1976-77 ANNUAL REPORT OF THE COMMISSIONER FOR MAIN ROADS N.S.W.



DEPARTMENT OF MAIN ROADS N.S.W.



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1976-77 ANNUAL REPORT

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SYDNEY, NEW SOUTH WALES OCTOBER 1977

THE HONOURABLE, THE MINISTER FOR TRANSPORT AND THE MINISTER FOR HIGHWAYS, SYDNEY

Section 6 of the Main Roads Act, 1924, requires that the Commissioner for Main Roads shall present an annual report and statement of accounts to Parliament through the Minister.

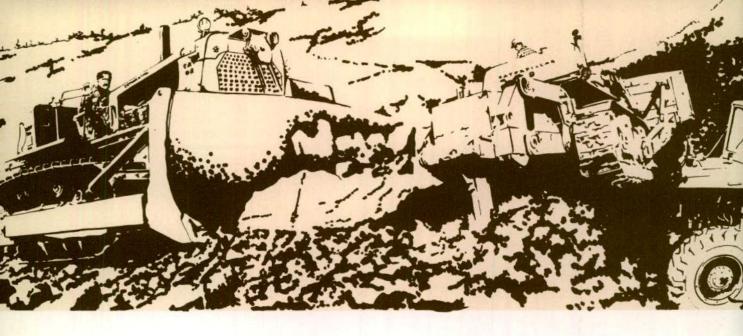
I now have pleasure in submitting through you the fifty-second Annual Report, including statement of accounts.

The report covers the period from 1 July 1976 to 30 June 1977 though a few matters referred to are carried beyond the latter date for convenience and completeness of record.

Obelinia

A. F. SCHMIDT COMMISSIONER FOR MAIN ROADS





GENERAL REVIEW

From time immemorial man has shown a preference for a personalised form of transport. From about the year 5000 B.C., when the wheel was invented, this transport has gradually developed into today's motor vehicle powered by the internal combustion engine.

There is sufficient evidence that the internal or external combustion engine will power road vehicles, similar to what we are using today, well into the foreseeable future even though fears are being expressed that fossil fuels will be well on the way to exhaustion by the year 2000.

These vehicles, whatever their power source, will still need roads for their movement and the planning and development of roads for the future needs of the State's main roads system is an on-going function.

In planning and developing the roads for the future the Department of Main Roads employs people in an extensive range of skilled occupations. These people are engaged in planning and implementing programmes of road building and maintenance works to meet the needs of the State.

Planned road improvements must ensure that the works provide the capacity to serve the greatest number of people in the community; that the works are socially and environmentally acceptable; that the new work provides a road which is safer for the road user; that the methods of construction will provide a long-lasting community asset; that the cost of construction is minimal for the type of work being undertaken; and the national estate is benefited because of the works.

An assessment of road needs is an expression of the work needed to improve the existing road system to standards consistent with present and estimated future requirements for the safe and free flow of vehicular traffic.

There will always be a differential between assessment and achievement. This differential is brought about by budget constraints, physical constraints such as topography, floods and other natural phenomena, constraints imposed by environmental and ecological sensitiveness and there are others.

In planning for road needs the Department therefore plans for the possible and determines its priorities in this light.

Programmes of road improvements embrace both bridges and roads.

Over many years crossings of major waterways were made by vehicular ferries which ceased running during flood periods and immobilised transport. Flood free bridges have now replaced ferries on our major arterial roads and are part of the 5,596 bridges on the Main Roads System in New South Wales.

A great number of these bridges were constructed prior to the 1940's, and because of the trend towards heavier loads and increasing traffic volumes many of them are now structurally deficient or functionally obsolete.

Adverse environmental conditions have resulted in an accelerated deterioration of these structures and a rapid reduction in their life expectancy.

Because only limited funds can be made available for bridge construction, the maximum finance available must be expended on the maintenance of these older bridges.

In addition to the upkeep of bridges, it is the Department's function to maintain road communication between centres of population and to develop or assist in developing acceptable road improvements for commercial and personal transport.

This communication has been achieved by means of the main roads system. The system has developed and changed markedly over the last 30 years partly by evolution and partly by conscious planning.

Travel habits and demand as well as vehicle numbers and performance have dictated the need for planning.

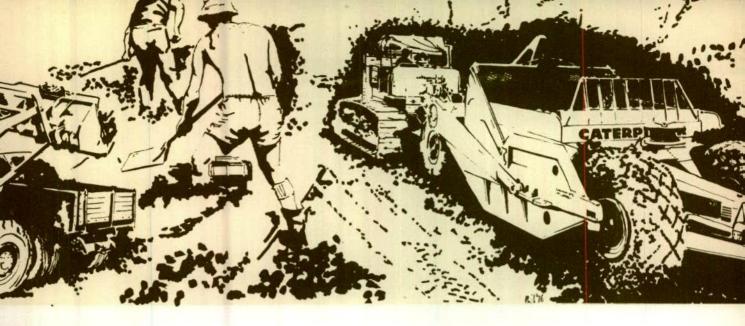
The main roads system has become more highly structured with the principal arterial roads assuming ever-increasing importance in the carriage of people and goods.

The carriage of goods in Australia is an immense infrastructure of freight movements involving transport by road, rail, sea and air.

The 1975-76 Annual Report of the Commonwealth Department of Transport notes that the annual freight task in Australia is of the order of 170 000 million tonnes/kilometre. The Report states that road transport carries more than four times as much freight as rail and twenty times as much as sea transport.

So that this road freight may move safely, efficiently and at least cost to the shipper and the shopper, the Department of Main Roads spent \$309,864,301 on the principal roads in New South Wales in the last financial year. In addition private operators, both big and small, provided the immense capital investment needed for the vehicles and equipment to cater for these important intra-regional, inter-regional and interstate freight movements.

The Department of Main Roads is deeply involved in the



consideration of the transport requirements of the Botany Bay port development and the surrounding sub-region.

In this area, the Department of Main Roads is undertaking a substantial programme of road improvements to service the Port area. Some of these improvements have been completed, others are in hand and others are in the design stage.

The Maritime Services Board has estimated that container shipping will commence to use the Port in March 1979 and approved roadworks have been programmed to be completed by that date.

There are other roadworks which have been approved for construction in the Botany Bay sub-region and which will assist in the movement of traffic. Constraints imposed by time and funds will prohibit these additional works being completed by March 1979 but it is the planned objective to have them completed by the time the final berth becomes operational.

The cost of roadworks in the Port area will be almost \$20 million and a proportion of this amount will be provided by the Commonwealth Government.

Existing traffic, together with Port traffic and traffic generated by other industrial developments in the area including Kingsford-Smith (Sydney) Airport, dictates the need to provide at least one additional major road link to cater for eventual traffic requirements for the Botany Bay sub-region.

Planning and design investigations for a number of roadway alternatives within the Kyeemagh-Chullora transportation corridor are being carried out by the Department for the State Government.

One of the most significant changes in the administration of the Department flowed from the establishment of the Traffic Authority of New South Wales in 1976.

The result of this change has been to amalgamate in one department all significant activities in the construction and maintenance of roads and traffic facilities.

The Department is now the principal construction agency for the installation of traffic advisory and control facilities, such as traffic signals, signs, road markings and the like.

Because of the technical expertise and experience available in the Department of Main Roads, the Traffic Authority has delegated to the Department powers to investigate, design, construct, operate and maintain traffic facilities on all public roads in New South Wales subject to the policies, pricrities and programmes set down by the

Traffic Authority. These powers are exercised by the Department's Divisional Engineers.

The Traffic Facilities Fund has been established to provide for the expenditure necessary in providing and maintaining traffic control facilities throughout the State. The Department of Main Roads administers that part of this Fund which is required to meet expenditures on council roads.

Councils carry out the bulk of the work of construction and maintenance on trunk and main roads and they are encouraged to assign priorities to needed improvements several years ahead.

The Department provides funds generally in accordance with the agreed priority programmes and grants are made available subject to a set of commonsense conditions which include certain statutory requirements.

Departmental officers attend Council meetings on request. Joint inspections are made to clarify problems and assistance is freely given to assist Councils in achieving desired standards.

The Department sees Councils as partners in a sphere of common interest.

To build many of the roadworks required the Department employed 10,148 people at the close of the 1976-77 financial year.

This number of people is 669 more than the number employed at the close of the preceding financial year. The increase in employment was brought about by a reassessment of funds available to the Department with a consequent adjustment of work priorities. A great many of these people are employed in rural areas.

The year has been both challenging and frustrating. The dedication of all the people in the Department's service has been of the highest order.

Very serious problems were imposed on the Department of Main Roads in maintaining and improving the main roads system to world standard as demanded by the community and the sustained effort given over the year demonstrates the outstanding personal pride which people employed in the Department have in the performance of their duties.

Much of this pride is generated by people participation in the work and activities of the Department. This participation ranges in a variety of ways through self managing work group to participation in Committee recommendations which assist in the process of decision making.

FUNDS 1976-77

RECEIPTS

PAYMENTS

COMMONWEALTH GRANTS: \$137,365,958

CONSTRUCTION, RECONSTRUCTION AND PROPERTY ACQUISITIONS OF ROADS AND BRIDGES: \$162,817,148

STATE MOTOR VEHICLE TAXATION: \$106.098,521

CHARGES FOR HEAVY VEHICLES: \$19,809,661

LOANS: \$19,000,000

BRIDGES: \$96,741,748

ROAD TRANSPORT & TRAFFIC FUND, PUBLIC VEHICLES FUND: \$7,229,609

CONSTRUCTION AND MAINTENANCE OF LOCAL ROADS: \$21,875,700

MAINTENANCE AND MINOR IMPROVEMENT OF ROADS AND

OTHER: \$22,786,448

ADMINISTRATION AND MISCELLANEOUS: \$28,429,705

FINANCE

The continuing overall escalation in costs since 1972-73 has reduced the real value of the total funds available to the Department for maintenance and new construction works.

Over this five year period, road industry costs have increased significantly more than the Consumer Price Index as set out in the table below.

	Consumer	Department's Road
Year	Price Index	Cost Index
1972-73	100.00	100.00
1973-74	113.00	113.90
1974-75	131.51	146.00
1975-76	148.61	168.90
1976-77	166.84	185.80 (Est.)

STATE REVENUE

Motor Vehicle Taxation

The revenue for Main Roads works from motor vehicle taxation during the year 1976-77 totalled \$106,098,521 which was \$20,144,218 or 23.4% more than the previous year. This increase was due to the 33\%% increase in the rates from 1 November 1976. The previous rates had been in force since 1 January 1972.

Despite this increase in the rates, the real value of revenue from motor vehicle taxation, when expressed in terms of 1972-73 values, has declined from \$74 million in 1972-73

to \$57 million in 1976-77, as illustrated in the bar chart on page 5. The average revenue per vehicle from motor vehicle taxation also indicates a similar trend, declining from \$37.04 per vehicle in 1972-73 to \$24.87 per vehicle in 1976-77.

Since 1972-73, the number of registered motor vehicles in New South Wales has increased by 14.2%, which meant additional State funds had to be expended on Main Roads construction and maintenance works. To provide for these additional funds and for increases in road industry costs, it is estimated that an additional \$53 million would have been required from motor vehicle taxation in 1976-77 to match the real value of the amount of taxation received in 1972-73.

