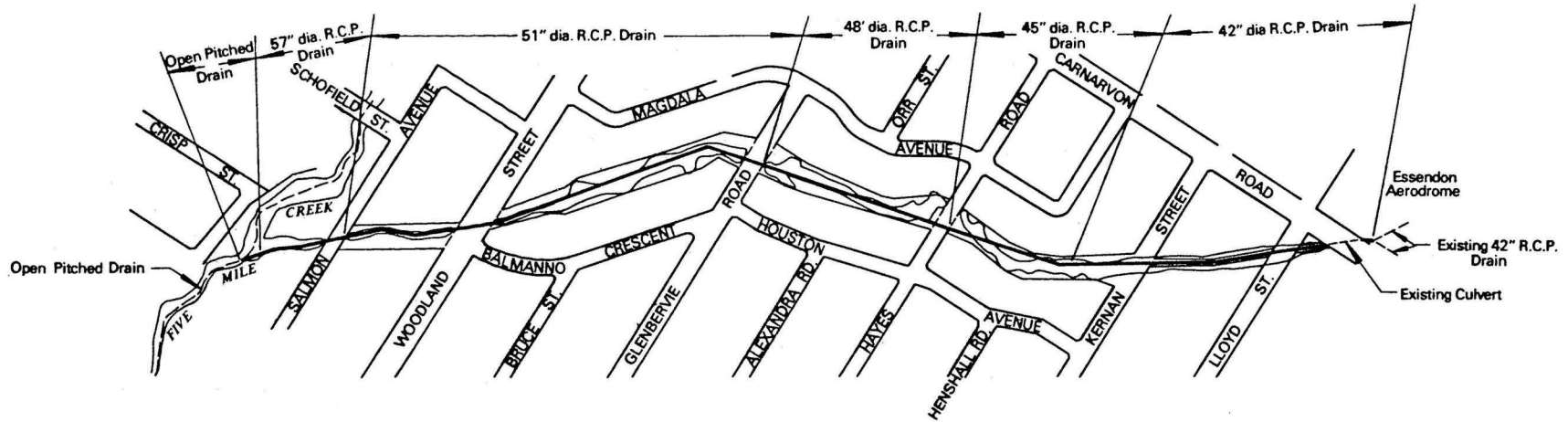
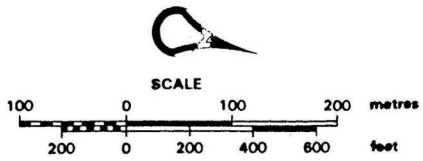
**Extension east of Napier St. (4330/7)**  
 Date of issue — 29.4.59  
 Date of completion — 20.6.59  
 Cost — £2,100 (preliminary estimate)  
 Type of drain — R.C. pipe  
 Dimensions — 6'3" diameter



**Railway to Napier St. (4330/8)**  
 Date of issue — 5.7.66  
 Date of completion — 16.9.66  
 Cost — \$34,449  
 Type of drain — R.C. pipe  
 Dimensions — 6'6" diameter



**Napier St. to Woodlands Park (4330/9)**  
 Date of issue — 1.9.66  
 Date of completion — 24.7.67  
 Cost — \$75,309 (final estimate)  
 Type of drain — R.C. pipe  
 Dimensions — 4'9" to 6'6" diameter



Undergrounding — Five Mile Creek to Carnarvon Rd. (4331/2)

Date of issue — 1949

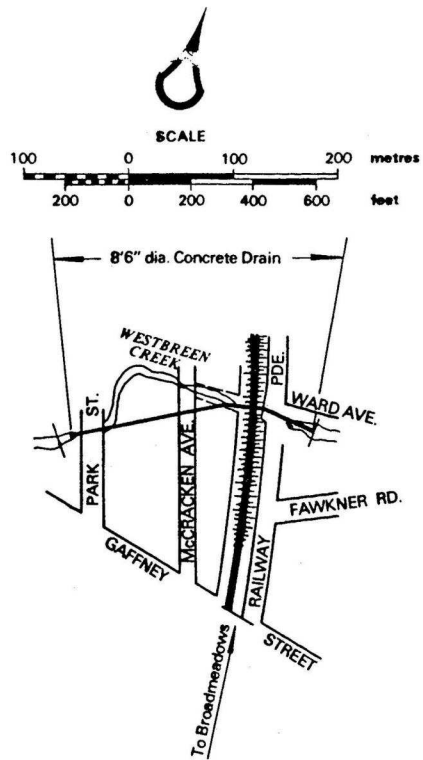
Date of completion — 1950

Cost — £19,121

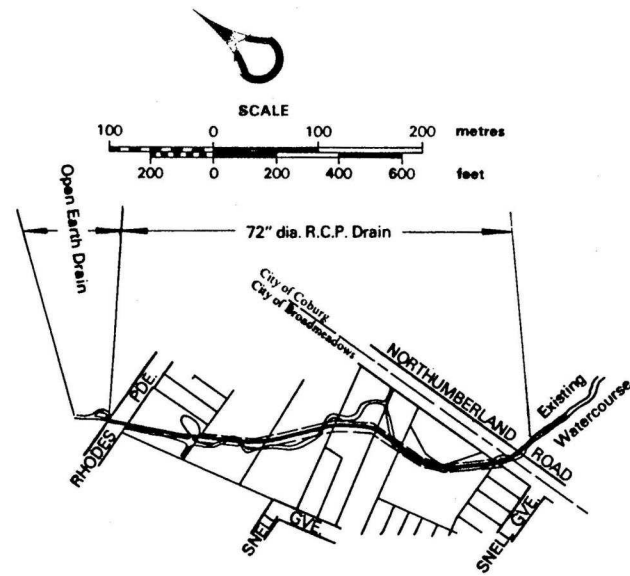
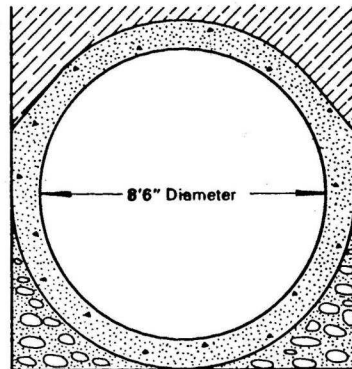
Type of drain — R.C. pipe and Open pitching

Dimensions — 3'6" to 4'9" diameter

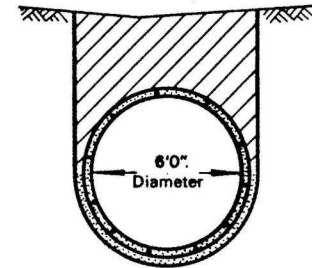


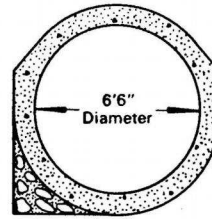
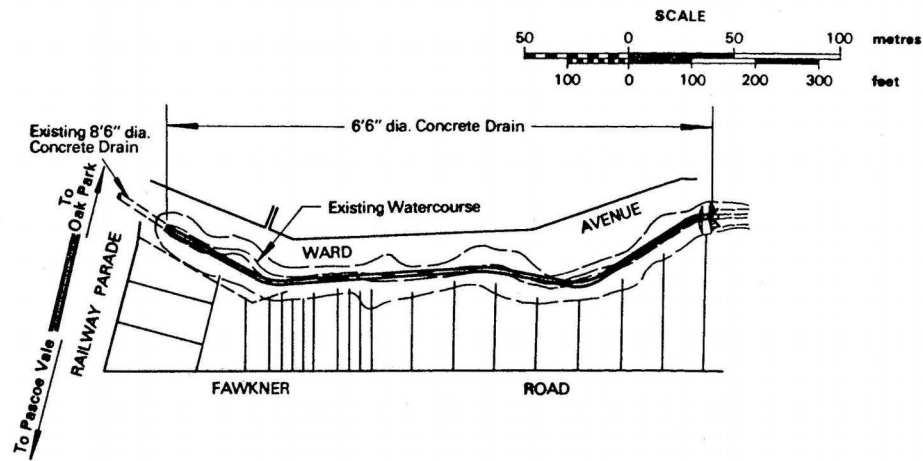


**Park St. to Railway Pde (4340/2)**  
 Date of issue — 1952  
 Date of completion — 1952  
 Cost — £31,830 (estimated)  
 Type of drain — Concrete  
 Dimensions — 8'6" diameter



**Undergrounding — Northumberland Rd. to Rhodes Pde (4340/3)**  
 Date of issue — 1.12.58  
 Date of completion — 16.6.59  
 Cost — £26,860 (estimated)  
 Type of drain — R.C. pipe  
 Dimensions — 6'0" diameter





Undergrounding — Upstream of Railway Pde (4340/5)

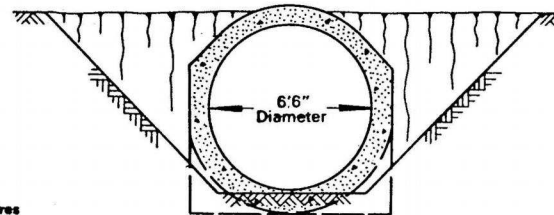
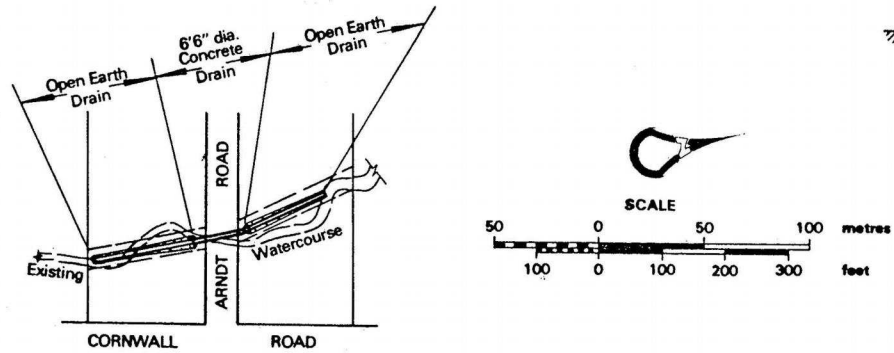
Date of issue — 6.4.62

Date of completion — 20.11.62

Cost — £14,846 (estimated)

Type of drain — Concrete

Dimensions — 6'6" diameter



Culvert at Arndt Rd. (4340/6)

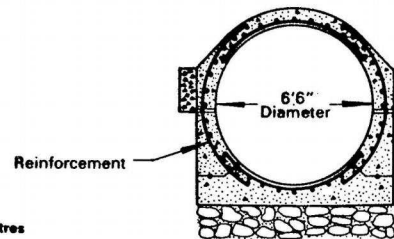
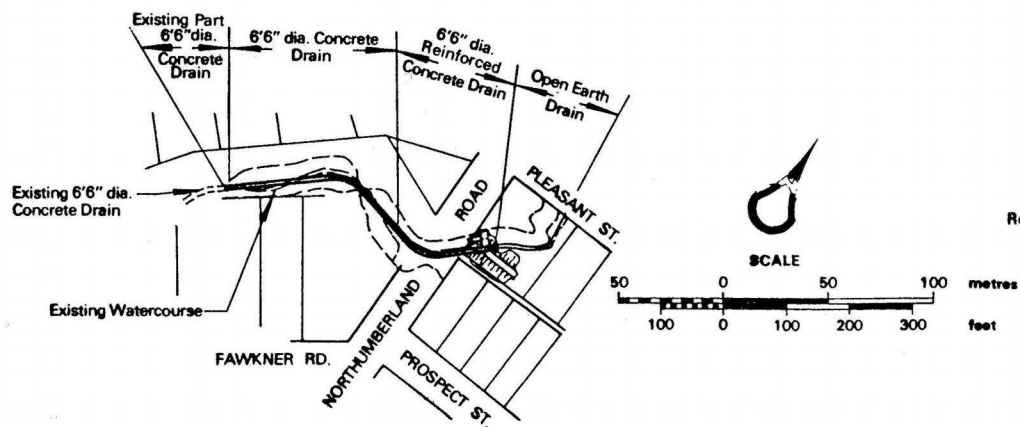
Date of issue — 30.11.62

Date of completion — 27.3.63

Cost — £3,355

Type of drain — Concrete and Open Earth

Dimensions — 6'6" diameter



Undergrounding — Pleasant St. to West of

Northumberland Rd. (4340/7)

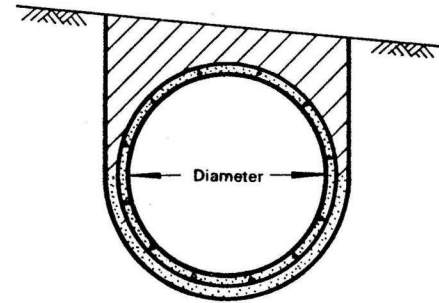
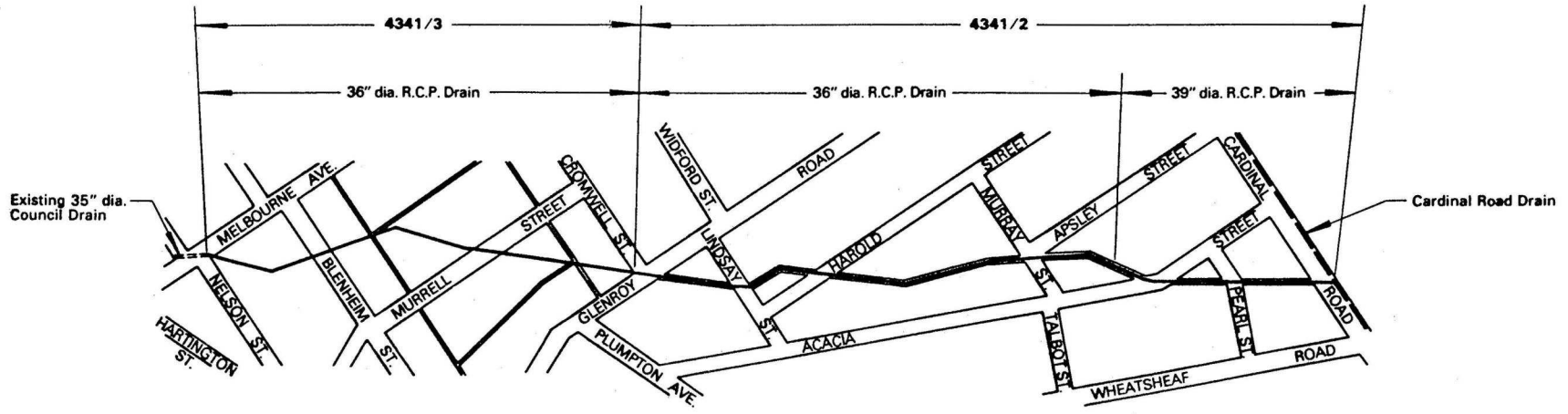
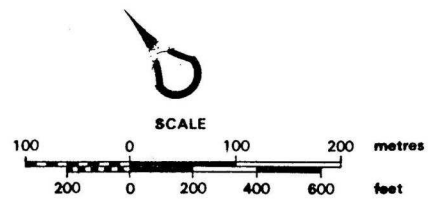
Date of issue — 14.2.67