Road Maintenance (Contribution) Act, 1958

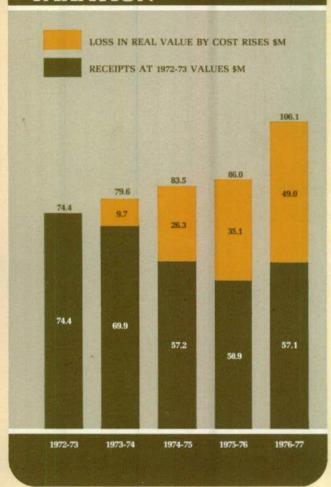
The charges on heavy commercial vehicles under this Act yielded \$19,809,661, which was \$458,115 or 2.3% less than in 1975-76. Revenue from this source is applied wholly to maintenance works.

In 1972-73 values the revenue from this source has declined from \$18.3 million in 1972-73 to \$10.7 million in 1976-77.

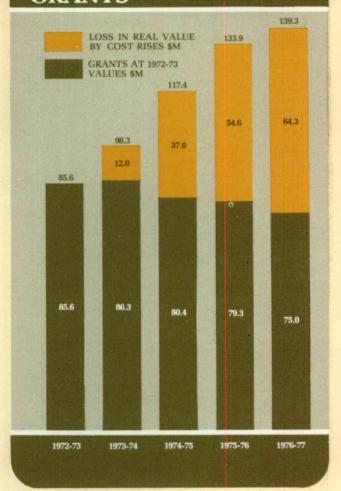
Loan Funds

During 1976-77, \$11 million were borrowed from private lenders for construction works. In addition, an amount of \$8 million was made available to the Department from repayable State Government loan funds.

STATE MOTOR VEHICLE TAXATION



COMMONWEALTH GRANTS



Payments during 1976-77 for interest, exchange, etc., sinking fund and repayment of principal increased by \$4,234,681 to \$15,145,646. The capital debt, less reserves for repayment of loans, increased from \$109,685,679 to \$122,881,036.

The Department has increased its borrowings from \$8.5 million in 1972-73 to \$19 million in 1976-77. This increase has partly offset the loss in real value of other State revenues.

Traffic Facilities

Following the passing of the Traffic Authority Act, 1976, the responsibility for the construction and maintenance of traffic facilities on all roads in New South Wales was transferred from the Department of Motor Transport to the Department of Main Roads.

The funds made available for these works during 1976-77 totalled \$21,318,726.

COMMONWEALTH GRANTS

Commonwealth grants to this State for roads in 1976-77 amounted to \$139.3 million, an increase of \$5.4 million (4%) on the previous year.

In terms of 1972-73 values, the real value of Commonwealth Road Grants has declined from \$86 million in 1972-73 to \$75 million in 1976-77. The bar chart above shows the difference in real values.

The increase in Commonwealth grants in 1976-77 was applied mainly to National Roads while the grants for Urban Arterial Roads were actually reduced by \$7.6 million. Other road categories received slightly increased grants or the grants were maintained at the 1975-76 level with no allowance being made for cost rises.

PAYMENTS

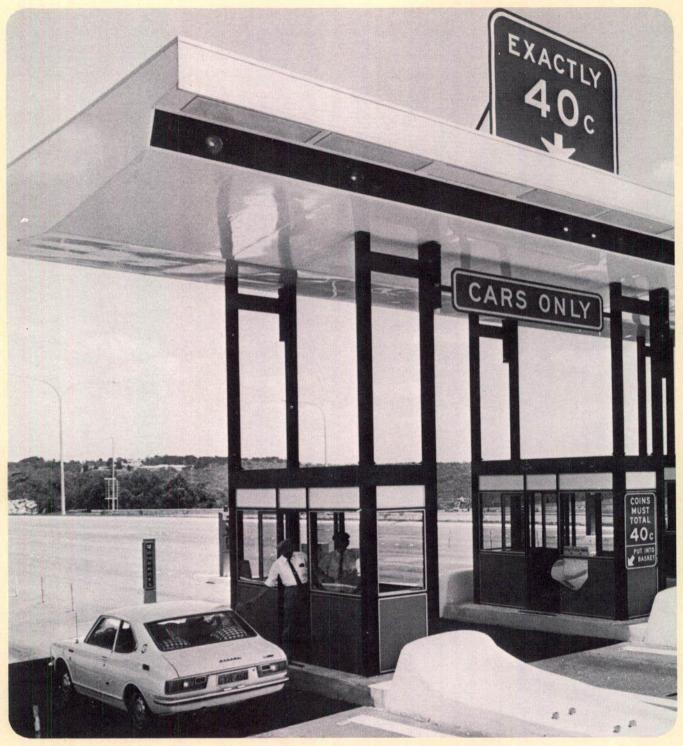
Total payments from the County of Cumberland, Country, Commonwealth and the Traffic Facilities Funds amounted to \$309,864,301 or \$29,588,223 more than in 1975-76.

Construction, reconstruction and acquisition of property for roadworks accounted for the major portion of the expenditure and the amount expended on these works was \$162,817,148 or 52.5% of the total expenditure.

Expenditure on maintenance and minor improvements on roads and bridges was \$96,135,387 or 31% of the total expenditure.

An amount of \$21,780,891 was expended from Commonwealth grants on the construction and maintenance of Councils' Local Roads.

Expenditure on construction and maintenance of traffic facilities was \$19,521,365.



Facilities at the Waterfall and Berowra Toll Plazas include both manual and automatic collection.

TOLLWORKS

BEROWRA TO CALGA

The total number of vehicles which used the Tollwork during the year was 6,791,038. The average daily traffic increased from 18,566 to 18,605.

Receipts from toll collections increased by \$316,533 (6.5%) over the previous year from \$4,863,070 to \$5,179,603.

The cost of operations, administration and capital debt charges increased by \$550,759 (15.6%) over the previous year from \$3,523,147 to \$4,073,906.

The Capital Debt stood at \$28,840,981 as at 30 June 1977.

WATERFALL TO BULLI PASS

During the year, 3,181,608 vehicles travelled on the Tollwork between Waterfall and Bulli Pass at an average of 8,716 vehicles each day.

Receipts from toll collections increased by \$139,855 (11.6%) over the previous financial year from \$1,205,967 to \$1,345,822. The cost of operations, administration and capital debt charges amounted to \$4,372,031, an increase of \$812,363 (22.82%) over the previous financial year.

The Capital Debt stood at \$24,953,977 as at 30 June 1977.

SYDNEY HARBOUR BRIDGE

INCOME

LOAN CHARGES: \$1,579,724

MAINTENANCE: \$1,592,857

TOLL COLLECTIONS: \$1,036,819

TRAFFIC FACILITIES: \$959,206

OTHER: \$831,647

OTHER: \$376,507

SYDNEY HARBOUR BRIDGE

CAPITAL INDEBTEDNESS

After taking into account sinking fund payments to the Treasury and setting aside revenue for repayment of private loans, the capital debt in respect of the Sydney Harbour Bridge and approaches (including the Cahill Expressway and Warringah Freeway) fell from \$13,989,661 at the end of the previous financial year to \$13,326,489 as at 30 June 1977.

INCOME AND EXPENDITURE

The toll income from road vehicles amounted to \$5,133,643 which was \$28,244 more than in 1975-76. The amount received from the Public Transport Commission in respect of railway and omnibus usage in 1976-77 was \$351,975 compared with \$321,450 in 1975-76.

Expenditure during the year was \$5,545,113 or \$82,106 less than in 1975-76. This decrease was due mainly to reduced loan charges.

The sources of income and the main items of expenditure are illustrated in the above diagram.

TRAFFIC

The road vehicle crossings of the bridge during the 1976 calendar year totalled 53,158,600 of which 27,301,000 were northbound and 25,857,600 southbound vehicles.

The Average Annual Daily Traffic Volume on the Sydney Harbour Bridge increased only slightly over the volume of the previous year to 146,040 vehicles per day. The highest daily volume of 179,070 vehicles was recorded on the Thursday before Easter, 15 April 1976.

Average peak hour volumes in the direction of major flow were 9,580 vehicles in the morning and 9,160 vehicles in the evening peak periods. The morning peak hour volume decreased by 4% and the evening peak hour volume by 5% over the previous year. The highest hourly volumes recorded in the direction of major flow were 10,920 vehicles in the morning and 10,350 vehicles in the evening peak periods.

Average traffic volumes in the direction of minor flow during the peak hours were 3,410 vehicles per hour in the morning and 3,680 in the evening peak periods. The highest hourly volumes recorded in the direction of minor flow were 3,740 vehicles in the morning and 4,380 in the evening peak periods.

MAINTENANCE

Throughout the year the fifth cycle of repainting of the Sydney Harbour Bridge was continued.

An area of 29 900 m^2 was painted during the year, completing approximately 264 800 m^2 of the fifth cycle of repainting. The area of steelwork which is covered in a complete cycle of repainting is 485 000 m^2 .

During 1976-77 the area repainted was substantially less than previous years due to extra attention given to relatively inaccessible areas. An improved system of surface preparation and treatment was developed to provide a longer service life and to extend the time between repainting cycles.

Routine maintenance and inspection of steelwork, cranes, lifts and other mechanical equipment were continued through the year. Improvements were made to access ways and security barriers.

Painting of ancillary buildings was carried out and routine maintenance and inspection of power supply, lighting and all electrical equipment were continued.

General repairs to the road pavement and concrete paved areas, and extensive cleaning and repairs to the pedestrian stairway on the southern approach and the western wall in the northern approach were carried out.

STATEMENT OF RECEIPTS AND PAYMENT

for the Year Ended 30 June 1977

Receipts

Motor vehicle taxation..... Charges on commercial vehicles under the Road Maintenance (Contribution) Act, 1958..... Levy upon Councils in accordance with Section II of the Main Roads Act, 1924 State Government Loans - Repayable.... Loan Borrowings under Section 42A of the Main Roads Act, 1924..... State Treasury Advance - Repayable..... Contributions by Councils towards maintenance and construction of Main and Secondary Roads..... Contributions by other departments and bodies towards maintenance and construction of Main and Second Roads State Government Grant for Relief of Unemployment..... Commonwealth/State Government Grant for restoration of flood damage..... State Government Grant for Upgrading Cane Roads Sydney Harbour Bridge Account for freeway approaches..... Transport (Planning and Research) Act, 1974..... National Roads Act, 1974..... Roads Grants Act, 1974..... Road Transport and Traffic Fund and Public Vehicles Fund Ministry of Transport Vote Other.....

Total Receipts

Payments

Construction and reconstruction of roads and bridges...

Construction and maintenance of local roads...

Land acquisition...

Maintenance and minor improvements of roads and bridges...

Restoration of flood damage (Proclaimed Natural Disasters)...

Purchase of land and buildings for works operations...

Administrative expenses...

Purchase of land and buildings for administration...

Planning and research...

State Treasury Loans —

Sinking fund payments...

Interest, exchange, management and flotation expenses...

Loan Borrowings under Section 42A of the Main Road Act, 1924 —

Repayment of principal...

Interest...