Date of completion — 17.10.67

Cost — \$32,679

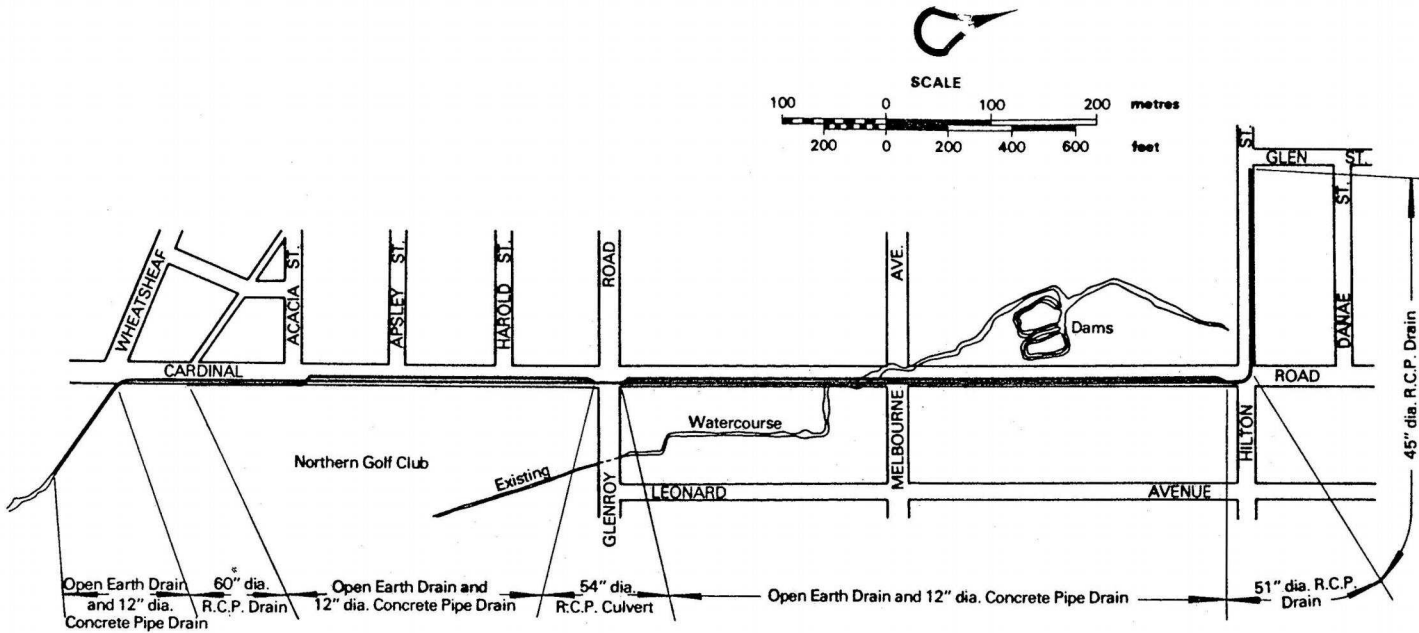
Type of drain — R.C. pipe Concrete and Open Earth

Dimensions — 6'6" diameter

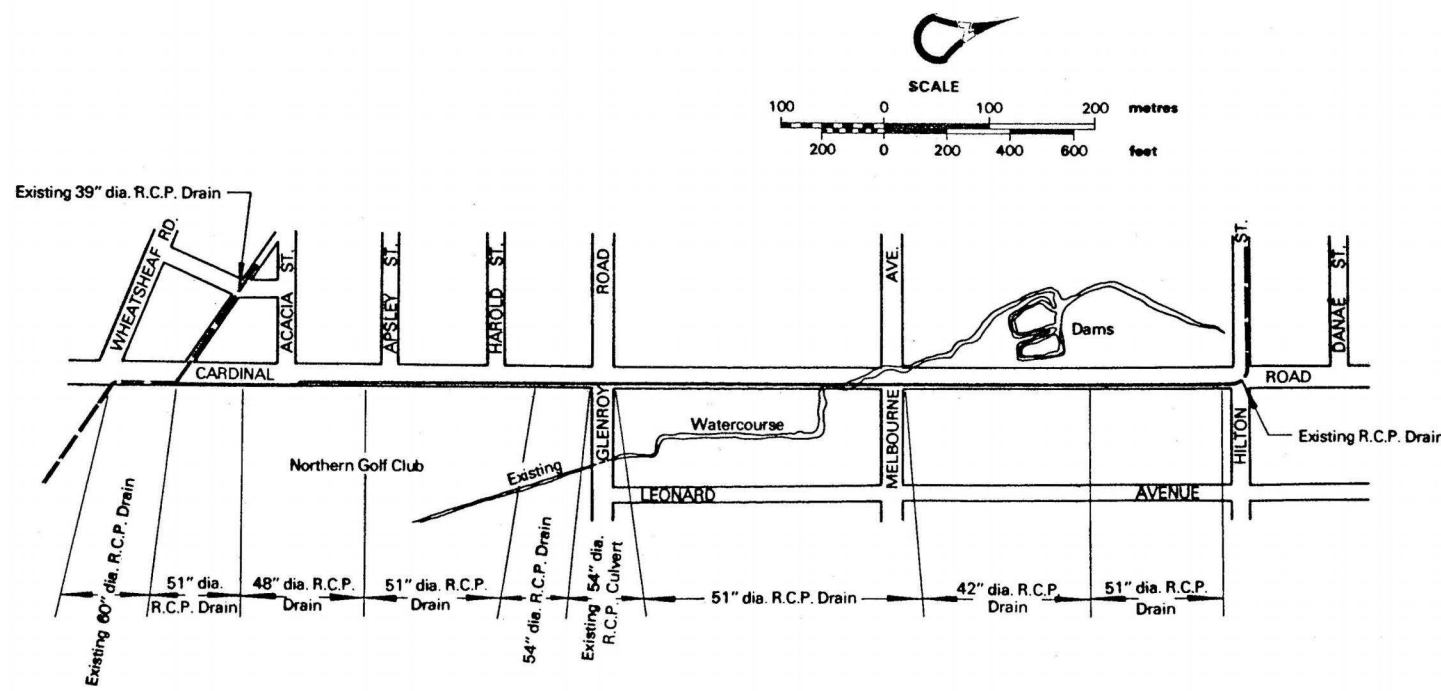
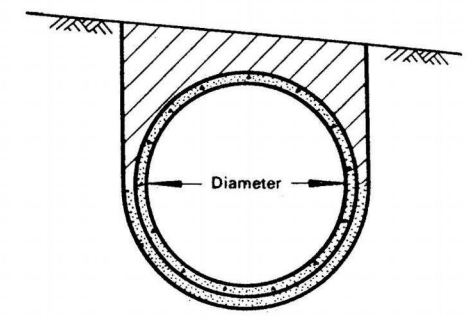


**Undergrounding — Glenroy Rd. to Melbourne Ave. (4341/3)**  
 Date of issue — 3.10.55  
 Date of completion — 1956  
 Cost — £11,958  
 Type of drain — R.C. pipe  
 Dimensions — 3'0" diameter

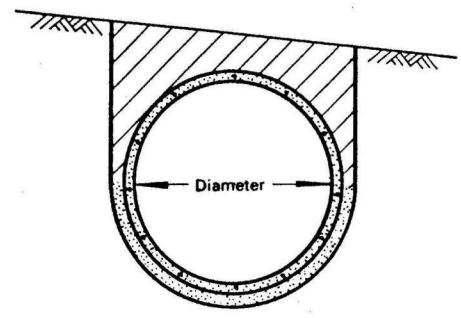
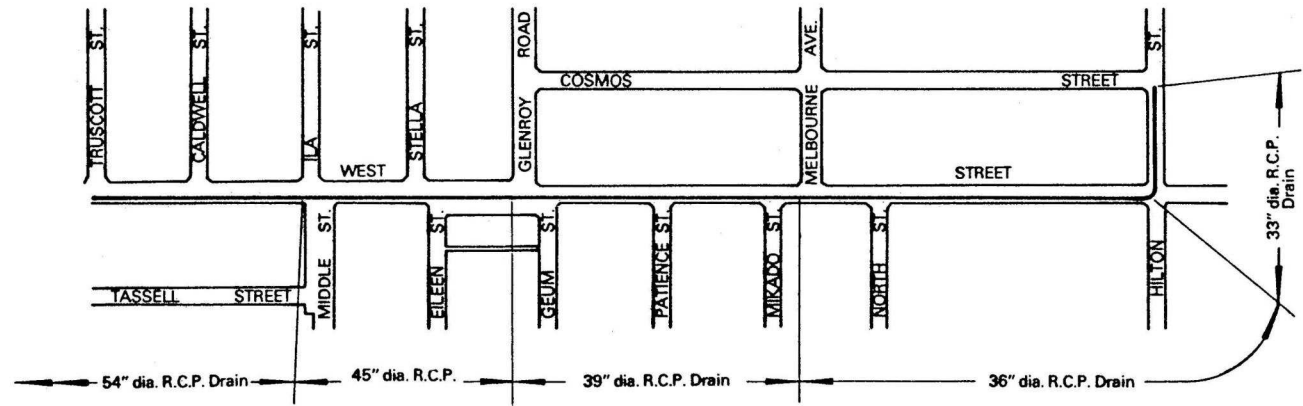
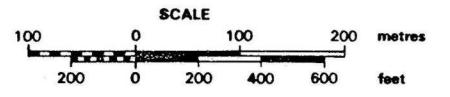
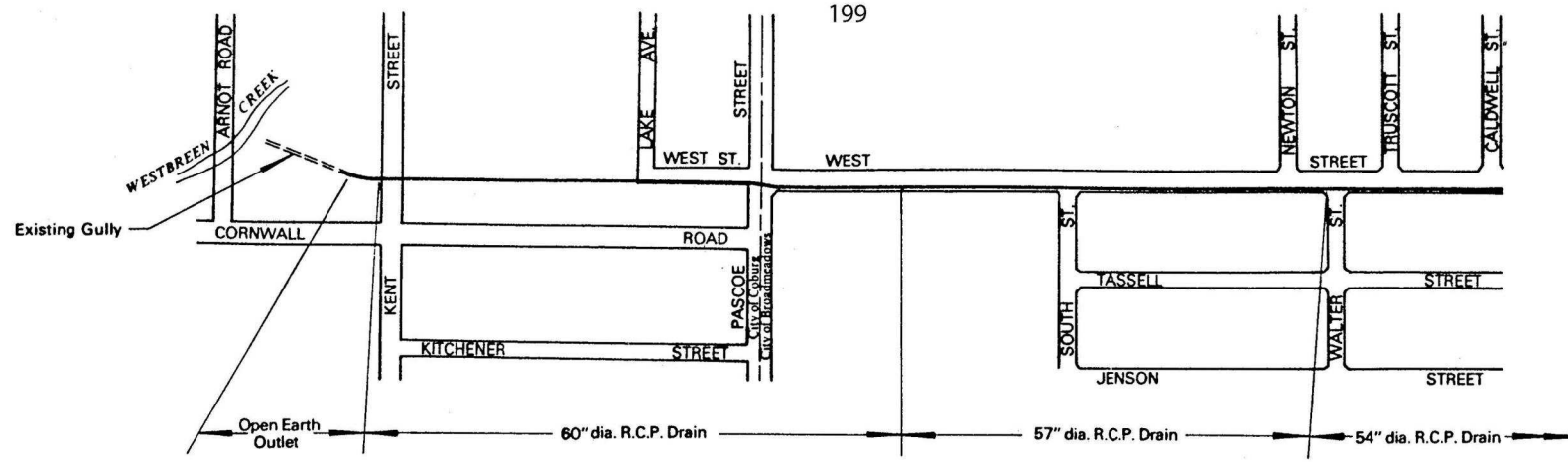
**Cardinal Rd. to Glenroy Rd. (4341/2)**  
 Date of issue — 3.6.54  
 Date of completion — Late 1954  
 Cost — £4,030  
 Type of drain — R.C. pipe  
 Dimensions — 3'0" to 3'3" diameter



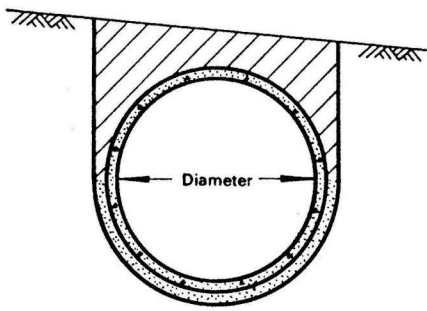
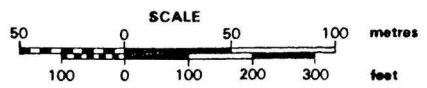
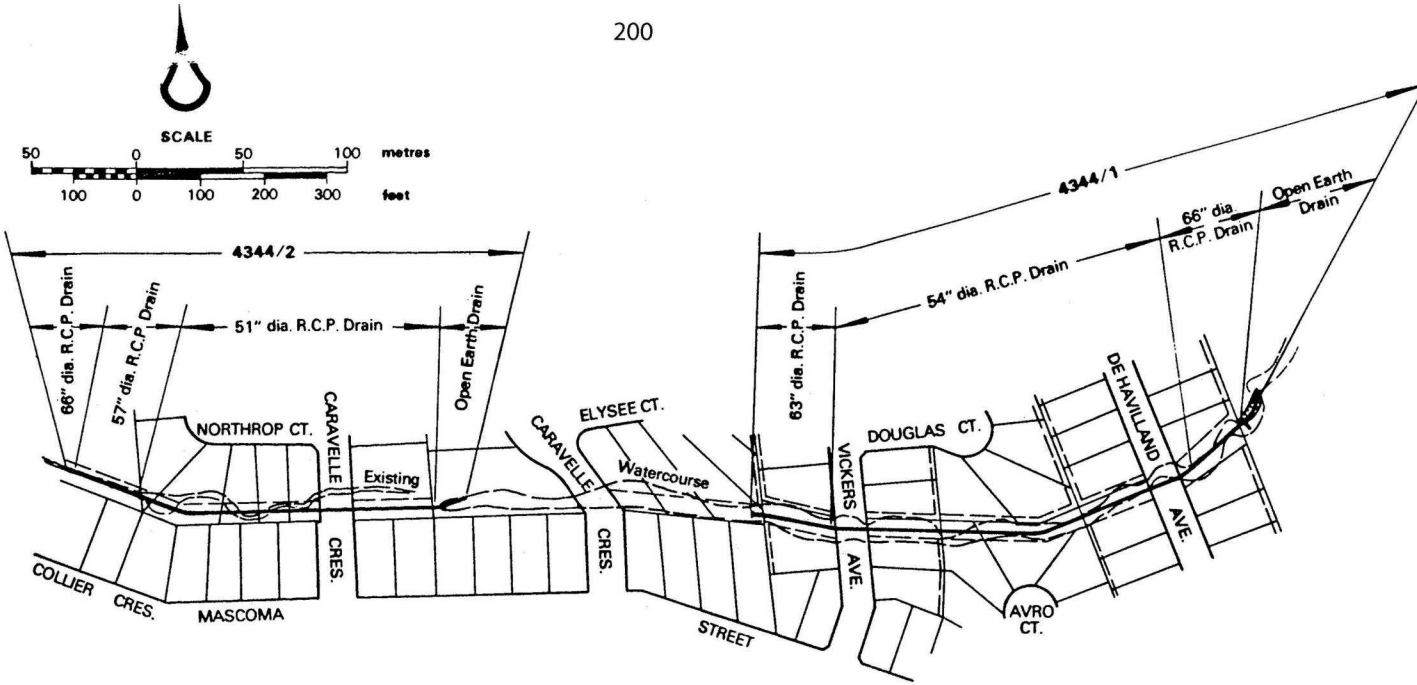
**Cardinal Rd. to Glen St. (4342/1)**  
 Date of issue — 3.6.54  
 Date of completion — 18.11.54  
 Cost — £22,011 (contract price)  
 Type of drain — R.C. pipe and concrete  
 Dimensions — R.C. pipe — 3'9" to 5'0" diameter  
 Concrete — 12" diameter