Other

Total Payments

* Includes \$2,990,000 of 1977-78 Loan Allocation received prior to 30 June 1977

ounty of aberland Fund \$	Country Fund \$	Commonwealth Fund \$	Traffic Facilities Fund \$	Total 1976-77 \$	1975-76 \$
9,645,608	73,107,313		3,345,600	106,098,521	85,954,303
3,961,932	15,847,729			19,809,661	20,267,776
56,559				56,559	104,468
1,000,000	7,000,000			8,000,000	7,250,000
6,290,000*	7,700,000			13,990,000	8,000,000
				-	6,000,000
745,267	153,125			898,392	1,130,976
80,950	833,094			914,044	1,119,252
	100,000			100,000	348,679
	11,806,380			11,806,380	13,223,400
	300,000			300,000	-
354,230				354,230	6,711
		1,761,326	24,168	1,785,494	1,597,079
		56,733,883	654,803	57,388,686	49,200,000
		74,800,000	3,391,778	78,191,778	83,605,370
			7,229,609	7,229,609	
1 055 575	500.051		2,500,000	2,500,000	1 002 642
1,055,575	596,271		1,214,997	2,866,843	1,902,643
3,190,121	117,443,912	133,295,209	18,360,955	312,290,197	279,710,657
		00.000.004	0.771.000	440 707 000	140.074.400
5,046,210	33,478,312	90,809,024	6,174,086	146,507,632	142,671,436
	94,809	21,780,891	6,174,086	21,875,700	21,332,098
4,341,084	94,809 2,156,537	21,780,891 9,811,895		21,875,700 16,309,516	21,332,098 17,779,776
4,341,084	94,809 2,156,537 48,728,304	21,780,891	6,174,086 11,984,140	21,875,700 16,309,516 83,957,456	21,332,098 17,779,776 60,323,486
4,341,084 5,204,631	94,809 2,156,537	21,780,891 9,811,895	11,984,140	21,875,700 16,309,516 83,957,456 12,184,292	21,332,098 17,779,776
4,341,084 5,204,631 223,655	94,809 2,156,537 48,728,304 12,184,292 383,695	21,780,891 9,811,895 8,040,381		21,875,700 16,309,516 83,957,456 12,184,292 1,016,666	21,332,098 17,779,776 60,323,486 13,181,743
4,341,084 5,204,631 223,655	94,809 2,156,537 48,728,304 12,184,292	21,780,891 9,811,895 8,040,381 208,400	11,984,140 200,916	21,875,700 16,309,516 83,957,456 12,184,292	21,332,098 17,779,776 60,323,486 13,181,743 1,093,364
4,341,084 5,204,631 223,655 2,308,810	94,809 2,156,537 48,728,304 12,184,292 383,695 7,897,882	21,780,891 9,811,895 8,040,381 208,400	11,984,140 200,916	21,875,700 16,309,516 83,957,456 12,184,292 1,016,666 15,973,551	21,332,098 17,779,776 60,323,486 13,181,743 1,093,364 13,770,121
4,341,084 5,204,631 223,655 2,308,810 228,981 425,457	94,809 2,156,537 48,728,304 12,184,292 383,695 7,897,882 371,004 647,720	21,780,891 9,811,895 8,040,381 208,400 4,640,887	11,984,140 200,916 1,125,972	21,875,700 16,309,516 83,957,456 12,184,292 1,016,666 15,973,551 599,985 3,193,884	21,332,098 17,779,776 60,323,486 13,181,743 1,093,364 13,770,121 1,131,264 2,226,731
4,341,084 5,204,631 223,655 2,308,810 228,981	94,809 2,156,537 48,728,304 12,184,292 383,695 7,897,882 371,004	21,780,891 9,811,895 8,040,381 208,400 4,640,887	11,984,140 200,916 1,125,972	21,875,700 16,309,516 83,957,456 12,184,292 1,016,666 15,973,551 599,985	21,332,098 17,779,776 60,323,486 13,181,743 1,093,364 13,770,121 1,131,264
4,341,084 5,204,631 223,655 2,308,810 228,981 425,457 62,760 291,610	94,809 2,156,537 48,728,304 12,184,292 383,695 7,897,882 371,004 647,720 180,553 1,811,387	21,780,891 9,811,895 8,040,381 208,400 4,640,887	11,984,140 200,916 1,125,972	21,875,700 16,309,516 83,957,456 12,184,292 1,016,666 15,973,551 599,985 3,193,884 243,313 2,102,997	21,332,098 17,779,776 60,323,486 13,181,743 1,093,364 13,770,121 1,131,264 2,226,731 236,383 1,545,047
4,341,084 5,204,631 223,655 2,308,810 228,981 425,457 62,760 291,610 241,351	94,809 2,156,537 48,728,304 12,184,292 383,695 7,897,882 371,004 647,720 180,553 1,811,387 517,144	21,780,891 9,811,895 8,040,381 208,400 4,640,887	11,984,140 200,916 1,125,972	21,875,700 16,309,516 83,957,456 12,184,292 1,016,666 15,973,551 599,985 3,193,884 243,313 2,102,997	21,332,098 17,779,776 60,323,486 13,181,743 1,093,364 13,770,121 1,131,264 2,226,731 236,383 1,545,047 515,358
4,341,084 5,204,631 223,655 2,308,810 228,981 425,457 62,760 291,610 241,351 1,397,599	94,809 2,156,537 48,728,304 12,184,292 383,695 7,897,882 371,004 647,720 180,553 1,811,387 517,144 1,824,940	21,780,891 9,811,895 8,040,381 208,400 4,640,887	11,984,140 200,916 1,125,972	21,875,700 16,309,516 83,957,456 12,184,292 1,016,666 15,973,551 599,985 3,193,884 243,313 2,102,997 758,495 3,222,539	21,332,098 17,779,776 60,323,486 13,181,743 1,093,364 13,770,121 1,131,264 2,226,731 236,383 1,545,047 515,358 2,320,960
4,341,084 5,204,631 223,655 2,308,810 228,981 425,457 62,760 291,610 241,351	94,809 2,156,537 48,728,304 12,184,292 383,695 7,897,882 371,004 647,720 180,553 1,811,387 517,144	21,780,891 9,811,895 8,040,381 208,400 4,640,887	11,984,140 200,916 1,125,972	21,875,700 16,309,516 83,957,456 12,184,292 1,016,666 15,973,551 599,985 3,193,884 243,313 2,102,997	21,332,098 17,779,776 60,323,486 13,181,743 1,093,364 13,770,121 1,131,264 2,226,731 236,383 1,545,047 515,358
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FREEWAY CONSTRUCTION

F1 - Warringah Freeway

Construction of the second stage of the Warringah Freeway between Miller Street and Willoughby Road was continued during the year.

The construction of a prestressed concrete dual carriageway bridge over Brook Street was completed in August 1976. While construction continued Brook Street was open to traffic at all times.

Work is proceeding on the construction of a pedestrian overbridge over the freeway linking Willoughby Road and Slade Street Naremburn and is scheduled for completion in November 1977.

During May 1977 a major traffic route alteration was put into operation following the closure of Chandos Street Cammeray to southbound traffic. Southbound freeway traffic was diverted from Brook Street on to a loading ramp on to the Warringah Freeway.

F3 - Sydney-Newcastle Freeway

(a) North Western Freeway Section

Work on the section of the North Western Freeway between Erskine Street City and Harris Street Pyrmont continued during the year.

Work on columns and headstocks has advanced to a stage to permit contracts to be entered into for the fabrication of steel girders and concrete deck construction for a section of the westbound viaduct to Harris Street.

During the year the extension of Pyrmont Street to Quarry Street and the construction of the service road between Sussex Street and Day Street were completed and opened to traffic.

Work is continuing on the deviation of Day Street and it is expected that northbound traffic will be diverted on to the deviation between Liverpool and Druitt Streets during October 1977.

(b) Ourimbah-Doyalson Section

Work on site investigations and the establishment of a site office continued during the year for the section of the freeway, the National Route linking Brisbane to Sydney, from Ourimbah to Doyalson.

F4 - Western Freeway

Construction of the Western Freeway continued between Wentworth Road Homebush and Wentworth Street Clyde. Due to fund restrictions work was limited to the contruction of Haslam Creek bridges, major public utility adjustments and earthworks.

F5 - South Western Freeway

The section from Yanderra to Aylmerton was completed and opened to traffic on 24 May 1977.

Work continued by direct control on the section from Kenny Hill (54.4 km south of Sydney) to the Nepean River at Pheasants Nest (77.2 km south of Sydney).

Work commenced on the section from the Nepean River at Pheasants Nest to Avon Dam Road and work continued from Avon Dam Road to Yanderra partly by contract and partly by direct control.

ROAD CONSTRUCTION

COUNTY OF CUMBERLAND

The progressive improvement of State Highways and Main Roads throughout the County of Cumberland was continued during the year. Principal works that were carried out during the year are listed below.

Princes Highway - State Highway No. 1

Improvements have been carried out on the drainage system of the Sutherland By-pass. The final asphalt surfacing has yet to be completed.

◄ Opposite page

Top left: Construction of the new Bondi Junction By-pass will allow through traffic to pass to the north of the shopping and commercial centre in Oxford Street. Work was commenced in February 1977 and includes the provision of a 456 m long viaduct between Vernon and Adelaide Streets.

Bottom left: Work is proceeding on construction of the North Western Freeway in the Darling Harbour area.

Top right: Reconstruction 12-16 km east of Coolabah on the Coolabah-Brewarrina Road (Trunk Road No. 70).

Centre right: Taking the twists out of the Princes Highway just south of Bega.

Bottom right: Recently completed reconstruction and bituminous surfacing on the New England Highway, approximately 20 km north of Glen Innes.

A short length of Bulli Pass was reconstructed to provide four lanes over an area subject to slip.

Hume Highway - State Highway No. 2

Replacement of broken concrete slabs was completed at various locations between Chelmsford Avenue Croydon and Prospect Creek at Lansvale.

Reconstruction of the damaged bitumen pavement between Prospect Creek at Lansvale and Hinkler Avenue Liverpool was commenced.

Reconstruction of the intersection of the Hume Highway and Cowpasture Road at Leppington was completed.

Also completed was the reconstruction of the intersection of the Hume Highway and Bringelly Road at Leppington

Work continued on major improvements to the junction area at the intersection of the Hume Highway and Main Road No. 178 at Narellan. The work commences on the Highway approximately 54.7 km south of Sydney and extends southward for approximately 1 km. When completed, the junction will feature a bridge to carry northbound traffic over the intersection, two lane carriageways in each direction and island medians to improve the traffic flow.

Great Western Highway - State Highway No. 5

Replacement of broken concrete slabs on Parramatta Road at various locations between Burwood Road Burwood and Church Street Parramatta was completed. Reconstruction of the damaged bitumen pavement on the westbound lanes between Beresford Road and Greystanes Road at Greystanes was completed.

Construction of the northern side strip between Charles Hackett Drive and Neale Street at St. Marys was completed.

Construction of side strips between York Street and Old Bathurst Road at Emu Plains was completed.

Work continued on the construction of a climbing lane at Pritchard Street Wentworth Falls.

Asphaltic concrete strengthening and reshaping was carried out on the sections between 35.2 km to 96.7 km west of Parramatta. Heavy patching work was also carried out on sections between 35.2 km to 96.7 km west of Parramatta.

Work commenced on the widening of formation to 13.4 m and pavement to 7.4 m on a section of the highway between 35.5 km and 74.3 km west of Parramatta.

Pacific Highway - State Highway No. 10

Reconstruction of the damaged bitumen pavement between Hornsby Street and Cam Street at Waitara was commenced.

Pennant Hills Road and Woodville Road - State Highway No. 13

The relocation of the junction of Villawood Road opposite Llewellyn Avenue on Woodville Road at Villawood was completed.

Reconstruction of the southbound side strip between Hewitt Avenue and Redgrave Road at Normanhurst was completed.

Castle Hill Road - Main Road No. 156

Widening to four lanes between New Line Road and Victoria Road was completed at West Pennant Hills, and work continued with the widening to four lanes between Rogans Hill and Glen Road at Castle Hill.

Lane Cove Road, Ryde Road and Mona Vale Road – Main Road No. 162

Reconstruction of the intersection with Waterloo Road at North Ryde commenced as part of the widening of Waterloo Road.

Reconstruction to provide six lanes between Highlands Avenue Pymble and Cowan Road St. Ives is continuing. On this section work was completed on the southbound carriageway between Hope Street and Bromley Avenue and construction of the northbound carriageway between Bromley Avenue and Hope Street and the retaining wall between Highlands Avenue and Bromley Avenue is continuing. Work was completed between Hope Street and Cowan Road.

Reconstruction to provide six lanes between Killeaton Street and Richmond Avenue St. Ives is continuing.

Property and public utility adjustments were completed between Ayres Road and Richmond Avenue. Construction of the northbound carriageway on this section is well advanced.

Condamine Street, Pittwater Road and Barrenjoey Road - Main Road No. 164

Reconstruction and widening to six lanes of Condamine Street from Kenneth Road to Campbell Parade was

Construction in cement concrete of the eastern shoulder of Pittwater Road between Long Reef Beach access road and Lismore Avenue was completed.

Reconstruction of Barrenjoey Road to provide six lanes through Mona Vale Shopping Centre was completed. This

included improvement and channelisation of the intersection with Mona Vale Road (Main Road No. 162) and the intersection with Pittwater Road (Main Road No. 174).

Forest Road - Main Road No. 168

Reconstruction to six lanes of Forest Road between Mavis Avenue and Collaroy Avenue, Peakhurst was completed. This work includes the reconstruction of the intersection with Stoney Creek Road.

The reconstruction of Forest Road between Lime Kiln Road and Kims Avenue Lugarno was completed.

Bondi Junction By-pass - Main Road No. 172

The construction of a new by-pass road between Moncur Road and Bondi Road at Bondi Junction was commenced in February 1977 and is planned for completion to fit in with the completion of the Eastern Suburbs railway busrail terminal under construction at Bondi Junction.

Work is in hand on the construction of a four lane viaduct structure 456 m in length, between Vernon and Adelaide Streets. Work commenced on public utility adjustments and reinforced earth and mass concrete walling.

The work is being undertaken by both contract and direct control and a new site office has been established in Saber Street Woollahra.

Campbelltown Road and Appin Road - Main Road No. 177

Work commenced on a deviation between F5 and Campbelltown to provide an improved alignment and approaches to the replacement structure at Bow Bowing Creek.

Work continued on the construction of the southbound carriageway of the Moore-Oxley Streets deviation to provide a by-pass of Queen Street Campbelltown.

The construction of the intersection with Main Road No. 610 was completed.

Windsor Road - Main Road No. 184

Widening continued to six lanes between Daking Street and Briens Road Northmead.

Construction of the approaches to the new bridge over South Creek at Windsor continued.

Joseph Street - Main Road No. 190

Reconstruction to provide dual carriageways from the Bankstown Municipal Boundary (Lewis Street) northwards to Amy Street, Regents Park was continued. Work commenced on the construction of dual carriageways between Amy Street and Leila Street at Lidcombe.

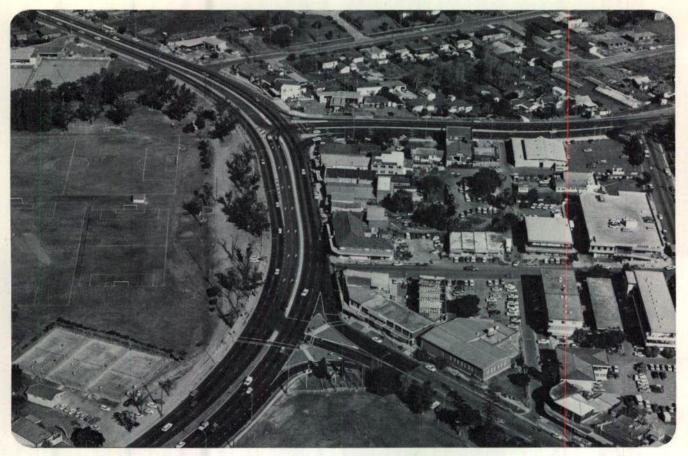
Delhi Road, Millwood Avenue and Fullers Road - Main Road No. 191

Construction of a third lane on Delhi Road between the Lane Cove River and the Crematorium was completed. The reconstruction of the intersection of Millwood Avenue and Fullers Road was completed.

Aston Street and Rydalmere Avenue – Main Road No. 309

Reconstruction to provide dual carriageways between Eleanor Street and Hassall Street at Rosehill was commenced.

Widening to six lanes between the bridge on Aston Street over Parramatta River and Kissing Point Road (Main Road No. 574) was completed. This work is part of the major work on constructing a new route, the North Parramatta By-pass, (County Road No. 5037) between Rydalmere and Northmead.



Reconstruction of Barrenjoey Road through Mona Vale Shopping Centre has been completed. This work included improvements and channelisation at the intersections with Mona Vale Road (in the background) and with Pittwater Road (in the foreground).

The Boulevarde and Kings Georges Road — Main Road No. 315

Resheeting with asphaltic concrete between Redmyre Road and Carrington Avenue was completed.

Minor kerb and gutter, asphalt, landscaping and traffic facilities work were carried out to complete the reconstruction of the junction with Punchbowl Road.

Pavement over the new railway bridge and associated medians, kerb and guttering were carried out to complete the construction of the approaches to the new bridge over the railway at Wiley-Park.

Reconstruction of the intersection with Canterbury Road extending southwards to Paton Avenue is nearing completion. Southbound pavement widening to Stern Place is also well in hand.

Marlborough Road and Richmond Road -Main Road No. 318

Reconstruction and widening to four lanes between Parramatta Road (State Highway No. 5) and Arthur Street (Secondary Road No. 2057) at Flemington was completed. This work included the construction of the approaches to the new railway overbridge at Flemington.

Warringah Road - Main Road No. 328

Reconstruction and widening to provide six lanes between Daines Parade and Pittwater Road was completed.

Construction of a New Jersey type median barrier at the reverse curves on the north approach to Roseville Bridge was completed.

Epping Road - Main Road No. 373

Construction of dual carriageways between Delhi Road (Main Road No. 191) and Shrimptons Creek (including the new interchange at the intersection of Epping Road and

Lane Cove Road (Main Road No. 162) at North Ryde) was continued.

Heathcote Road - Main Road No. 512

Work continued on the construction of climbing lanes between the Princes Highway and New Illawarra Road. Approximately 245 m of climbing lane east of the intersection with New Illawarra Road was completed and opened to traffic.

Elizabeth Drive - Main Road No. 515

Reconstruction and widening to six lanes between Copeland Street (Main Road No. 608) and Maxwells Avenue Mt. Pritchard was continued.

Copeland Street - Main Road No. 608

Work continued with the reconstruction and widening to a six lane divided carriageway between Hoxton Park Road and Hinkler Avenue at Liverpool.

The Horsley Drive - Main Road No. 609

The reconstruction and widening to four lanes between Fairfield Street and Alan Street at Fairfield was commenced. The work is being carried out in conjunction with the widening of the existing railway overbridge at Fairfield.

COUNTRY

Major works completed or in progress on State Highways include those listed below.

Princes Highway - State Highway No. 1

Work was completed on the reconstruction of the deviation at Jaspers Creek 32.2 km to 34.3 km south of Kiama. Work is almost complete on the reconstruction at Meroo

Meadow from 35.9 km to 39.1 km south of Kiama including the approaches to the new Tullian Creek Bridge.

The final seal was placed on the climbing lane for southbound traffic between 97.4 km and 99.2 km south of Batemans Bay, which was completed to prime stage and opened to traffic.

Work continued on the reconstruction of the section 2.7 km to 9.0 km south of Bega.

Work on the construction of a climbing lane between 54.1 km and 55.3 km south of Bega continued.

Hume Highway - State Highway No. 2

Work was completed on the reconstruction, to an improved alignment, between Razorback Range and Picton 76.3 km to 81.6 km south of Sydney.

The pavement through the Picton subway was widened and the adjoining length of highway reconstructed and strengthened.

Construction was completed of a major junction of the Hume Highway with the F5 — South Western Freeway at Yanderra. Included in the construction of the junction was a 1.1 km deviation of the highway which now also serves as a local access road.

Work was commenced on the reconstruction between the South Western Freeway at Aylmerton and Mittagong (14.0 km to 20.1 km north of Mittagong) to provide four lanes on an improved alignment and grading.

Work is proceeding on the construction of dual carriageways between Exeter Road and Paddys River 29.3 km and 39.8 km south of Mittagong.

The construction of dual carriageways on an improved alignment between Paddys River and Uringalla Creek 40.9 km to 44.4 km south of Mittagong continued and the work is nearing completion.

Construction of dual carriageways is continuing in association with the construction of dual carriageway bridges over the Main Southern Railway Line, the Mulwaree Ponds and the Crookwell Railway Line at North Goulburn. These bridges are now complete and dual carriageways are available to traffic.

Work commenced on the construction of the approaches to the new bridge over Fish River near Yass. The new structure over the Fish River is complete.

Work continued on the extension of dual carriageways between 6.4 km and 10.6 km west of Yass. Both carriageways are now open to traffic between 8.2 km and 10.6 km west of Yass.

Work was completed on the construction of the approaches to the new bridge over Connors Creek, 35.8 km west of Yass. This work forms part of the ultimate north-bound carriageway over this length.

Work continued on the construction of the approaches to the new bridge over the Murrumbidgee River at Gundagai. Stage I of the work, which included the whole of the southern approaches, and part of the northern approaches utilising the ultimate onloading ramp from Gundagai and Sheridan Street, was opened to traffic on 25 March 1977. Work is now in progress on Stage II, which will complete the deviation around Gundagai.

Widening and strengthening of the pavement on the existing alignment and grade is being carried out between 28.0 km and 37.0 km south of Gundagai.

Realignment and reconstruction is progressing on the section between 3.6 km to 7.7 km south of Tarcutta which includes approaches to the new bridge over Comatawa Creek. This section is within the overall length between 3.6 km and 20.4 km south of Tarcutta which is programmed for reconstruction.

Reconstruction of the section between 53.5 km and 60.8 km south of Holbrook was completed with the exception of some minor works.

Federal Highway - State Highway No. 3

Work is continuing on the construction of dual carriageways between 14.3 km and 22.2 km south of Goulburn.

The section of the southbound carriageway between 17.1 km and 19.5 km south of Goulburn, including the new bridge over Wologorong Creek 18.8 km south of Goulburn, is open to two-way traffic.