**Acacia St. to Hilton St. (4342/2)**  
 Date of issue — 5.12.56  
 Date of completion — 1957  
 Cost — £19,089  
 Type of drain — R.C. pipe  
 Dimensions — 3'6" to 4'6" diameter

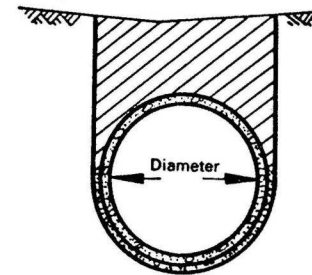
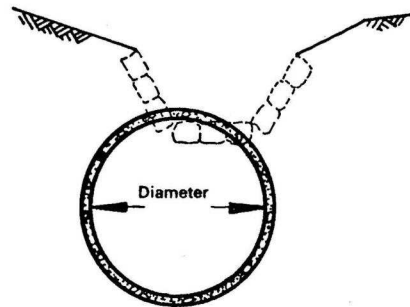
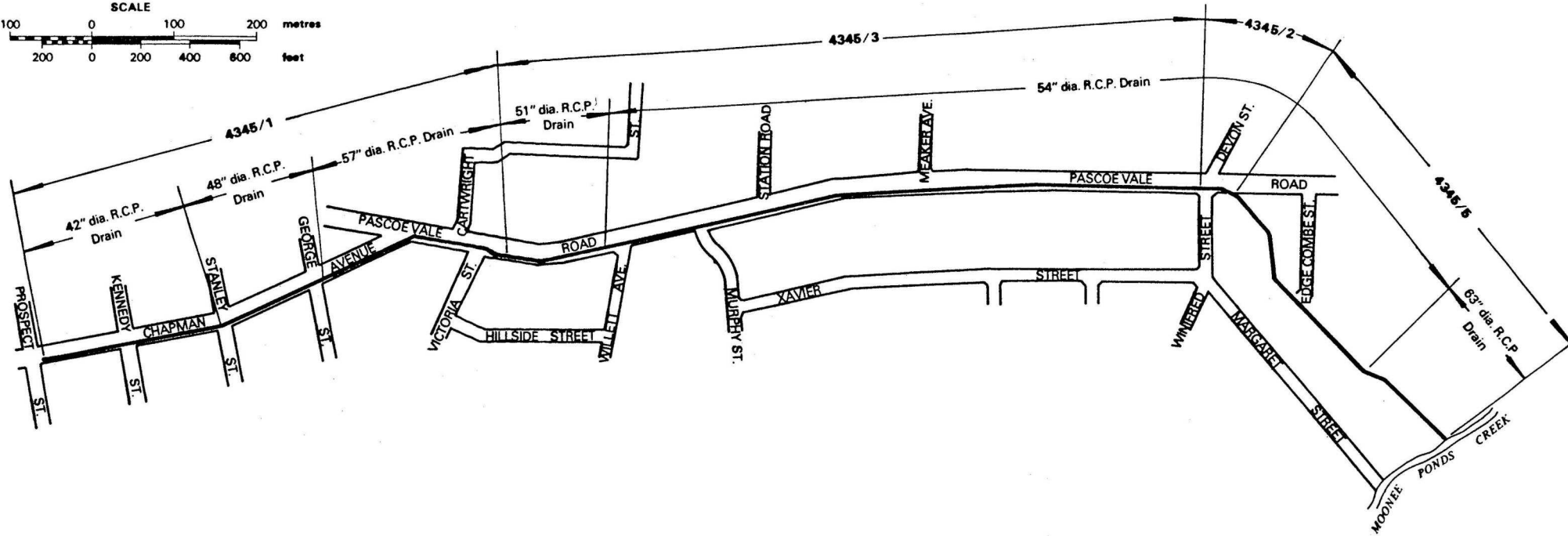
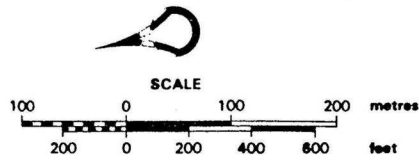


**Undergrounding — Westbreen Creek to Hilton St. (4343/1)**  
 Date of issue — 11.1.55  
 Date of completion — 22.9.55  
 Cost — £59,569  
 Type of drain — R.C. pipe  
 Dimensions — 2'9" to 5'0" diameter



**Caravelle Cres. to Board's Drainage Limit (4344/2)**  
 Date of issue — 17.8.66  
 Date of completion — 18.11.66  
 Cost — \$11,438  
 Type of drain — R.C. pipe  
 Dimensions — 4'3" to 5'6" diameter

**De Havilland Ave. to Vickers Ave. (4344/1)**  
 Date of issue — 25.6.65  
 Date of completion — 4.10.65  
 Cost — \$18,982  
 Type of drain — R.C. pipe  
 Dimensions — 4'6" to 5'6" diameter

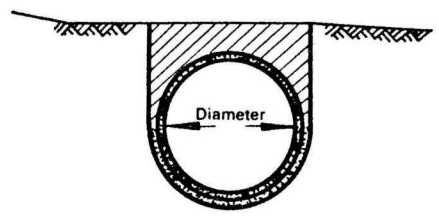
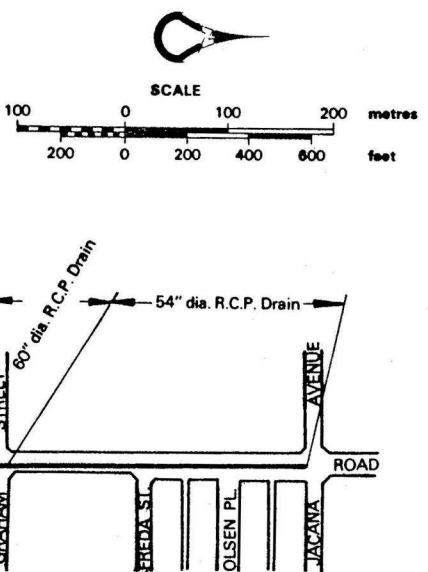
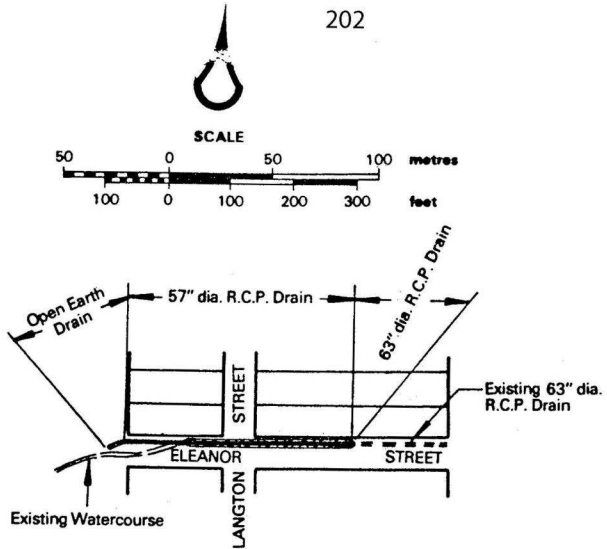
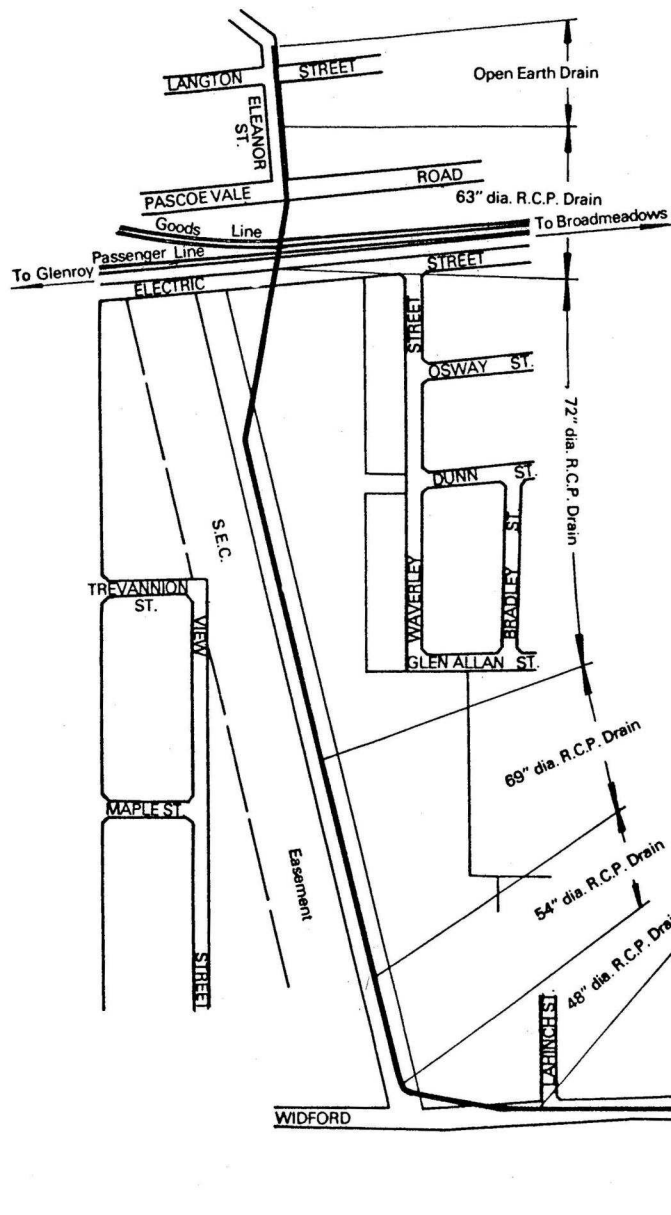


**Undergrounding — Victoria St. to Prospect St. (4345/1)**  
 Date of issue — 6.1.53  
 Date of completion — July 1953  
 Cost — £15,464  
 Type of drain — R.C. pipe and Open pitching  
 Dimensions — 3'6" to 4'9" diameter

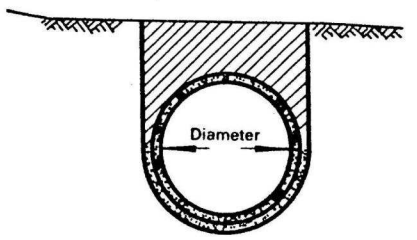
**Undergrounding — Winifred St. to Victoria St. (4345/3)**  
 Date of issue — 11.11.57  
 Date of completion — 18.6.58  
 Cost — £20,188 (estimated)  
 Type of drain — R.C. pipe  
 Dimensions — 4'3" to 4'6" diameter

**Culvert at Winifred St. (4345/2)**  
 Date of issue — 23.2.55  
 Date of completion — 1955  
 Cost — Unknown  
 Type of drain — R.C. pipe  
 Dimensions — 4'6" diameter

**Moonee Ponds Creek to Pascoe Vale Rd. (4345/5)**  
 Date of issue — 23.9.63  
 Date of completion — 10.2.64  
 Cost — £14,539  
 Type of drain — R.C. pipe  
 Dimensions — 4'6" to 5'3" diameter

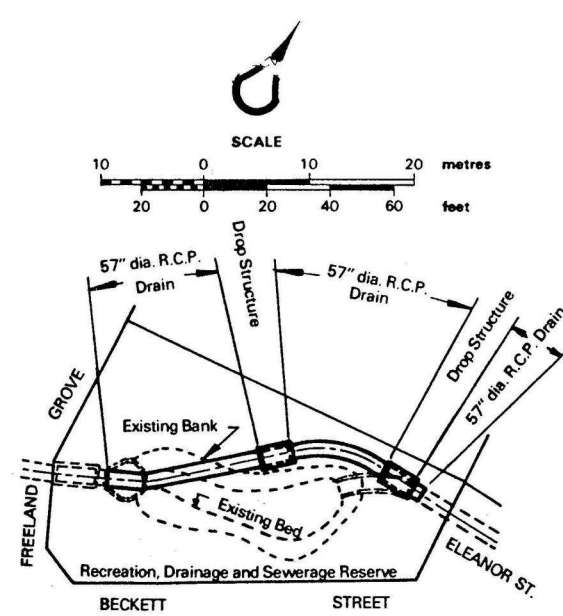
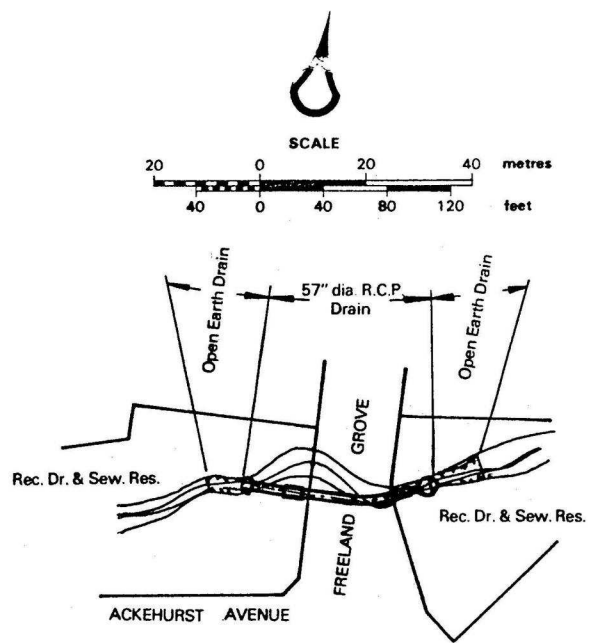


**Extension of outlet at Eleanor St. (4347/2)**  
 Date of issue — 19.3.59  
 Date of completion — 15.9.59  
 Cost — £7,810  
 Type of drain R.C. pipe  
 Dimensions — 4'9" to 5'3" diameter



**Eleanor St. to Jacana Ave. (4347/1)**  
 Date of issue — 30.9.55  
 Date of completion — Unknown  
 Cost — £80,696 (final estimate)  
 Type of drain — R.C. pipe and Open earth  
 Dimensions — 4'0" to 6'0" diameter