Snowy Mountains Highway - State Highway No. 4

Remedial culvert and drainage work to alleviate flooding along the Blowering Dam deviation, 9 km east of Tumut, was completed.

Reconstruction between 14.0 km and 17.7 km west of Tumut was completed.

Great Western Highway - State Highway No. 5

Work continued on the construction of the appraoches to the new bridge over the Lett River.

Work commenced on the approaches to the Marrangaroo Creek Bridge 2.3 km to 6.1 km west of Lithgow. Work continued on the reconstruction and sealing of the Diamond Swamp section 31.9 km to 34.5 km west of Lithgow.

Mid Western Highway - State Highway No. 6

Construction of the approaches to the Evans Plains Creek Bridge 9.6 km west of Bathurst was completed. Pavement widening and strengthening 28.3 km to 33.8 km west of Bathurst is in progress.

Construction of a deviation of the route of the highway to by-pass the historic town of Carcoar was completed.

Work is in progress on pavement widening and strengthening 10.3 km to 12.7 km east of Cowra. Work is nearing completion on widening the formation, and strengthening the pavement 14.6 km to 15.3 km and sealing 13.2 km to 14.6 km east of Cowra.

Work is nearing completion of the reconstruction of the highway between Fitzroy and Carleton Streets in Cowra.

Widening formation and pavement strengthening 29.0 km to 32.0 km east of Grenfell was commenced. The section 49.2 km to 51.1 km was completed and work is in progress 52.6 km to 54.5 km west of Grenfell.

Mitchell Highway - State Highway No. 7

Work is in progress on widening formation and pavement strengthening 2.4 km to 5.2 km east of Orange.

Work was temporarily suspended on the reconstruction and bituminous surfacing 13.4 km to 20.3 km north of Molong. Pavement strengthening and widening at various locations 49.9 km to 55.5 km north of Molong were completed. Reconstruction and bituminous surfacing 57.9 km to 63.1 km north of Molong is in progress.

Reconstruction and bituminous surfacing of the pavement at the level crossing at Trangie is nearing completion.

Reconstruction of the narrow pavement was completed between 60.0 km and 75.8 km east of Nyngan and between 6.1 km and 11.3 km north of Bourke.

Reconstruction and bituminous surfacing was completed from 18.7 km to 20.9 km and is in progress between 16.8 km and 18.7 km south of Bourke.

Barrier Highway - State Highway No. 8

Reconstruction and widening of Marshall Street Cobar between Barton and Bathurst Streets including major drainage improvements was completed.

Construction of the approaches to the four new bridges over the Darling River Flood Plain between 1.7 km and 6.4 km east of Wilcannia continued.

The formation between 2.8 km and 9.2 km east of Broken

Hill was reconstructed and sand primed. The final seal will be completed on construction of the two new bridges over Willa Willyong Creek.

New England Highway - State Highway No. 9

Construction of dual carriageways 9.8 km to 12.1 km west of Hexham (Three Mile Creek) is nearing completion.

Widening of the existing formation to 13.4 m on selected sections of existing alignment 25.7 km to 27.4 km west of Maitland was completed.

Reconstruction of the 6.9 km deviation at Muscle Creek near Muswellbrook was completed.

Construction of the approaches to two temporary Bailey bridges at the Aberdeen Railway Overbridge site 15.5 km north of Muswellbrook was completed. Work was completed on widening of the shoulders and extension of culverts 16.6 km to 23.7 km and 26.9 km to 31.4 km north of Muswellbrook. Work commenced on the widening of shoulders and the extension of culverts 31.4 km to 34.0 km and 58.2 km to 62.3 km north of Muswellbrook.

Construction of the approaches to the new bridge over Campbells Creek from 62.8 km to 64.3 km north of Muswellbrook was undertaken and opened to traffic in June. Improvements to widen the formation of the highway on the Liverpool Range were carried out in conjunction with bridge approaches.

Work was completed with culvert extensions and shoulder widening on selected lengths 4.8 km to 17.7 km north of Tamworth. Major reconstruction to provide dual carriageways on the first Moonbi Range 24.9 km to 30.1 km north of Tamworth continued. Earthworks were completed from 27.7 km to 30.1 km and a major 17 m deep granite rock cut at 27.2 km commenced.

Work was completed on pavement and formation widening between 62.3 km and 70.4 km north of Tamworth. The work included the construction of climbing lanes over particular sections. Work was completed on the access to the Thunderbolts Rock Reserve, 82 km north of Tamworth. Work was commenced on the construction of a deviation between Uralla and Barleyfields, 90.2 km to 94.1 km north of Tamworth.

Reconstruction and bituminous surfacing between 3.8 km and 5.8 km and between 17.7 km and 22.8 km north of Glen Innes was completed.

Work commenced on reconstruction and bituminous surfacing between 5.8 km and 9.6 km north of Glen Innes.

Work continued on reconstruction and bituminous surfacing between 3.3 km to 8.6 km south of Tenterfield.

Pacific Highway - State Highway No. 10

The restoration of a slip at 71.6 km north of Sydney near Mooney Creek was completed.

Construction of a slow speed lane for northbound traffic at Wallarah Hill 34.7 km to 36.9 km north of Gosford was completed.

Construction of approaches to the bridge over Traynors Creek 3.7 km north of Bulahdelah continued.

Work was completed on the reconstruction and widening of distressed pavement from 12.0 km to 15.0 km north of Taree.

Construction continued on a deviation in the approaches to a new bridge at Two Mile Creek 23.0 km to 24.8 km north of Taree.

Reconstruction and widening of distressed pavement between Passionfruit Creek and Kew 39.6 km to 50.0 km north of Taree was completed.

Construction continued on a deviation over the Cooperabung Mountain between 96.5 km and 100.5 km north of Taree.

Reconstruction between 14.0 km and 19.5 km north of

Kempsey with continuously reinforced concrete pavement and sealed shoulders was completed.

The reconstruction and widening of distressed pavement at Eungai 33.5 km to 37.8 km north of Kempsey was commenced.

Reconstruction of a deviation at Double Crossing Creek between 19.0 km and 24.0 km north of Coffs Harbour continued.

Construction of the approaches to the new bridge over Swan Creek 4.0 km to 6.3 km north of Grafton was commenced.

Construction of the approaches to a new railway overbridge at Bangalow was completed.

Construction of a new carriageway for northbound traffic at Oak Avenue between 14.8 km and 19.8 km north of Murwillumbah was completed.

Oxley Highway - State Highway No. 11

Reconstruction east of Walcha was completed from 103.9 km to 111.1 km west of Wauchope. A dust-free road surface between Walcha and the coast was completed and the short sections with a prime seal will receive final bitumen seals in the next spraying season.

Reconstruction is continuing from 40.1 km to 42.2 km west of Tamworth, including extension and enlargement by contract of an existing reinforced concrete box culvert at Long Hollow Gully, 40.8 km west of Tamworth.

Reconstruction is continuing from 42.4 km to 44.4 km west of Tamworth including the approaches to the new bridge and reinforced concrete box culvert at Menedebri Creek.

The approaches to Coxs Creek bridge 66.8 km to 68.0 km east of Coonabarabran were commenced and completed to primer seal stage.

Widening of the pavement in the section 15.3 km to 18.2 km east of Coonabarabran was completed.

Gwydir Highway - State Highway No. 12

Restoration and widening of existing pavement for short distances totalling 5.0 km between 16.8 km and 38.8 km east of Glen Innes is continuing and 4.5 km of this length was completed.

Minor realignment and widening of the existing pavement to 6.7 m between 3.7 km and 5.7 km west of Glen Innes was completed.

Strengthening and widening of the existing pavement east of Inverell is continuing. Work is in hand on the sections 11.7 km to 13.5 km and 14.8 km to 17.4 km east of Inverell.

Strengthening and widening the existing pavement of 3.7 m width to 6.7 m width between 27.6 km and 41.4 km west of Warialda commenced.

Reconstruction and bituminous surfacing between 59.6 km and 64.4 km west of Moree is continuing.

Sturt Highway - State Highway No. 14

Reconstruction of the section 33.4 km to 41.0 km east of Wagga Wagga was completed during the year. Reconstruction of the adjoining section 23.2 km to 33.4 km east of Wagga Wagga, is continuing.

Reconstruction and bituminous surfacing on improved alignment and widening of formation was completed from 25.9 km to 28.9 km east of Balranald. Work was commenced on the section from 28.9 km to 33.8 km east of Balranald.

Restoration and bituminous surfacing of stabilised pavement from 27.2 km to 31.4 km west of Hay was completed.

Widening and strengthening of the narrow pavement on the sections from 45.5 km to 46.7 km and 47.9 km to 48.7 km west of Hay was completed. The shoulders in between these two lengths were widened and shoulder sealing was completed throughout from 45.5 km to 48.7 km west of Hay.

Widening of formation and sealing of shoulders was completed between 0.2 km and 2.0 km west of Hay.

Final seal of the section 73.4 km to 78.9 km east of Euston was completed.

Reconstruction was completed between $0.0~\rm km$ and $2.8~\rm km$ east of Euston. Final seal of the section $27.3~\rm km$ and $32.5~\rm km$ west of Euston was completed.

Reconstruction commenced between 38.2 km and 47.5 km east of Mildura. Reconstruction between 34.0 km and 38.2 km east of Mildura was completed.

Barton Highway - State Highway No. 15

Work continued during the year on a programme of pavement strengthening and formation widening. The work undertaken includes formation widening between 22.7 km and 24.2 km south of Yass to provide a pavement width of 7.4 m, and shoulder widening and drainage improvement between 33.8 km and 36.6 km south of Yass. This work is a continuing programme throughout the length of the Barton Highway to provide improved traffic facility.

Bruxner Highway - State Highway No. 16

Construction of the Ballina Street deviation in Lismore continued.

Strengthening and widening the existing pavement of 3.7 m width to 6.7 m width between 9.6 km and 14.3 km west of Tenterfield commenced.

Reconstruction and bituminous surfacing between 51.5 km and 57.3 km west of Tenterfield is continuing. Reconstruction and bituminous surfacing between 58.0 km and 62.8 km west of Tenterfield was completed.

Construction work was effected on several sections of the deviation between Yetman and Boggabilla. Approximately 60% of the deviation has been completed to sub-grade level. Widening and bituminous surfacing of the 7 km of existing pavement from Boggabilla to its junction with the deviation has been completed.

Newell Highway - State Highway No. 17

Restoration of the existing pavement between 14.6 km and 15.4 km south of Moree was completed.

Work continued on the reconstruction and bituminous surfacing between 0.4 km and 8.4 km west of Boggabilla. The final seal was completed on the approaches to the Namoi River bridge 1.9 km to 2.5 km south of Narrabri.

Work commenced on the construction of the approaches to the Narrabri Creek and Rivulet bridges, at 0.2 km to 0.7 km south of Narrabri.

Pavement widening and improvement of alignment commenced between the southern approach to Fitzgeralds Bridge and the junction of Main Road No. 377 (section II, 5.0 km to 7.1 km south of Forbes). Section I, 3.0 km to 5.0 km south of Forbes was completed.

Pavement strengthening and widening 16.1 km to 21.6 km north of Forbes was completed.

Reconstruction and bituminous surfacing between Baker Street and Hartigan Avenue in Parkes was commenced. Reconstruction of the section of the highway in Clarinda Street Parkes, was completed. Reconstruction and bituminous surfacing 31.7 km to 34.8 km north of Parkes is partially complete.