**Culvert at Freeland Gve. (4347/3)**

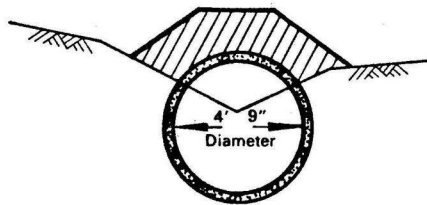
Date of issue — 28.5.62

Date of completion — 30.8.62

Cost — £2,996

Type of drain — R.C. pipe

Dimensions — 4'9" diameter



**Eleanor St. to Freeland Gve. (4347/5)**

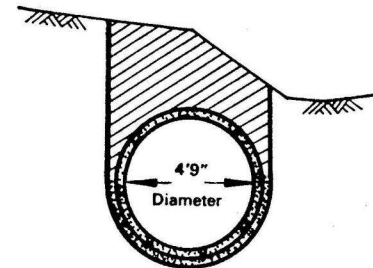
Date of issue — 30.5.63

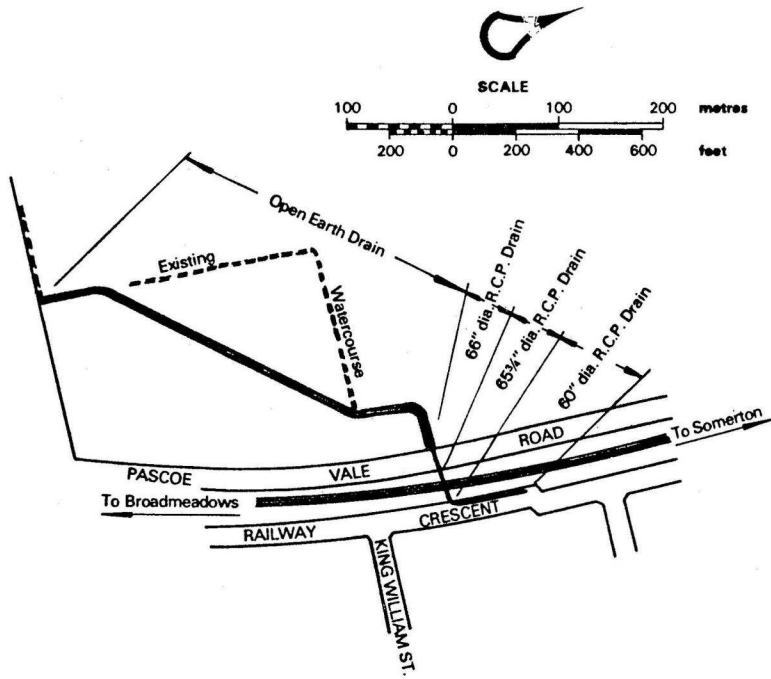
Date of completion — 30.8.63

Cost — £3,257

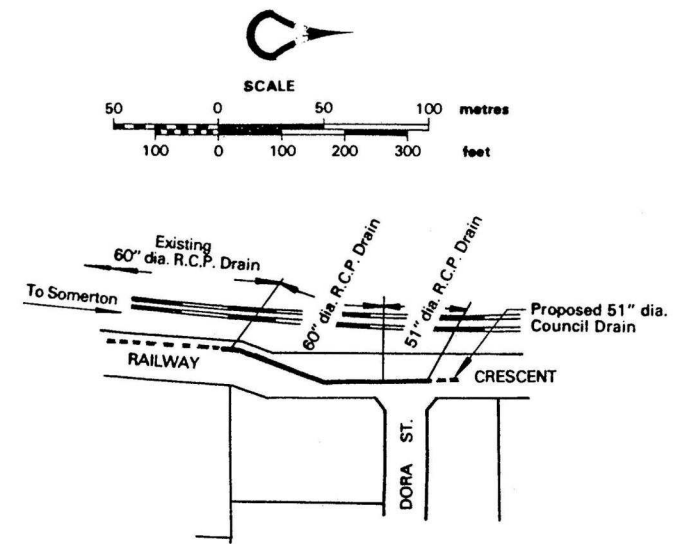
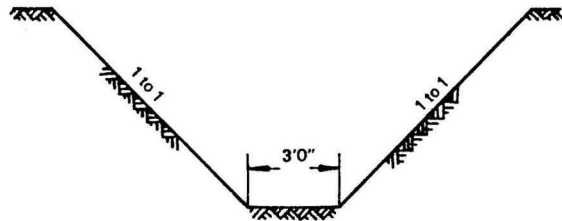
Type of drain — R.C. pipe

Dimensions — 4'9" diameter

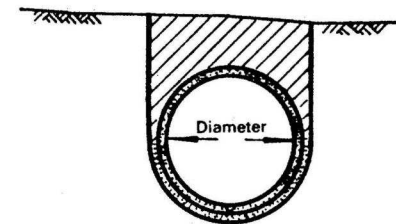




**Pascoe Vale Rd. to Railway Cres. (4348/1)**  
 Date of issue — 21.7.59  
 Date of completion — 1.12.59  
 Cost — £19,515  
 Type of drain — R.C. pipe and Open earth  
 Dimensions — 5'0" to 5'6" diameter

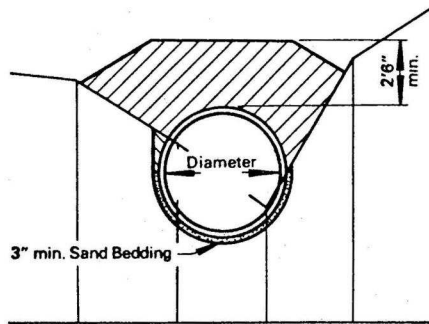
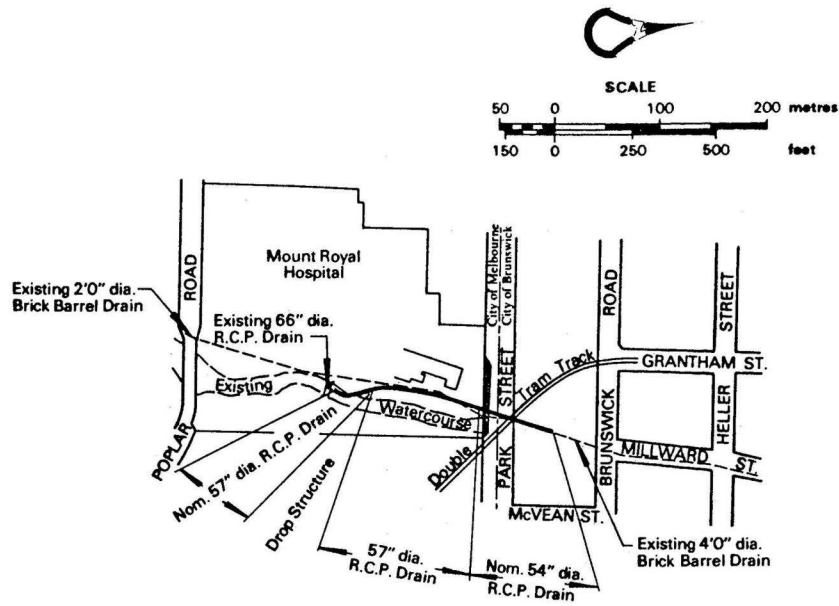


**Railway Cres to Dora St. (4348/2)**  
 Date of issue — 17.11.60  
 Date of completion — 3.2.61  
 Cost — £5,919  
 Type of drain — R.C. pipe  
 Dimensions — 4'3" to 5'0" diameter



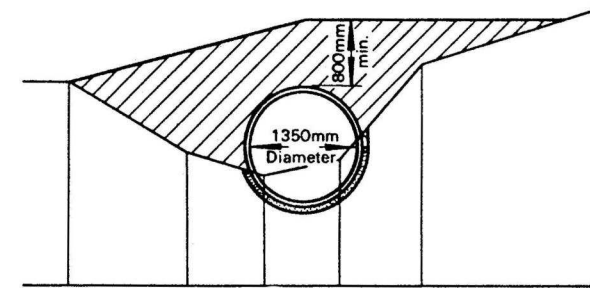
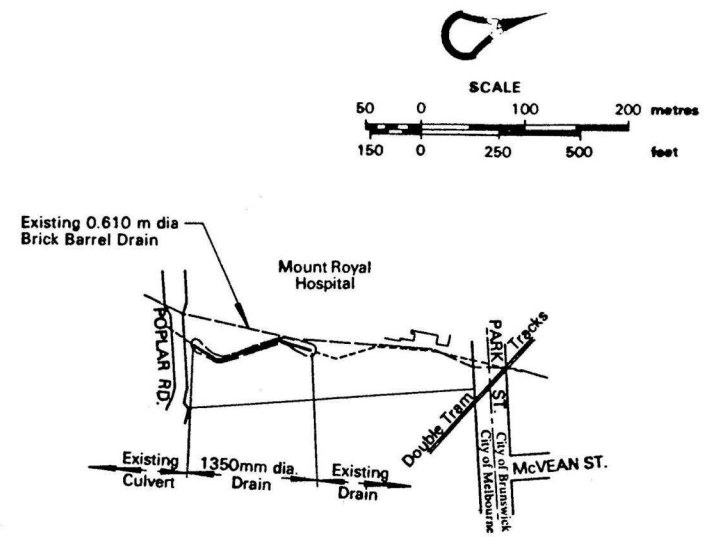
## **APPENDIX D**

**Works on Tributaries, Post 1967:  
Detailed Locality Plans, Type Sections and Details of Works.**



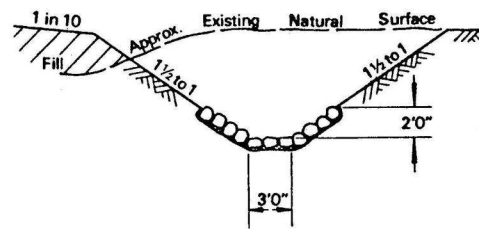
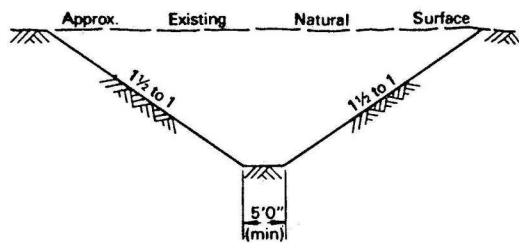
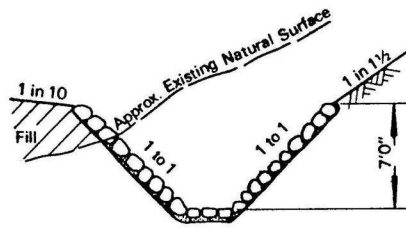
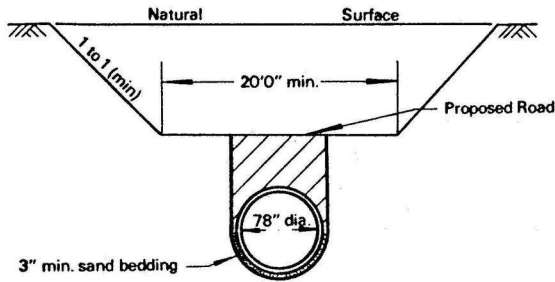
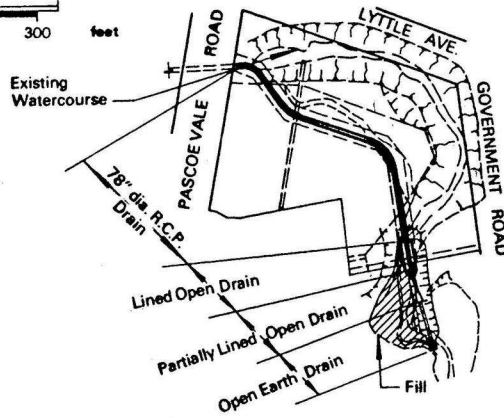
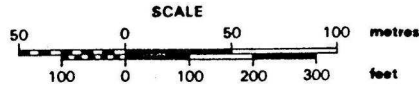
**Undergrounding Through Mount Royal Hospital (4313/7)**

Date of issue — 29.1.70  
 Date of completion — 29.7.70  
 Cost — \$35 413  
 Type of drain — R.C. pipe  
 Dimensions — 4'6" to 4'9" diameter



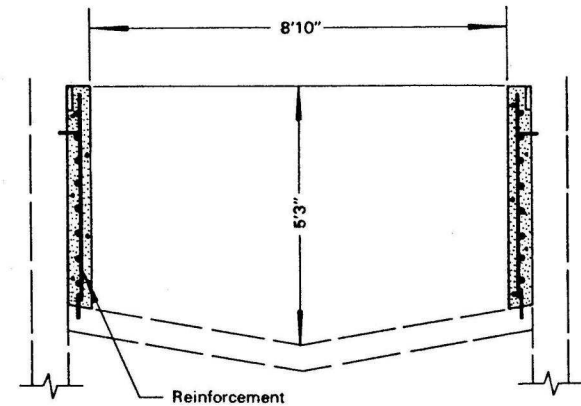
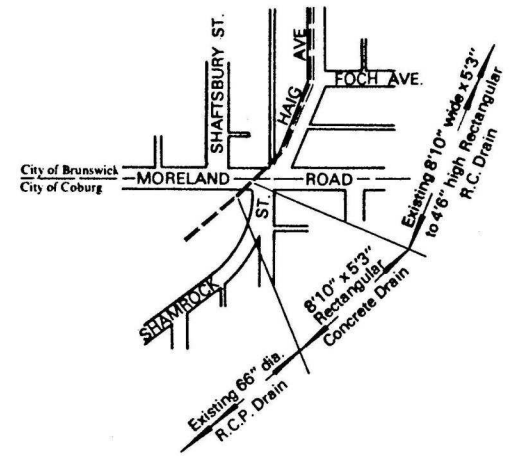
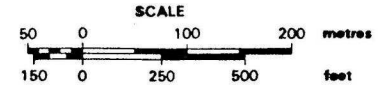
**Undergrounding Upstream of Poplar Rd. (4313/8)**

Date of issue — 1.7.77  
 Date of completion — 22.8.77  
 Cost — \$33,820  
 Type of drain — R.C. pipe  
 Dimensions — 1350 mm diameter