Approaches to the new box culvert at Turn Back Jimmy Creek were constructed between 13.7 km and 14.7 km north of Jerilderie. Formation widening, shoulder and pavement edge reconstruction, plus shoulder sealing was completed from 22.9 km to 39.3 km north of Jerilderie. Reconstruction and bituminous surfacing was completed from 5.8 km to 8.9 km north of Finley.

Castlereagh Highway - State Highway No. 18

Reconstruction is continuing between 80.5 km and 103.0 km north of Walgett.

Monaro Highway - State Highway No. 19

Work commenced on the reconstruction of the section 78.7 km to 82.0 km south of Canberra, which includes the approaches to a new bridge over the Bredbo River at Bredbo.

Reconstruction of the section 82.0 km to 89.0 km south of Canberra continued and the whole of the work was completed to prime stage and opened to traffic.

Gravelling and sealing the length between 17.1 km and 34.3 km south of Bombala commenced. Approximately 40 per cent of the work has been completed.

Riverina Highway - State Highway No. 20

Work was completed on the reconstruction and bituminous surfacing from 4.3 km to 6.7 km west of Finley.

Reconstruction of shoulders and pavement edges, including shoulder sealing, was completed from 9.1 km to 28.0 km east of Deniliquin.

Reconstruction of Chanter Street Berrigan was completed.

Cobb Highway - State Highway No. 21

Construction and bituminous sealing of the southern approach to the existing bridge over the Lachlan River at Booligal from 76.8 km to 77.7 km north of Hay was completed.

Reconstruction of failed pavement at the channelised intersection with State Highway No. 20 (Riverina Highway) at 2.5 km north of Deniliquin commenced.

Reconstruction from 11.1 km to 33.0 km south of State Highway No. 8 continued.

Charlestown to Sandgate - State Highway No. 23

Strengthening and resheeting of Blue Gum Road Jesmond 8.6 km to 9.4 km north of Charlestown commenced.

Mount Lindesay Highway - State Highway No. 24

Reconstruction and bituminous surfacing between 9.4 km and 11.1 km north of Woodenbong is continuing.

Illawarra Highway - State Highway No. 25

Reconstruction to improve the alignment and grading between Wells Creek and the Hume Highway 58.9 km to 63.9 km from State Highway No. 1 continued.

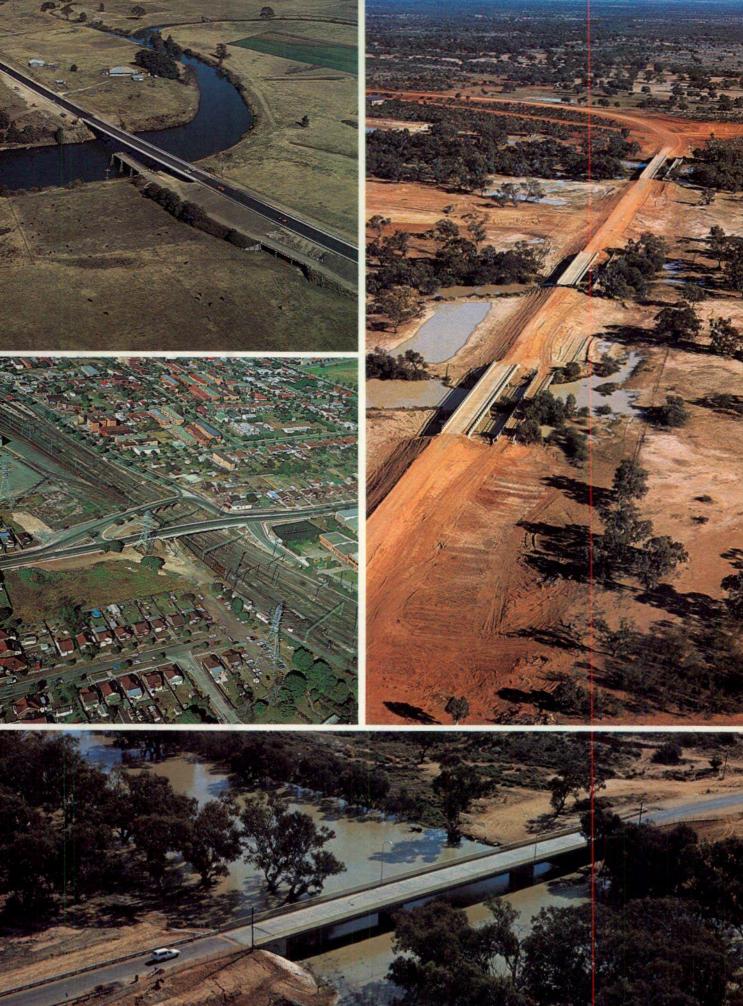
Opposite page ▶

Top left: On the Pacific Highway north of Grafton a new prestressed concrete girder bridge over Swan Creek has been opened to traffic.

Centre left: A new prestressed concrete girder bridge across the railway lines at Marlborough Road Homebush provides better access to the Farm Produce Market at Flemington.

Right: At Wanaaring three new bridges have been built over the Paroo River and the flood channels known as the Paroo By-washes on the road to Bourke (Main Road No. 405).

Bottom: This new two lane bridge over the Darling River at Menindee on the Trunk Road No. 68 has eliminated the need for road traffic to share an old road-rail bridge.



BRIDGE CONSTRUCTION

During the year 39 bridges, one pedestrian structure and 32 bridge size box culverts (i.e. with a waterway width of six metres or more) were made available to traffic. In addition, widening works were completed on four structures, two bridges and two box culverts of which one bridge was widened for extra lanes.

The 73 structures, completed and opened to traffic during 1976-77, are situated on the various road classifications as set out in the table alongside.

At the end of the year 83 bridges, 23 culverts and three pedestrian structures were under construction or completed but not opened to traffic. In addition, widening of 12 structures was in hand, three for the provision of extra lanes. Of these 121 bridgeworks, 40 were completed but were not opened to traffic because associated roadworks were incomplete.

Of the 40 bridgeworks completed but not opened to traffic, 19 bridges were built by the Department (15 by contract) and seven bridges by Councils (5 by contract). Six of the culverts were built by the Department (5 by contract) and eight culverts by Councils (3 by contract).

	Bridges Cu	Bridge Size Ilverts	Pedes- trian Struc- tures	Widen- ing Extra Lanes	Total
Freeways	8	_	_	-	8
State Highways	12	12	_	-	24
Trunk Roads	8	4	_	_	12
Main Roads	7	15	1	1	24
Developmental Works, Developmental Roads and Unclassified					
Roads	3	1	_	-	4
County Roads	1	-	_	-	1
Tourist Roads	-	-	-	-	_
TOTAL	39	32	_	_	_

PRINCIPAL BRIDGEWORKS COMPLETED AND OPENED TO TRAFFIC

F5 - South Western Freeway

Construction by contract of twin single prestressed concrete plank bridges over the Main Southern Railway Line north of Yanderra was completed. Each new structure is 15.5 m long and provides two traffic lanes.

Construction by contract of twin single span prestressed concrete girder bridges over the Main Southern Railway Line south of Yanderra was completed. Each new structure is 20.7 m long and provides two traffic lanes.

Construction by contract of twin three span steel arch framed girder bridges over State Highway No. 2 south of Yanderra was completed. Each new structure is 48.2 m long and provides two traffic lanes.

Construction of a four span prestressed concrete beam bridge over the Freeway on Main Road No. 179 at 59.3 km south of Sydney was completed. The new structure is 104.2 m long and provides two traffic lanes.

F6 - Southern Freeway

Construction by contract of a two span reinforced concrete bridge to carry Harvey Street over the Southern Freeway at Dapto was completed. The new structure is 46.9 m long and provides two traffic lanes and two footways.

Hume Highway - State Highway No. 2

Construction by contract of a four span continuous reinforced concrete bridge over Jones Creek on the Sheridan Street interchange in Gundagai was completed. The new bridge is 28.6 m long and provides three traffic lanes and two breakdown lanes.

Construction by contract of a 27 span composite steel trough girder and reinforced concrete bridge — Sheahan Bridge — over the Murrumbidgee River at Gundagai was completed and opened to traffic on 25 March 1977. The new structure is 1 133.6 m long and provides two traffic lanes.

Pacific Highway - State Highway No. 10

Construction by contract of a five span prestressed concrete girder bridge over Swan Creek 5.8 km north of Grafton was completed. The new structure is 128.6 m long and provides two traffic lanes and replaces two old timber beam bridges 92.4 m and 28.3 m long.

Oxley Highway - State Highway No. 11

Construction by contract of a six span prestressed concrete plank bridge over Coxs Creek 67 km east of Coonabarabran was completed. The new structure is 73.2 m long and provides two traffic lanes and replaces a narrow timber beam bridge 52.0 m long.

Trunk Road No. 51

Construction by contract of a seven span continuous steel girder and reinforced concrete bridge over the Shoalhaven River (Warri Bridge) 12.8 km north of Braidwood was completed. The new structure is 196 m long and provides two traffic lanes and a footway and replaces an old single lane timber truss bridge 148 m long.

Trunk Road No. 68

Construction by contract of a six span prestressed concrete girder bridge over Mooni River at Gundabloui 48 km north of Collarenebri was completed. The new structure is 128 m long and provides two traffic lanes and eliminates an open causeway.

Construction by contract of a three span steel box girder and reinforced concrete bridge over the Darling River at Menindee was completed. The new structure is 118.4 m long and provides two traffic lanes and eliminates the use by road traffic of the railway bridge.

Trunk Road No. 74

Construction by contract of a four span prestressed concrete girder bridge over Blicks River near Dundurabbin 86 km south of Grafton was completed. The new structure is 91.4 m long, provides two traffic lanes and replaces a 96 year old single lane timber truss bridge 69 m long.

Trunk Road No. 89

Construction by contract of a 17 span prestressed concrete plank bridge over Backwater Cowal 4.4 km south of Narromine was completed. The new structure is 93.5 m long and provides two traffic lanes.

Trunk Road No. 91

Construction by contract of a three span steel girder and reinforced concrete bridge over Honeysuckle Creek 25.4 km from State Highway No. 1 was completed. The new structure is 64.0 m long and provides two traffic lanes and replaces a timber beam bridge 30 m long.

Main Road No. 206

Construction by contract of a six span prestressed concrete plank bridge over Tucklan Creek 9.6 km west of Dunedoo was completed. The new structure is 65.1 m long and provides two traffic lanes and eliminates a concrete causeway.

Main Road No. 271

Construction by contract of an eight span prestressed concrete low level bridge over Moruya River 3.9 km west of Moruya was completed. The 85.4 m long structure provides two traffic lanes and replaces a low level single lane timber beam bridge 86.3 m long washed away by floods in 1974

Main Road No. 315

Construction by contract of a seven span prestressed and reinforced concrete bridge over King Georges Road near South Hurstville Public School was completed. The new structure is 69.8 m long and provides a single lane walkway.

Main Road No. 318

Construction by contract of a three span prestressed concrete girder bridge over the railway at Marlborough Road, Homebush West was completed. The new structure is 72.4 m long and provides two traffic lanes and one footway.