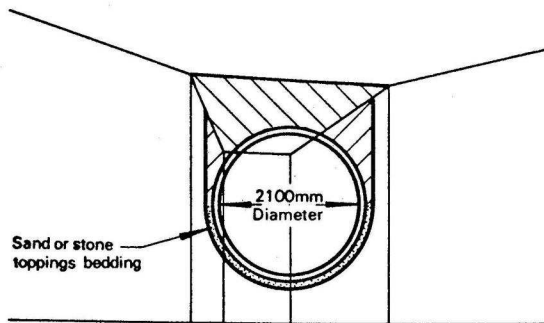
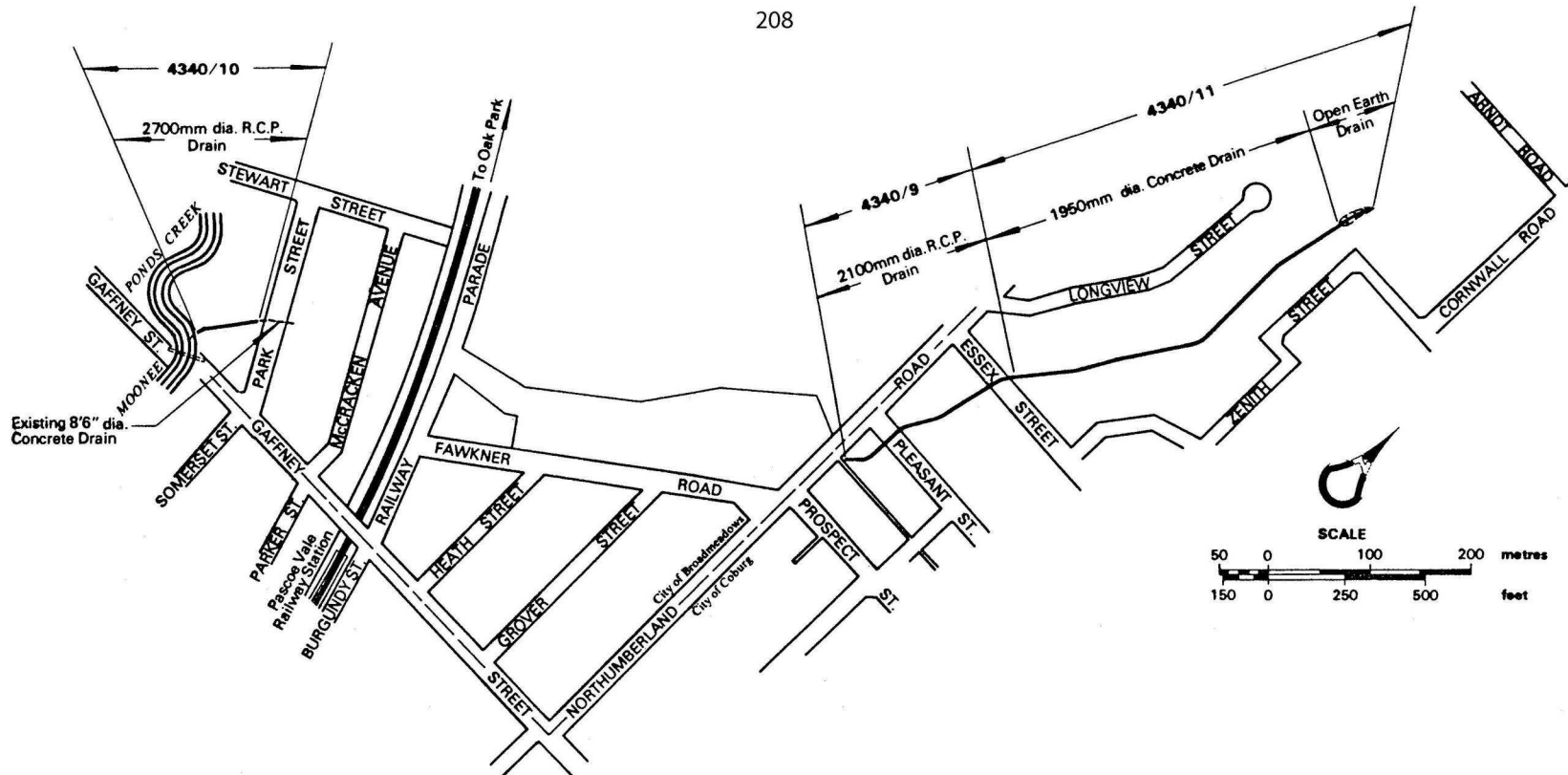
**Undergrounding — East of Pascoe Vale Rd. (4330/10)**  
 Date of issue — 14.2.72  
 Date of completion — 14.7.72  
 Cost — \$35,517  
 Type of drain — R.C. pipe, lined, partially lined  
 and Open earth channel  
 Dimensions — R.C. pipe 6'6" diameter

**FIVE MILE CREEK MAIN DRAIN — No. 4330**

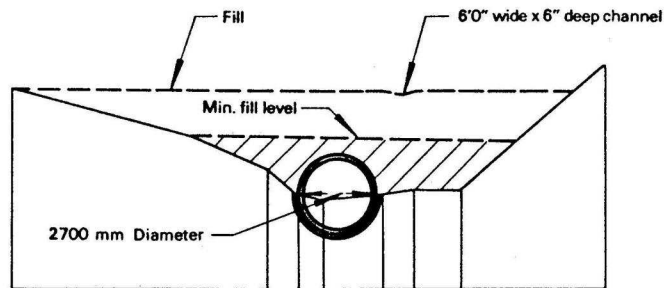


**Reconstruction south of Moreland Rd. (4320/14)**  
 Date of issue — 3.5.72  
 Date of completion — 22.9.72  
 Cost — \$24,747  
 Type of drain — Rectangular concrete  
 Dimensions — 8'10" x 5'3"

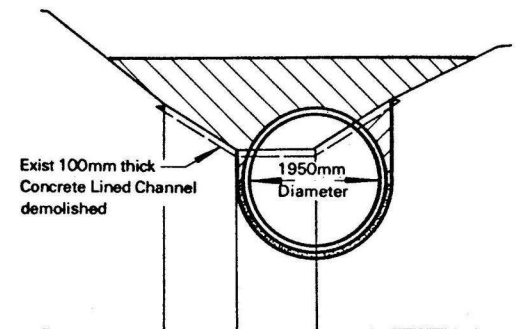
**MELVILLE MAIN DRAIN — No. 4320**



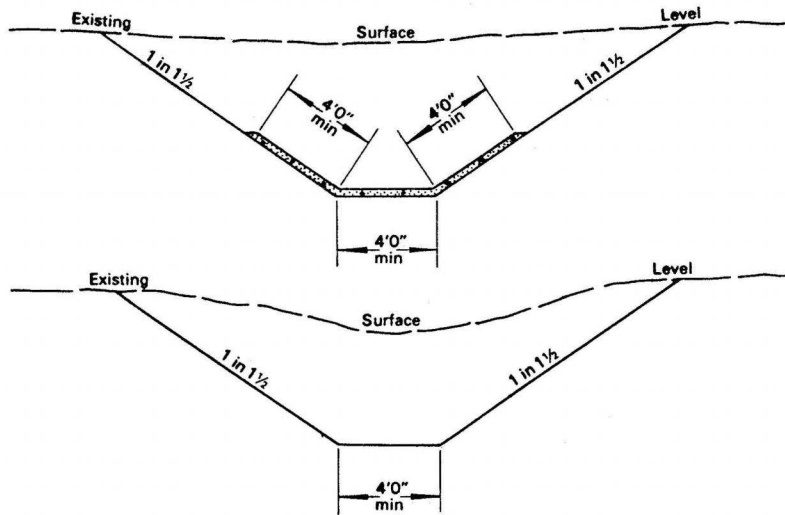
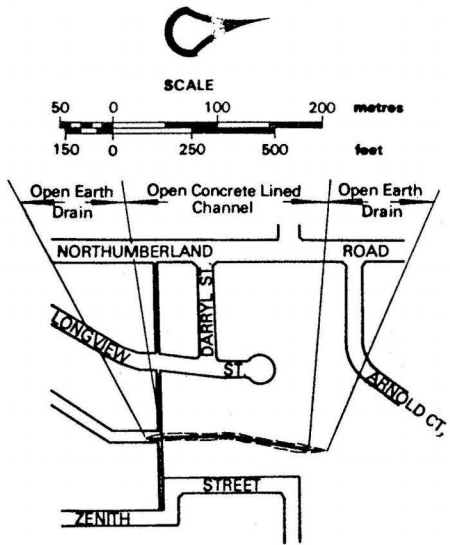
**Undergrounding – Northumberland Rd. to Essex St. (4340/9)**  
 Date of issue – 27.2.76  
 Date of completion – 19.5.76  
 Cost – \$77,947  
 Type of drain – R.C. pipe  
 Dimensions – 2100 mm diameter



**Moonsee Ponds Creek to Park St. (4340/10)**  
 Date of issue – 22.4.75  
 Date of completion – Early 1977  
 Cost – \$894,866 (final estimate)  
 Type of drain – R.C. pipe  
 Dimensions – 2700 mm diameter

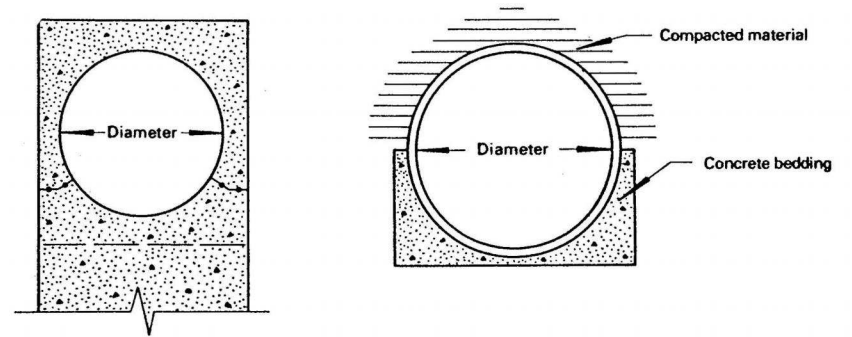
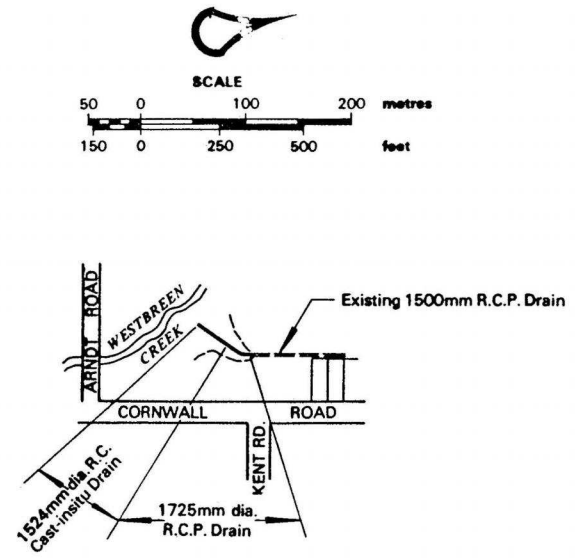


**Essex St. to south of Arndt Rd. (4340/11)**  
 Date of issue – 18.12.78  
 Date of completion – 10.8.79  
 Cost – \$252,160  
 Type of drain – Concrete  
 Dimensions – 1950 mm diameter



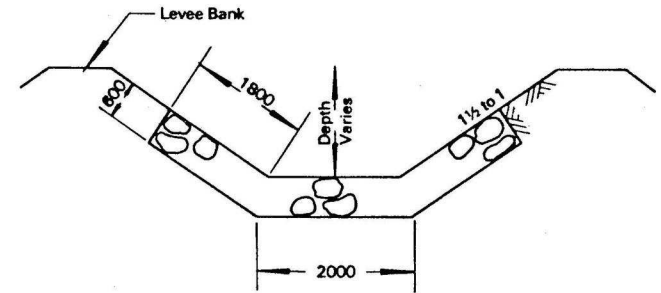
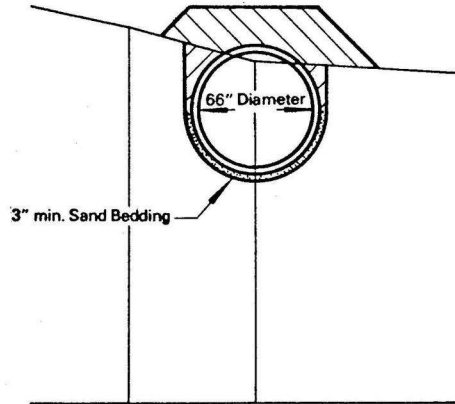
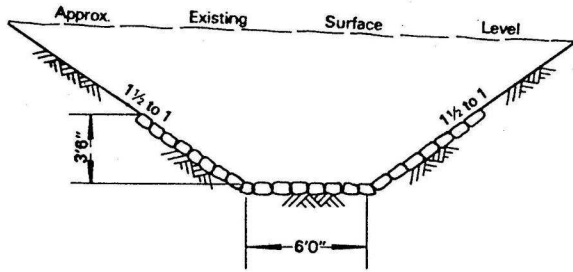
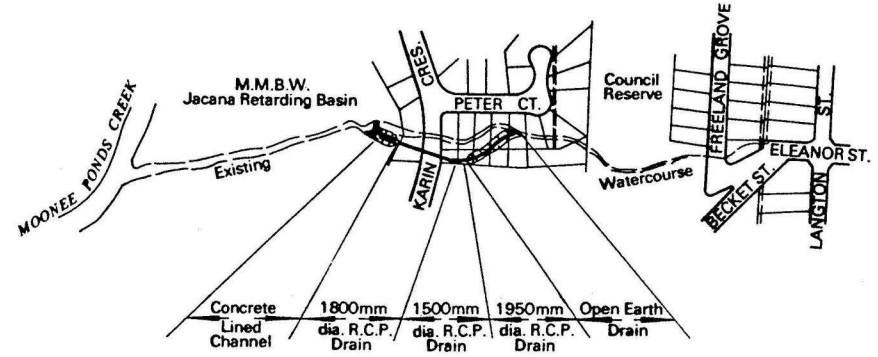
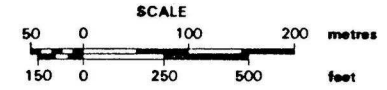
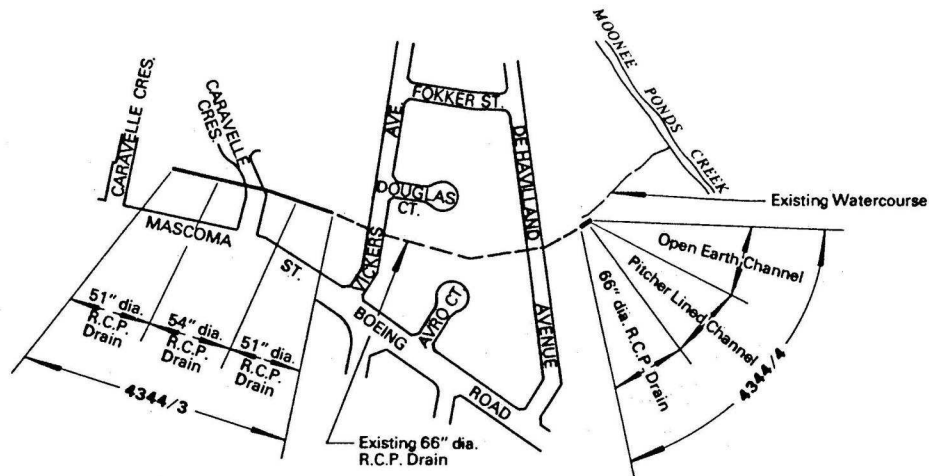
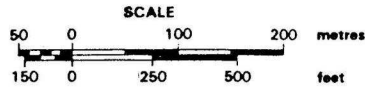
**Improvements near Darryl St. (4340/8)**  
 Date of issue — 19.9.68  
 Date of completion — 2.11.68  
 Cost — \$10,650  
 Type of drain — Concrete lined and  
 Open earth channel  
 Dimensions — 4'0" base width

**WESTBREEN CREEK — No. 4340**



**Undergrounding — within K. W. Joyce Reserve (4343/5)**  
 Date of issue — 14.4.76  
 Date of completion — 30.7.76  
 Cost — \$57,617  
 Type of drain — R.C. cast-insitu and  
 R.C. pipe  
 Dimensions — R.C. cast-insitu — 1524 mm diameter  
 R.C. pipe — 1725 mm diameter

**WEST STREET DRAIN — No. 4343**



**Vickers Ave. to Caravelle Cres. (4344/3)**

Date of issue — 1.5.69  
 Date of completion — 3.7.69  
 Cost — \$10,804  
 Type of drain — R.C. pipe  
 Dimensions — 4'3" and 4'6" diameter

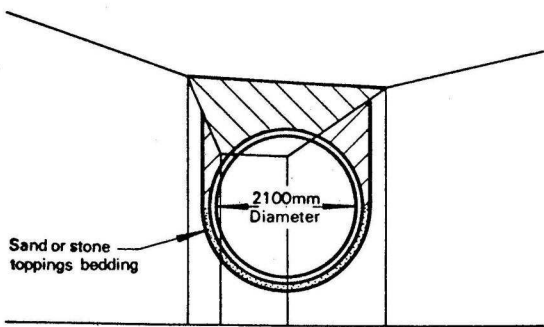
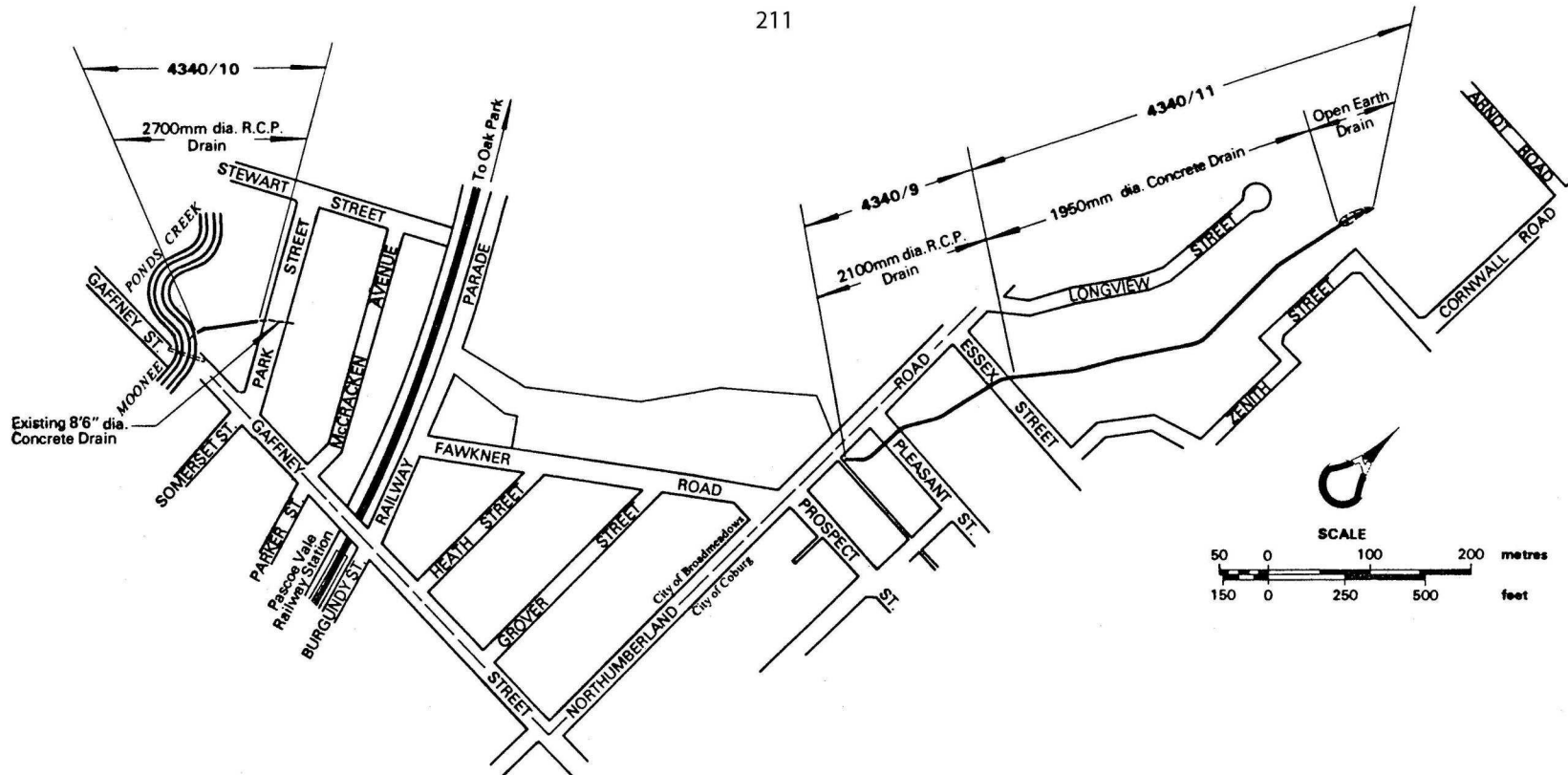
**Extension near De Havilland Ave. (4344/4)**

Date of issue — 25.11.74  
 Date of completion — 14.3.75  
 Cost — \$5,808 (final estimate)  
 Type of drain — R.C. pipe and  
 Pitcher lined channel  
 Dimensions — 5'6" diameter

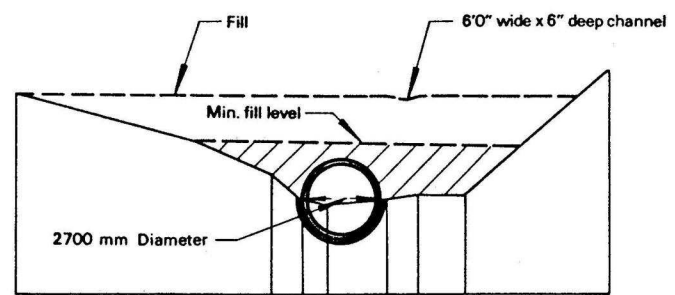
**Undergrounding — from retarding basin to Karin Cres. (4347/6)**

Date of issue — 29.3.79  
 Date of completion — 4.6.79  
 Cost — \$79,444 (estimate on contract price)  
 Type of drain — R.C. pipe and  
 Concrete lined channel  
 Dimensions — 1500 mm to 1950 mm diameter

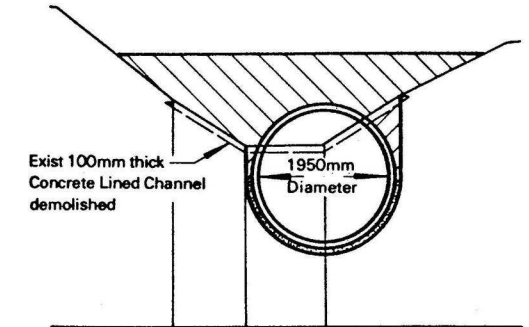




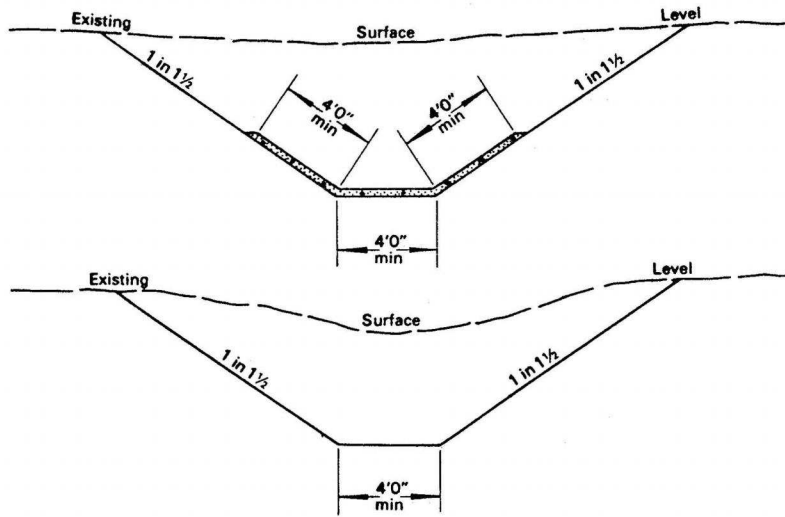
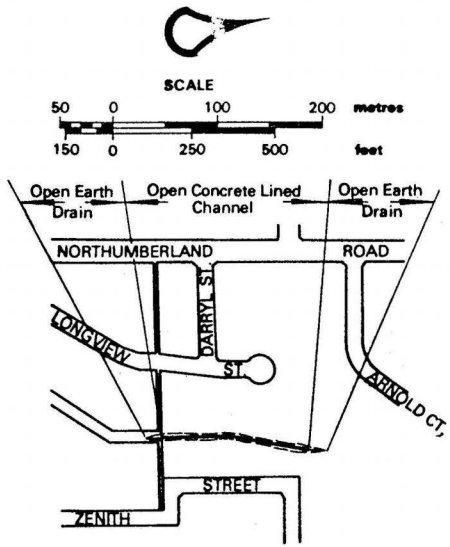
**Undergrounding — Northumberland Rd. to Essex St. (4340/9)**  
 Date of issue — 27.2.76  
 Date of completion — 19.5.76  
 Cost — \$77,947  
 Type of drain — R.C. pipe  
 Dimensions — 2100 mm diameter



**Moonee Ponds Creek to Park St. (4340/10)**  
 Date of issue — 22.4.75  
 Date of completion — Early 1977  
 Cost — \$894,866 (final estimate)  
 Type of drain — R.C. pipe  
 Dimensions — 2700 mm diameter

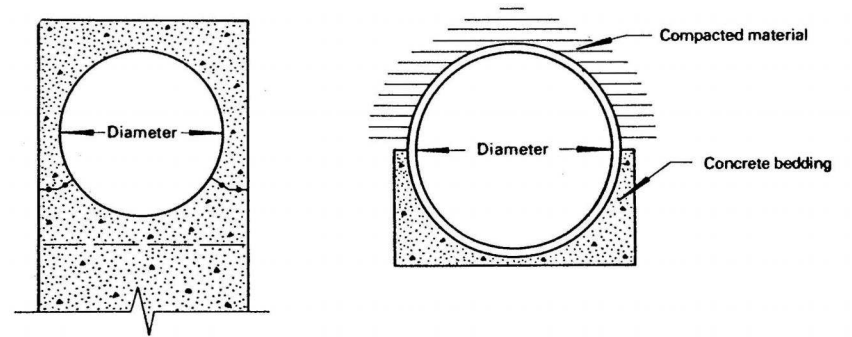
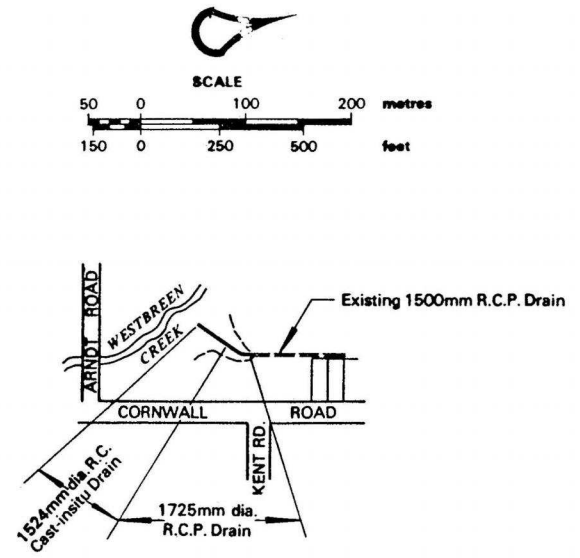


**Essex St. to south of Arndt Rd. (4340/11)**  
 Date of issue — 18.12.78  
 Date of completion — 10.8.79  
 Cost — \$252,160  
 Type of drain — Concrete  
 Dimensions — 1950 mm diameter



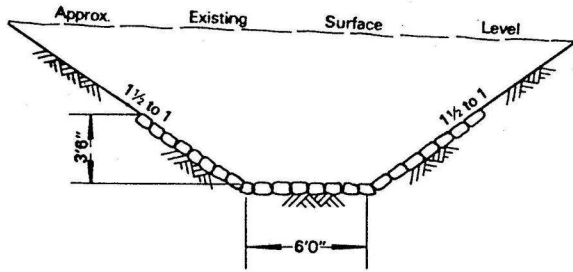
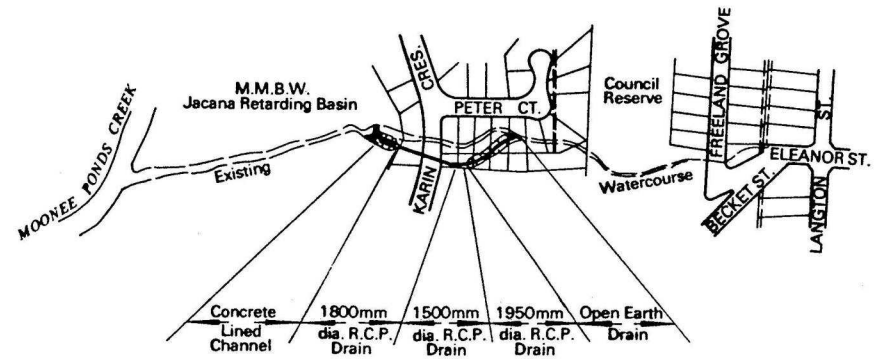
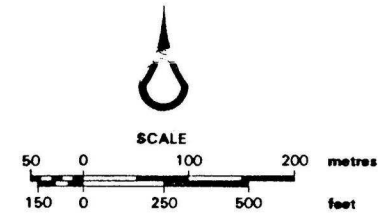
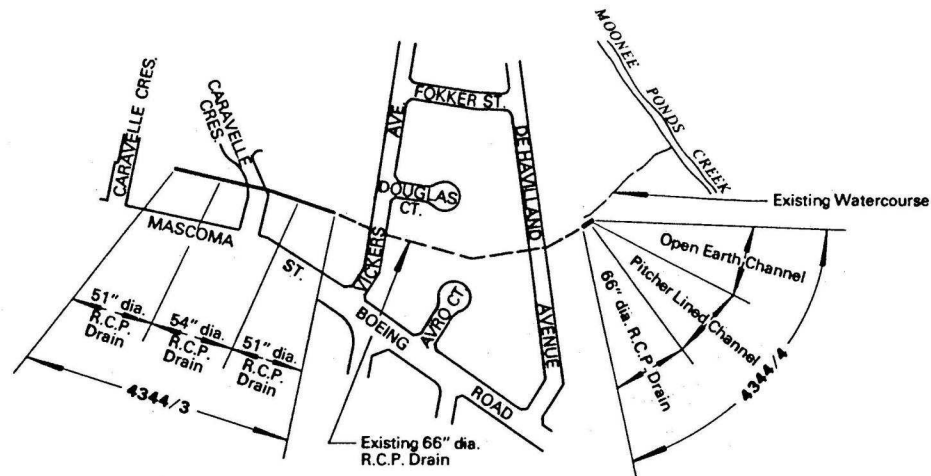
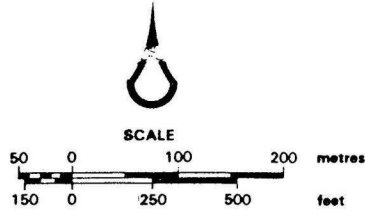
**Improvements near Darryl St. (4340/8)**  
 Date of issue — 19.9.68  
 Date of completion — 2.11.68  
 Cost — \$10,650  
 Type of drain — Concrete lined and  
 Open earth channel  
 Dimensions — 4'0" base width

**WESTBREEN CREEK — No. 4340**



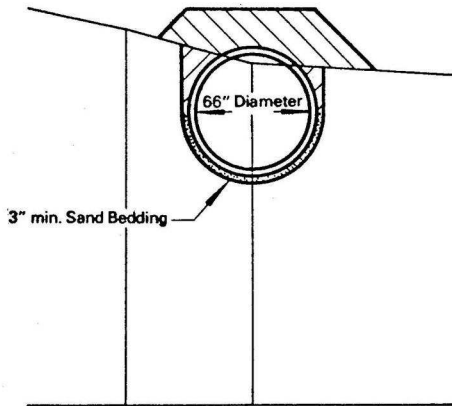
**Undergrounding — within K. W. Joyce Reserve (4343/5)**  
 Date of issue — 14.4.76  
 Date of completion — 30.7.76  
 Cost — \$57,617  
 Type of drain — R.C. cast-insitu and  
 R.C. pipe  
 Dimensions — R.C. cast-insitu — 1524 mm diameter  
 R.C. pipe — 1725 mm diameter