Main Road No. 405

Construction by contract of a nine span composite steel girder and reinforced concrete bridge over the Paroo River at Wanaaring was completed. The new bridge is 109.7 m long and provides two traffic lanes and replaces a timber beam bridge 103 m long.

Secondary Road No. 2084

Construction by contract of a four span prestressed concrete girder bridge over the railway at Seven Hills was completed. The new structure is 83.2 m long and provides four traffic lanes and eliminates a level crossing.

County Road No. 5037

Construction by contract of a single span reinforced and prestressed concrete bridge over Belmore Street, Dundas was completed. The new bridge is 29.3 m long and provides for six traffic lanes on the route of the North Parramatta By-pass.

MAINTENANCE OF ROADS AND BRIDGES

ROADS

Further damage to that sustained to many road pavements in 1976 was caused during wet weather and repeated flooding in the first half of 1977. Prolonged inundation softened the foundations of roads and when continued to be used by trucks, even when partly covered by water, extensive damage occurred.

In the Metropolitan Division, work continued on resheeting and strengthening deteriorated asphalt pavements and heavy patching was carried out preparatory to asphalt resheeting on many main roads. An extensive programme of jointing and mudjacking of old and sometimes broken slabs was carried out. Work included slabs on the Hume Highway, King Georges Road, Parramatta Road, Canterbury Road and Fitzgerald Avenue.

In Country Divisions, intensive maintenance of shoulders and edges caused by narrow pavements and increased volumes of heavy traffic meant that an increased proportion of funds was channelled towards maintenance works with a corresponding decrease in the amount of funds available for new construction and reconstruction works.

Roadside improvement works were continued during the year and tree planting was carried out within road reserves on a number of highways in the State. Maintenance of trees and grass on landscaped areas of freeway type roads was continued and rest areas were maintained on country highways.

During the winter months snow clearing was undertaken by the Department's forces on the Snowy Mountains Highway (State Highway No. 4), the Kosciusko Summit Road (Main Road No. 286) and the Yarrangobilly Caves Road (Main Road No. 324). Maintenance and snow clearing of certain unclassified roads in the Kosciusko National Park were also undertaken on behalf of the National Parks and Wildlife Service, thus providing access to the snow-fields.

BRIDGES

At 1 July 1976 there were 5,596 bridges with a total length of 186.2 km of all types on classified roads in this State. Bridge maintenance during 1976-77 was carried out by the Department and Councils, the Department generally undertaking the work on State Highways, Ex-National Bridges and Special Subsidy Works.

The work generally consisted of the replacement of worn out decking and longitudinal sheeting on timber bridges together with repair or replacement of damaged trusses, and members such as piles, girders and bracings. Major flood conditions experienced throughout the year added greatly to maintenance commitments and caused extensive damage to several bridges.

Repainting of steel structures, timber trusses and handrails was carried out, whilst regular inspections of timber, steel and concrete bridges continued.

There were 11 vehicular ferry crossings in which the Department was financially involved; of these, three were operated by the Department's own organisation, three by contract to the Department and five by contract to Councils.

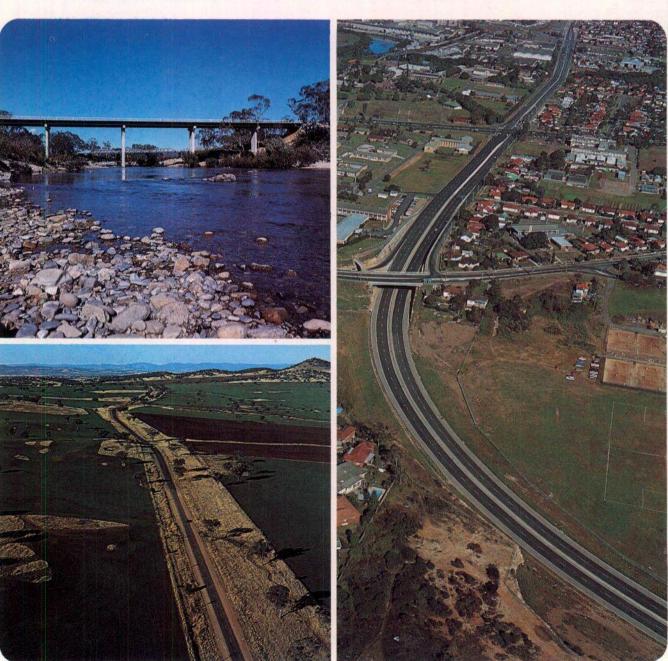
Funds provided for bridge maintenance and the caretaking and operation of vehicular ferries by the Department in 1976-77 totalled \$8,554,000.

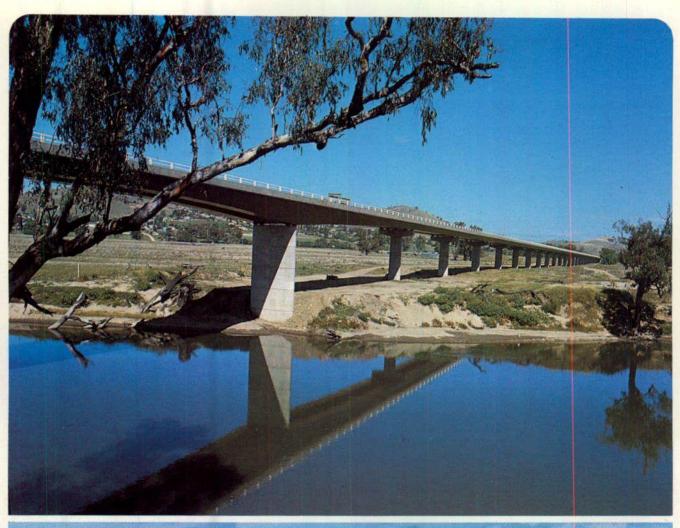
THAT WAS THE YEAR THAT WAS

The photographs on these pages show some of the major works that were completed during the past twelve months.

Warri Bridge (below left), which crosses the pleasant waters of the Shoalhaven River near Braidwood, highlights the Department's efforts to blend man-made structures with the natural environment. It was officially opened by the Commissioner for Main Roads, Mr. A. F. Schmidt, on Friday 19 November 1976. At bottom left is an aerial view of the Oxley Highway east of Gunnedah. With the completion of a section east of Walcha on 7 June 1977, the entire length of this Highway has now been sealed. This means that roadusers can now travel on a dust free surface between Nevertire in the central west and Port Macquarie on the coast. In the centre below is an aerial view of section of the North Parramatta By-pass which was opened to traffic on 6 June 1977.

On the right can be seen section of the longest bridge ever built by the Department and the second longest road bridge in New South Wales. Sheahan Bridge, over the Murrumbidgee River at Gundagai, was officially opened to traffic on 25 March 1977 by the Premier, the Hon. N. K. Wran, Q.C., M.L.A. The new structure is 1 134 m long and has 27 spans. Three spans cross the main river channel while 24 spans form a viaduct over the flood plain. The photograph bottom right shows part of the Department's \$21.8 million investment in the F5-South Western Freeway — between Yanderra and Aylmerton. This 13.5 km length was opened to traffic on 24 May 1977 and provides much safer and easier driving conditions (with less vehicle wear and less road-user cost) than the adjacent Hume Highway.







ADVANCE PLANNING

An essential part of the Department's activities in planning for the future needs of the State's Main Roads System is connected to taking and updating the roads and structure data inventory.

During the year two field survey teams equipped with instrumented vehicles commenced field surveys of classified roads in the State on an on-going basis. The extent of the field surveys is being co-ordinated with the requirements of the current Australian Roads Survey to provide information to the Commonwealth Bureau of Roads as to conditions at 30 June 1977, for the preparation of the Report on Roads in Australia 1978. The requirements of the proposed National Association of Australian State Road Authorities data bank and the Department's own data bank are also being taken into account in assessing the extent of the field surveys. Office updating of other

information required by the Commonwealth Bureau of Roads in respect of classified roads was also commenced during the year and a review commenced of the functional classification of roads in both urban and rural areas.

Work continued to develop a satisfactory alternative method of distributing moneys to councils, under the Roads Grants Act, for the construction and maintenance of rural local roads.

Work continued on the preparation of priority lists of works, to provide a pool of warranted projects from which future programmes of works can be selected, and means for objectively assessing the relative rating of such works.

A preliminary study was carried out, by consultants to the Department, for the development of meaningful techniques for incremental planning.

URBAN ROAD PLANNING

COUNTY OF CUMBERLAND

The Department's conceptual planning for development of the Main Roads System in the County of Cumberland was based on the County Road System depicted in the County of Cumberland Planning Scheme. Since the promulgation of the Scheme, investigation of each road proposed in the conceptual plan has proceeded and outline plans have been produced so that approximate limits of rights-of-way necessary to contain the future roads could be determined. Reservations, for each road, have then been sought in local Council Planning Schemes as these were being prepared. Also, since the promulgation of the County Scheme, the conceptual plan has been revised from time to time to meet changing needs and conditions, as have many of the outline design plans applicable to each road.

In 1974 the Sydney Area Transportation Study produced its findings on the future needs of Sydney's transport system up to the year 2000. The Study's recommendations are being studied by the Department so far as Main Roads are concerned.

In February 1977 the Government announced that reservations for certain lengths of future freeways would be deleted from planning schemes. Current planning work includes the development of proposals for connecting the non-abandoned lengths of freeway to the existing Arterial Road System.

The Urban Transport Advisory Committee is in the process of reviewing all corridors reserved in planning schemes for future transport improvements. The Department has been engaged in providing data on each road corridor to the Committee's investigatory staff.

A Commonwealth/State Committee was set up towards the end of 1976 to investigate major airport needs for Sydney. The Department is assisting the Committee in the determination of the road access requirements for the various airport sites under consideration.

Two major investigations completed during the year related to proposals for the replacement of the bridge over the Illawarra railway line at Sutherland and a new road from Chullora to Smithfield. In the former case, Council had asked the Department to investigate the possibilities of four bridge locations with various combinations of approach road alignments. In the latter case, after lengthy investigation, it was decided to abandon the concept of such a route.

Enquiries from owners, potential buyers and potential sellers, of property within the County of Cumberland, seeking information as to the effect of the Department's road proposals on property totalled 105,000 during the year. In addition, 260 applications for development on the reservations for future roads proposed by the Department were referred to the Department for its views.

Each year the Department receives requests from Councils for State classification of individual Council roads and streets. Investigations were completed for two such applications in the County of Cumberland during 1976-77. A further six are under consideration.

NEWCASTLE AND DISTRICT ARTERIAL MAIN ROADS SYSTEM

The Department's proposals for developing the Main Roads System in the Newcastle area are based on the County Road System depicted in the Northumberland County District Planning Scheme gazetted in 1960. Many of these County Road reservations will be used ultimately for future main roads. The Urban Transport Study Group is carrying out a transportation study for the Newcastle area. As such a study includes a review of the conceptual framework of the arterial road system the Department itself is not currently reviewing its plans at this level. The major planning work during the year has been concerned with developing outline designs for the Sydney-Newcastle Freeway north of Swansea.

WOLLONGONG AND DISTRICT ARTERIAL MAIN ROADS SYSTEM

The Department's proposals for satisfying future road needs in the Wollongong-Shellharbour area are included in the Illawarra Planning Scheme gazetted in 1968. As with Newcastle, the Urban Transport Study Group is also carrying out a transportation study for the Wollongong area. Consequently planning activity by the Department during the last twelve months has not been seriously concerned with conceptual planning for the Main Roads System. Investigations have proceeded into the most suitable location of the Southern Freeway south of Yallah and the Warilla-Oak Flats Main Road.