**WEST STREET DRAIN — No. 4343**



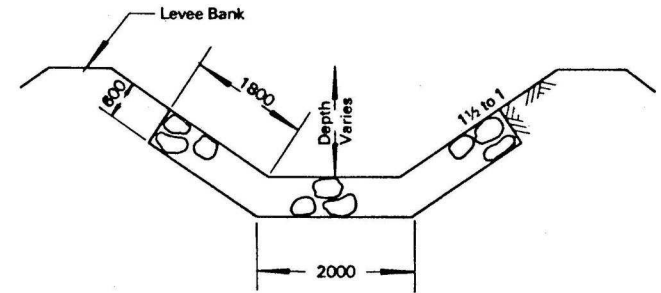
Vickers Ave. to Caravelle Cres. (4344/3)

Date of issue — 1.5.69  
Date of completion — 3.7.69  
Cost — \$10,804  
Type of drain — R.C. pipe  
Dimensions — 4'3" and 4'6" diameter



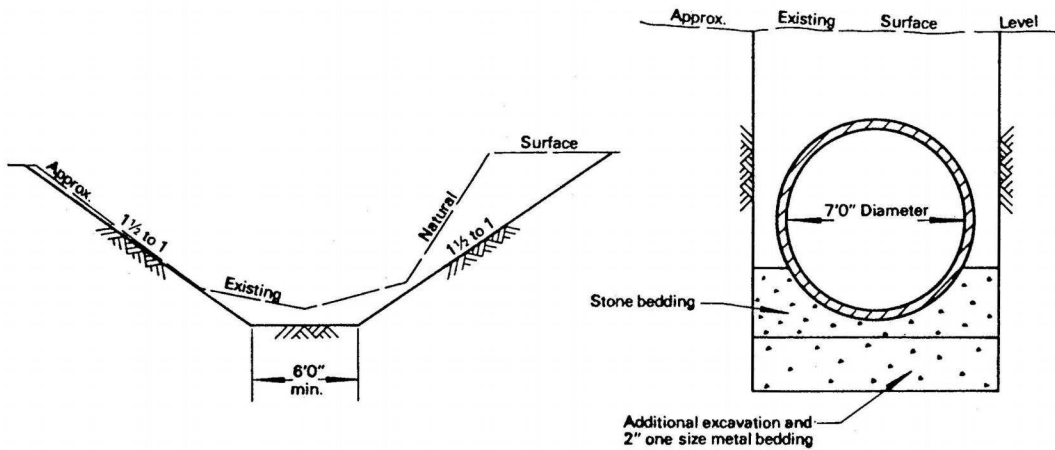
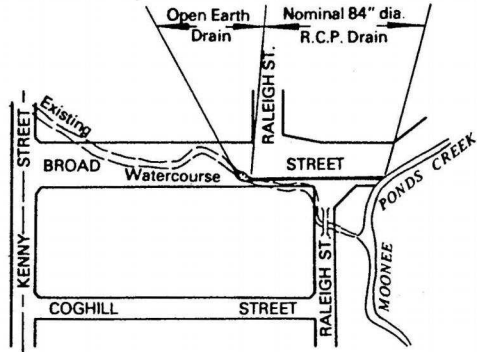
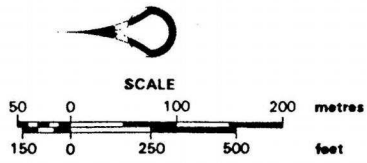
Extension near De Havilland Ave. (4344/4)

Date of issue — 25.11.74  
Date of completion — 14.3.75  
Cost — \$5,808 (final estimate)  
Type of drain — R.C. pipe and  
Pitcher lined channel  
Dimensions — 5'6" diameter



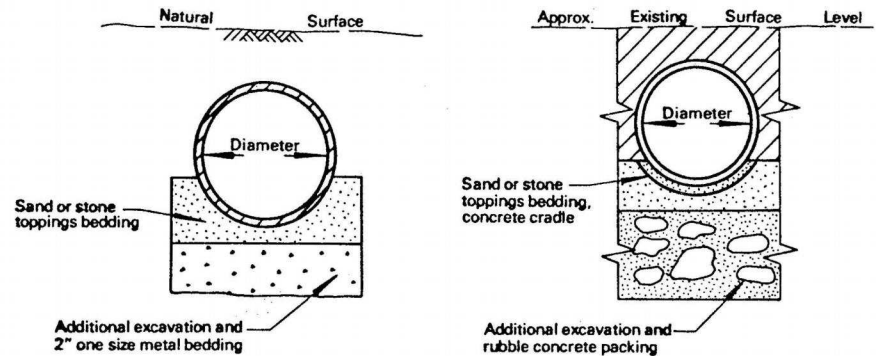
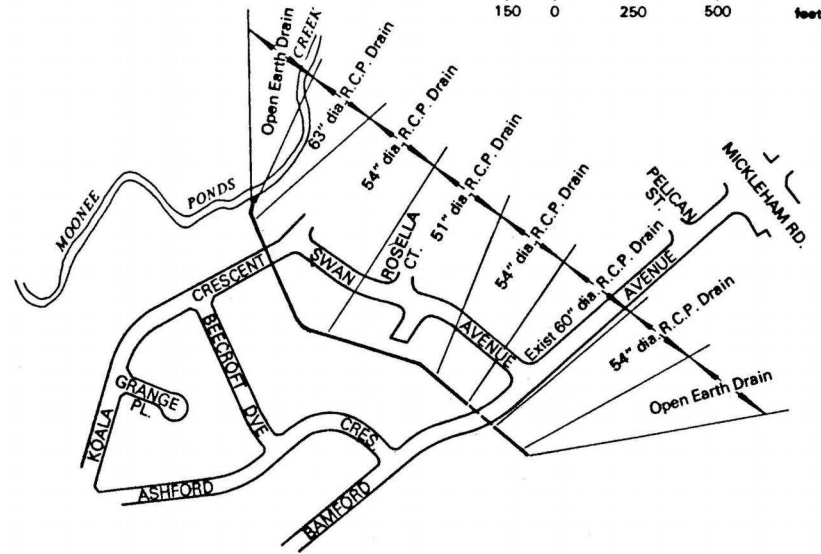
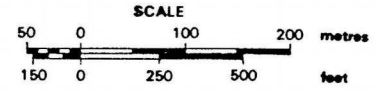
Undergrounding — from retarding basin to Karin Cres. (4347/6)

Date of issue — 29.3.79  
Date of completion — 4.6.79  
Cost — \$79,444 (estimate on contract price)  
Type of drain — R.C. pipe and  
Concrete lined channel  
Dimensions — 1500 mm to 1950 mm diameter



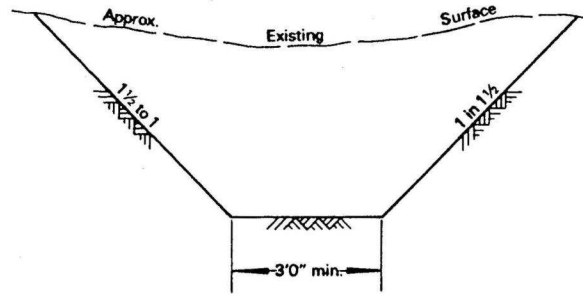
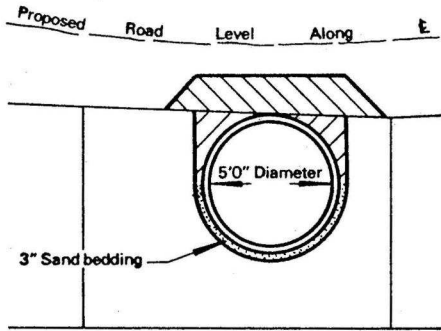
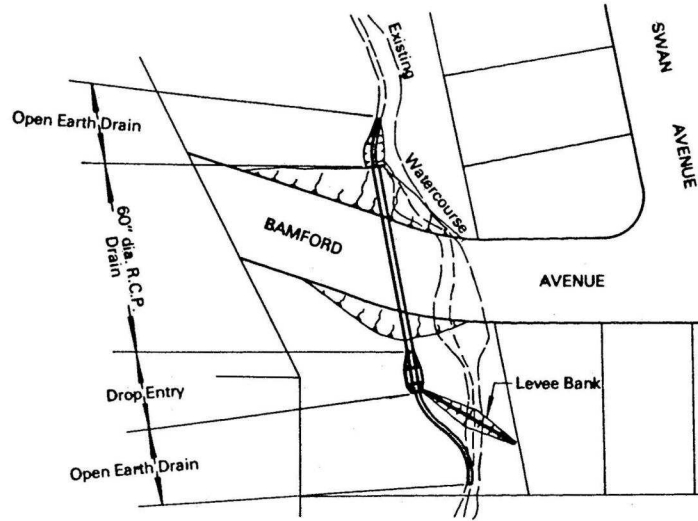
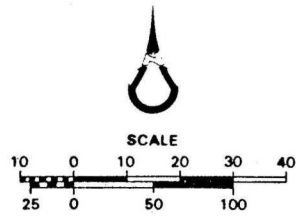
**Moonee Ponds Creek to Raleigh St. (4352/1)**  
 Date of issue — 14.2.72  
 Date of completion — 3.5.72  
 Cost — \$34,310  
 Type of drain — R.C. pipe  
 Dimensions — 7'0" diameter

**BROAD STREET DRAIN — No. 4352**

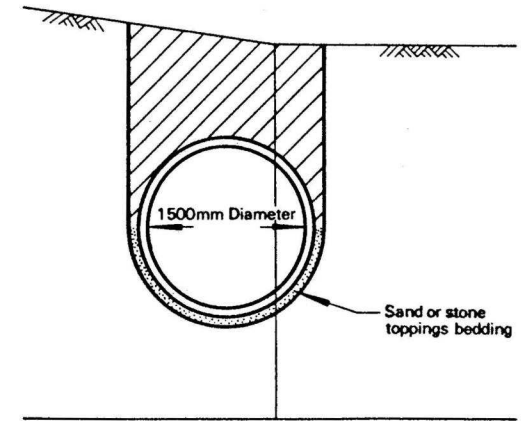
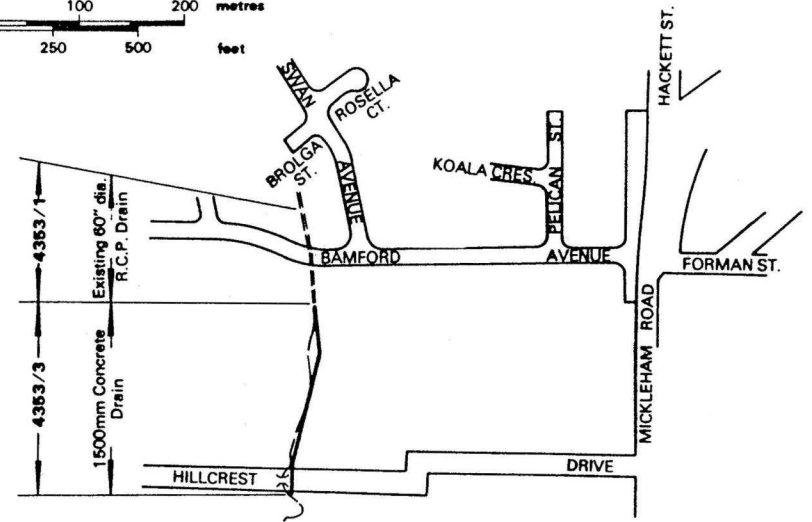
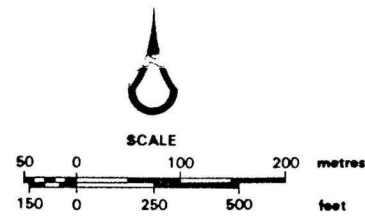


**Moonee Ponds Creek to Bamford Ave. (4353/2)**  
 Date of issue — 9.8.73  
 Date of completion — 4.10.73  
 Cost — \$47,634  
 Type of drain — R.C. pipe  
 Dimensions — 4'3" to 5'3" diameter

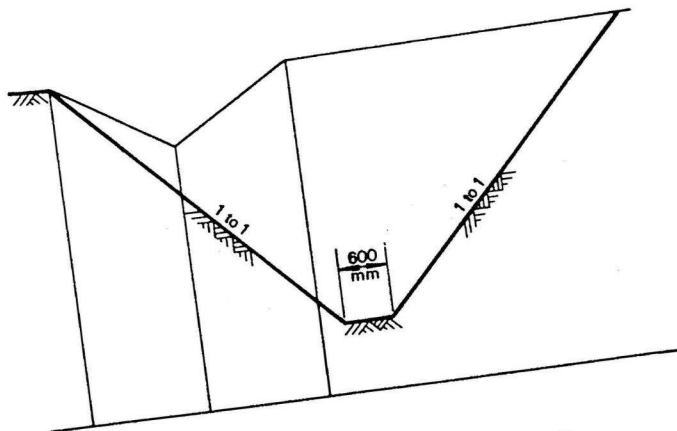
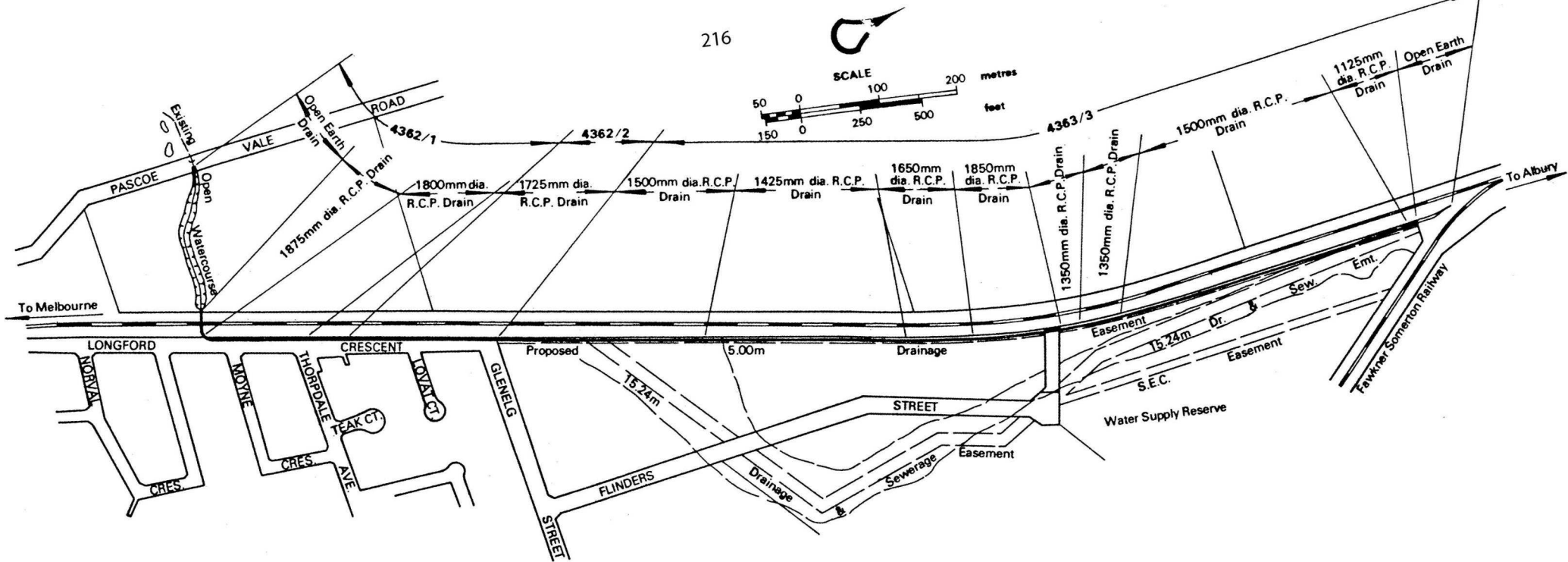
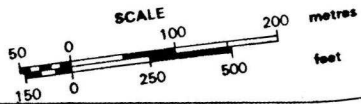
**BOOTHS DRAIN — No. 4353**



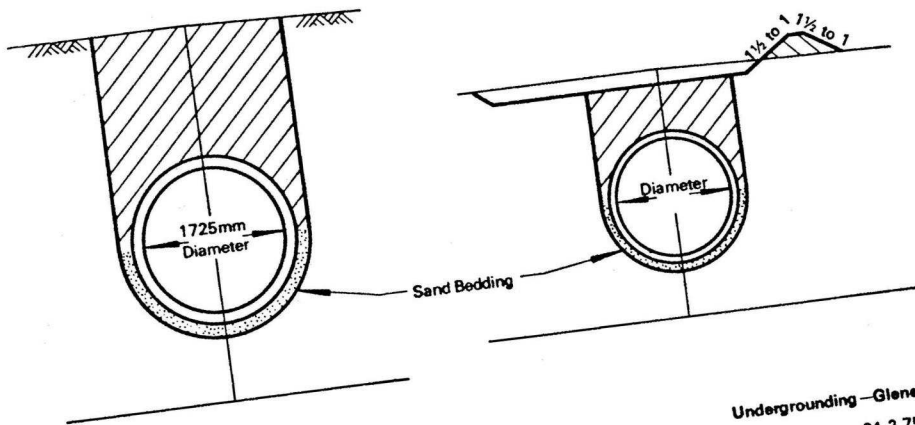
**Culvert at Bamford Ave. (4353/1)**  
 Date of issue — 7.7.69  
 Date of completion — 7.8.69  
 Cost — \$6,684 (estimate on contract price)  
 Type of drain — R.C. pipe, Open earth channel  
 and Levee bank  
 Dimensions — R.C. pipe — 5'0" diameter



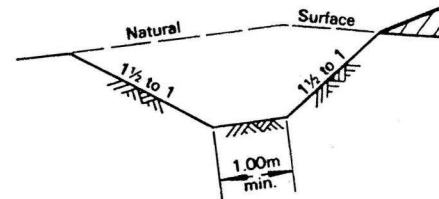
**Bamford Ave. to Hillcrest Ave. (4353/3)**  
 Date of issue — 28.11.78  
 Date of completion — 5.2.79  
 Cost — \$44,587 (estimate on contract price)  
 Type of drain — Concrete  
 Dimensions — 1500 mm diameter



**Downstream railway to Thorpdale Ave. (4362/1)**  
 Date of issue — 21.11.72  
 Date of completion — 30.4.73  
 Cost — \$102,908  
 Type of drain — R.C. pipe and Open earth  
 Dimensions — R.C. pipe — 1725 mm to 1875 mm diameter

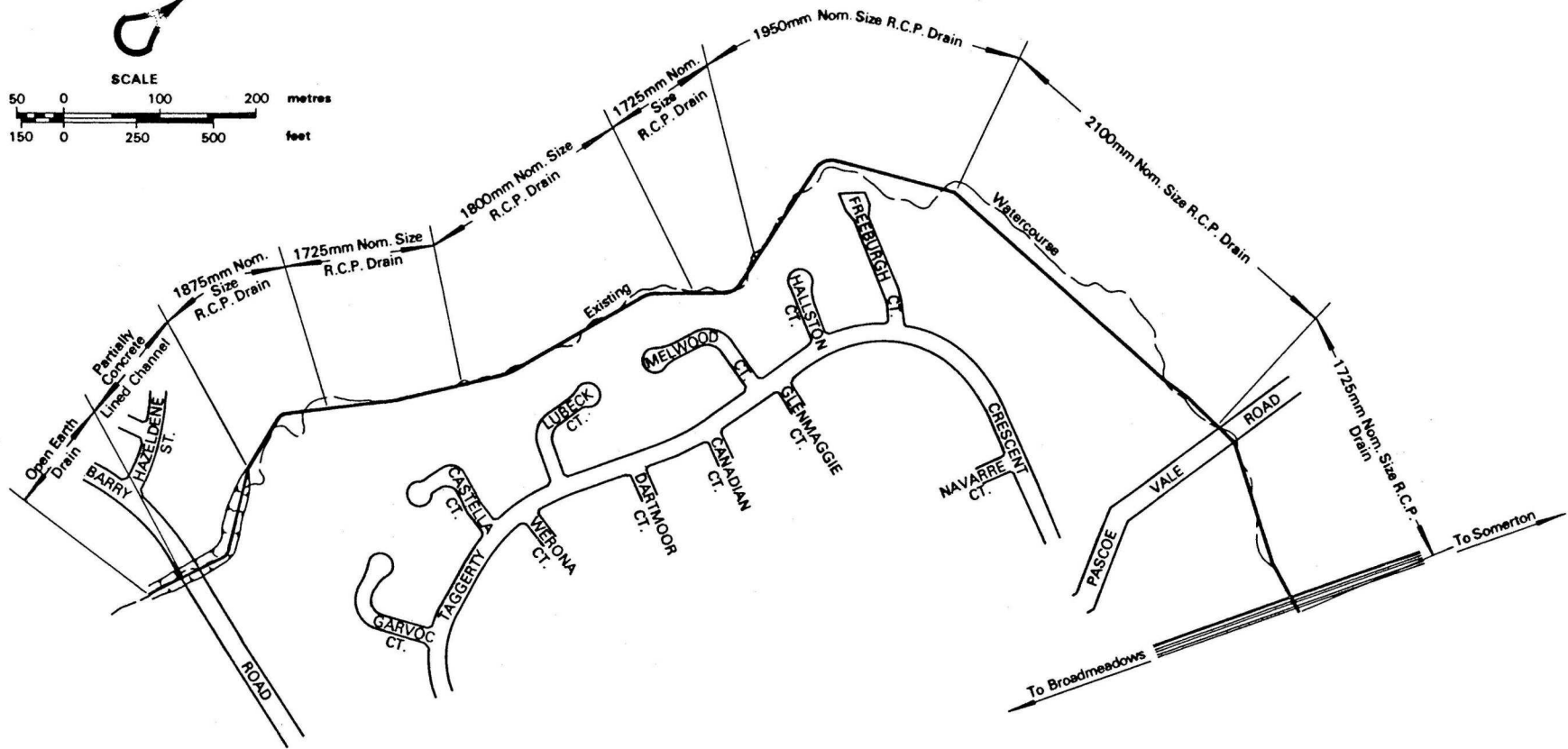
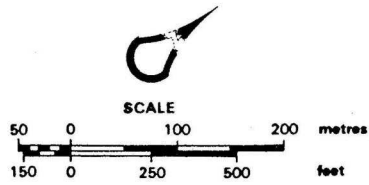


**Near Thorpdale Ave. to Glenelg St. (4362/2)**  
 Date of issue — 11.2.74  
 Date of completion — 25.3.74  
 Cost — \$45,463  
 Type of drain — R.C. pipe  
 Dimensions — 1725 mm diameter



**Undergrounding—Glenelg St. to Somerton Rd. (4362/3)**  
 Date of issue — 21.2.75  
 Date of completion — 3.7.75  
 Cost — \$263,829  
 Type of drain — R.C. pipe  
 Dimensions — 1350 mm to 1500 mm diameter

**OTWAY CRESCENT DRAIN — No. 43**



**Barry Rd. extension to railway (4362/4)**

Date of issue — 21.3.75

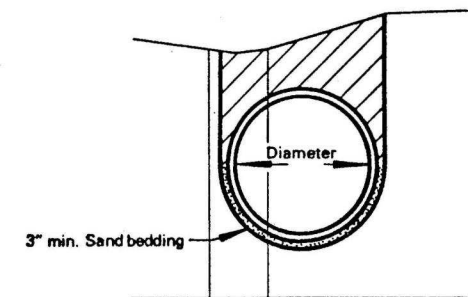
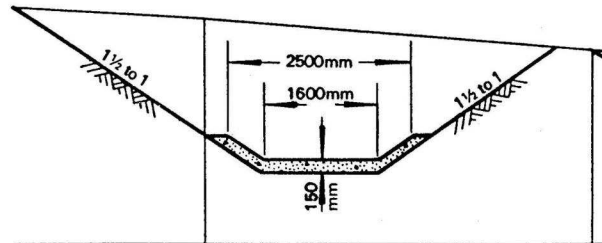
Date of completion — 26.8.75

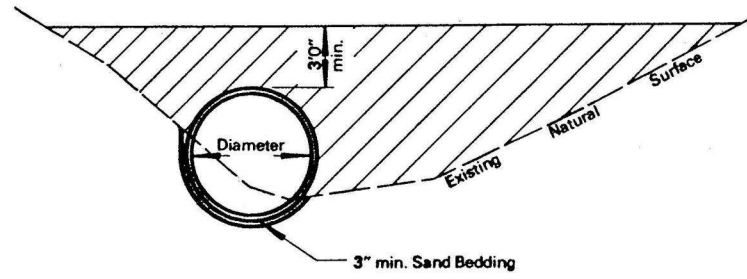
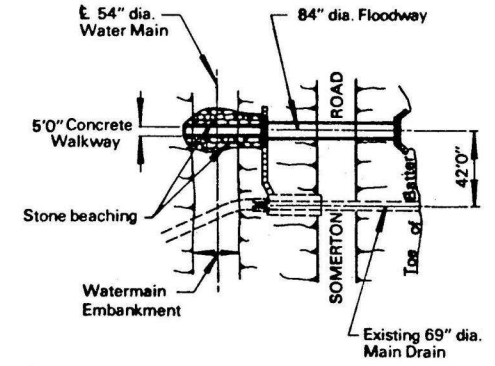
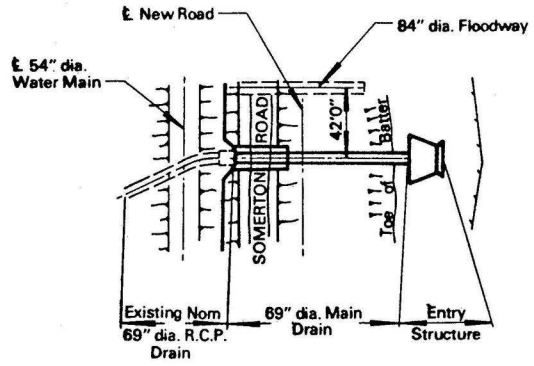
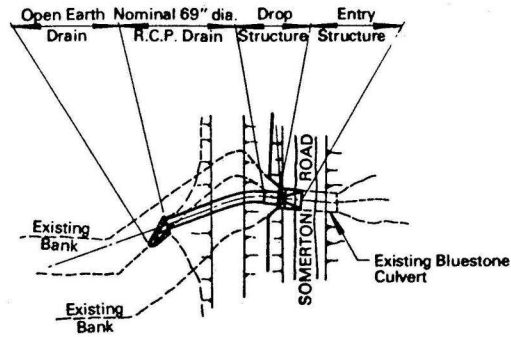
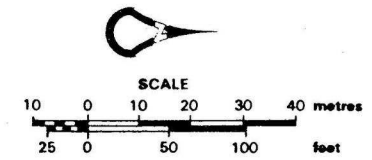
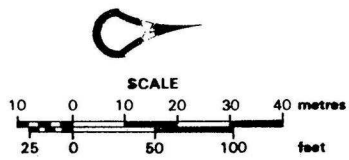
Cost — \$453,456

Type of drain — R.C. pipe and

Partially lined channel

Dimensions — 1725 mm to 2100 mm diameter

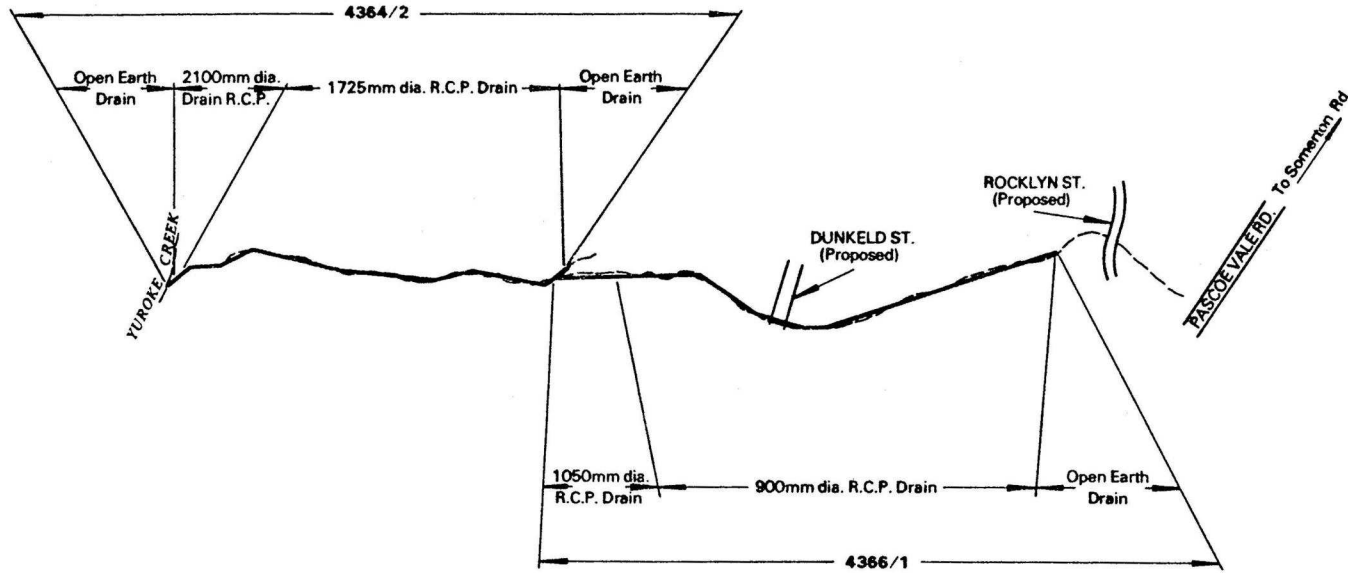
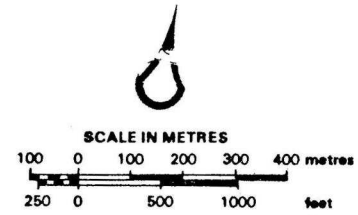




**Culvert under embankment at Somerton Rd. (4364/1)**  
 Date of issue — 12.2.71  
 Date of completion — 1971  
 Cost — Included in cost of water Main project  
 Type of drain — R.C. pipe  
 Dimensions — 5'9" diameter

**Extension of culvert under Somerton Rd.**  
 (Constructed by Shire of Bulla, in 1976)





**Yuroke Creek to Somerton Reservoir Overflow Drain (4364/2)**  
**Shankland Drain to Board's Drainage Limit (4366/1)**  
 Date of issue — 23.9.80  
 Date of completion — Under construction  
 Cost — \$376,000 (final estimate)  
 Type of drain — R.C. pipe  
 Dimensions — Shankland Drain — 1725 mm to 2100 mm diameter  
                   Somerton Drain — 900 mm to 1050 mm diameter