MAPPING

The Department's cartographic group produces road maps of various kinds primarily for internal use.

It also produces artwork for brochures and manuals. Currently, strip maps of the highway system are being updated and metric versions produced. Data gathering and drafting work was completed for four of the State's highways during the year.

COUNTRY ROAD LOCATION

The continuing process of designing and building roads and bridges involves the examination of existing facilities to ascertain their suitability for continued use, the costs of further maintenance, the requirements of present and future traffic, and the options for improvements. Aerial photography, ground surveys, and photogrammetric mapping are employed to produce the base plans for road and bridge investigations and preliminary designs.

During 1976-77 rural road location investigations were concentrated on the major highways, particularly those designated National Highways under Commonwealth legislation. On the Hume Highway, a deviation route was adopted for the length between Tumblong and the junction with the Snowy Mountains Highway, while investigations were continuing into the future locations in the vicinity of Mittagong and Berrima, between Goulburn and Yass, and in the Jugiong-Coolac area.

On the Sydney-Brisbane National Highway, the Department and the Commonwealth Bureau of Roads completed a joint study on the route between Wyong and Newcastle.

This resulted in the decision that the major route is to be located west of Lake Macquarie. Detailed location investigations are now proceeding on this section. The effect of future coal mining is a factor requiring careful study.

Another joint study is being carried out by the Department and the Commonwealth Bureau of Roads into the future connections between Canberra and the Hume Highway.

Aerial route photography during the year covered 840 km of State Highways. Project photography with a flight length of 375 km was also flown. Photogrammetric mapping was completed for 18 projects with a total area of 13 718 ha. The cost of aerial photography and photogrammetric mapping carried out for the Department by contract was \$129,856.

A total of 17,400 land development control enquiries were dealt with during the year. This is a free service to the public enabling those involved in land transactions to ascertain the effect, if any, of road proposals on properties.

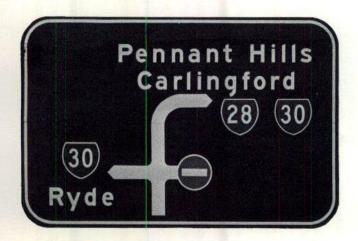
TRAFFIC MANAGEMENT

The establishment of the Traffic Authority of New South Wales on 1 June 1976 brought about substantial changes in the administration of traffic control throughout the State. Traffic engineering activities previously undertaken by the Department of Motor Transport (traffic signals, regulatory signs and road markings) were transferred to the Department of Main Roads on 1 July 1976.

GENERAL OPERATION AND MAINTENANCE

The Department's staff undertook all routine operation, maintenance and emergency repair work of traffic facilities including traffic signals in the Sydney and Newcastle areas. In other areas, signal maintenance was carried out by the local electricity supply authority for the Department while maintenance of other traffic facilities was undertaken by the Department itself or by Council as mutually convenient.

During the year, more than 15,500 road signs were manufactured by the Department, including this attractive style of direction sign which features State Route Numbers.



SIGNS AND MARKINGS

The Department maintained approximately 32 000 km of longitudinal traffic lines on classified roads and 1 500 km on unclassified roads. Raised pavement markers continued to be used to augment painted lines and to simulate traffic lines on freeways. Approximately 93 000 m² of transverse lines, zebra crossings and road symbols were marked and maintained during the year. Increased quantities of hot applied thermoplastic material, instead of conventional linemarking paint, were used throughout the year.

PRIORITY ROADS

Priority road conditions were established on 424 km of arterial routes by installation of "Give Way" and "Stop" signs. The Department now has 60% of the main road system in the Sydney Metropolitan Area operating under priority road conditions. It is expected to complete this work in the Sydney Metropolitan Area during 1977-78 as well as extending these conditions to Newcastle and Wollongong areas and to rural highways and main roads in the State.

CLEARWAYS AND TRANSIT LANES

Peak hour clearways were introduced on 3.8 km of arterial roads in the Sydney Metropolitan Area. Transit lanes were established on Military/Spit Roads (North Sydney to Mosman, p.m. northbound) and on Victoria Road (Drummoyne to White Bay, a.m. citybound). Extensions of the transit lane through Mosman were made in Sydney Road Balgowlah and Frenchs Forest Road Seaforth for a.m. citybound traffic. Tidal flow arrangements were undertaken as trials along Military Road Neutral Bay and Miller Street Cammeray. A "Bus Only" lane was marked in Mount Street North Sydney on the approach to the loading ramps to the Sydney Harbour Bridge.

SPEED ZONING

During the year new speed zones were established over the following length 24 km (60 km/h), 25 km (80 km/h), 14 km (100 km/h) and 11 km (110 km/h).

TRAFFIC SIGNALS

There are now 1,372 sets of traffic signals in service throughout the State.

		Pedestrian Actuated	Inner City	TOTAL
Sydney	880	205	113	1,198
Newcastle	56	20	-	76
Wollongong	40	7	_	47
Country Centres	37	14	_	51
		_	_	
TOTAL	1,013	246	113	1,372

During the year 120 sets of traffic signals were brought into service. In addition 50 installations were under construction or let to contract at the close of the year.

Because of changed traffic factors or road reconstruction, 32 sets of traffic signals were reconstructed. Twelve sets were removed from service.

Of the traffic signals commissioned during the year 15 sets were installed by the Department's staff which also carried out two of the six major reconstructions of existing signals and the 26 minor reconstructions. The remainder of the installations and reconstructions were carried out by contract to the Department's specifications.

Temporary signals were installed at four locations to assist in controlling traffic movements at works in progress.

This large number of traffic signals has resulted from the needs of traffic on arterial roads, both catering for through traffic and traffic wishing to join the arterial road. Where signals are close together either in a central business district or continuous along an arterial road, there is a need to co-ordinate their operation.

In the inner and near city area of Sydney, there are 149 signal sites controlled by a computer based system. Other computer based systems are located at Newtown (19 sites), St. Leonards (10 sites), Strathfield (12 sites), Punchbowl (11 sites) and Lewisham (13 sites).

During the year four computers were delivered and six are on order. The new computers will form the basis for the installation of additional regional master computers at Silverwater, Turramurra, Sylvania, Liverpool, Newcastle and the upgrading of the existing computer or other equipment at Newtown, Punchbowl, St. Leonards, Lewisham, Wollongong, Rushcutters Bay, Rozelle and Dee Why.

Small master controlled systems are installed at 69 sites and flexilink (cableless) systems are installed at 88 sites. Flexilink co-ordinated systems were installed at 45 sites in Sydney and seven in the Wollongong area.

Co-ordinated systems except flexilink cableless type require the installation of cables, ducts and pits to interconnect each site in the system. The rising cost of installing such cables has been of some concern and it is proposed, for all future systems, to utilise telephone lines rented from Telecom Australia in lieu of installing dedicated cables. This has involved the development of new techniques using serial data transmission. Development work, over a period of about two years has included awarding a contract for the modification of 240 local controllers. The first co-ordinated system utilising telephone lines is expected to be commissioned in September 1977. It is anticipated that further systems will be commissioned progressively over the next three to four years, eventually extending this control to about 1,000 signal sites.

It is indicative of the Department's expertise in the coordination of traffic signals, that an officer of the Department was invited to assist the Malaysian Government during the year. The assistance was in the evaluation of tenders for that Government's proposed area-wide traffic control system for the City of Kuala Lumpur.

DIVIDED ROADS AND CHANNELISED INTERSECTIONS

The construction of medians to separate opposing flows of traffic continued throughout the year. There are now 589.9 km of main roads which have been provided with this safety facility.

Intersections are channelised with medians and islands to separate and direct traffic flows. This year saw the completion of channelisation at 42 intersections. In addition a further 30 intersections were reconstructed to provide significant improvements.

OTHER TRAFFIC MANAGEMENT PROJECTS

The number of lengths of climbing lanes throughout the State is now 220, an increase of 13 over the previous year.

Bus bays on main roads now total 156, an increase of 28.

Many miscellaneous traffic safety management projects ranging from minor realignment of crests and curves to erection of guardrail on bridge approaches were completed during the year.

The installation of emergency telephones on the F4 – Western Freeway between Prospect and Emu Plains is now nearing completion.



Almost 150 sets of traffic signals in the Inner City Area of Sydney are controlled by computer through the Traffic Control Centre in Brisbane Street, Surry Hills. Specially trained traffic police operate the control console and, by means of 25 remote-controlled cameras, watch the movement of traffic.

SURVEY AND ACQUISITION OF LAND

In the improvement of the existing road system and the provision of additions to it, it is first necessary to acquire the land needed to accommodate the improved or new facility. The cost of acquisition of additional land, especially in urban areas, represents a considerable proportion of the total expenditure on the whole work.

During the year the cost of purchasing property required for road and bridge works throughout the State amounted to \$13.67 million and funds were provided as follows:

State Sources —
County of Cumberland
Country
Commonwealth Sources —
Urban Arterial
National Roads

\$3.13 million \$1.37 million

\$7.80 million \$1.37 million

When the right-of-way has been determined, action is taken to negotiate the purchase of affected properties. This involves land surveys, preparation of plans for registration at the Registrar-General's Department, valuation of properties, negotiations to determine satisfactory settlements and conveyancing procedures. Settlement was finalised in respect of the purchase of 888 properties during the year. These settlements were negotiated by 40 staff valuers and comprised 38 settlements in advance of road

requirements because of hardship, 547 when required for roadworks, 115 for realignment purposes and 188 resumptions.

Because of the large expenditures involved the Department is unable to purchase properties ahead of the time they are needed for current works programmes. However, where hardship can be established as a dominant factor, the Department will negotiate to purchase in advance of requirements.

The Department maintains an information service relating to approved road plans and their effect on properties and during the year 5,877 enquiries were answered.

No less than 101 separate surveys were undertaken by the Department's own land survey staff and by contract surveys. These surveys covered proposals over 9 km of road in the County of Cumberland and 172 km outside the County of Cumberland.

In the year under review, 170 plans, comprising 362 sheets, were prepared for lodgement at the Registrar-General's Department. Included in these plans were those required in connection with nine re-alignment proposals affecting 6.1 km of road within the County of Cumberland and one proposal affecting 0.5 km outside the County of Cumberland.

PLANT AND MOTOR VEHICLES

New plant to the value of \$4.83 million and motor vehicles costing \$4.48 million were purchased during the year to replace existing items and to provide for some additional requirements.

In addition to the use of its own plant, the Department made extensive use of hired equipment.

Facilities were provided for the maintenance of plant and vehicles and for general mechanical and electrical engineering services.

ELECTRICAL

Work completed through the year comprised many small and moderate sized projects such as the upgrading and extending of power supplies, electrical reticulation and services in the Port Macquarie Divisional Office; Yass, Bellambi and Picton Works Offices; Central Asphalt Depot; and the Day Street Annexe to Head Office. Street lighting was designed and installed in sections of the Warringah and South Western Freeways and various other locations throughout the County of Cumberland, Development work included electronic recording for Deflectographs; fog detection and visibility measurement; and automatic toll machines. Electrical installations in Central Asphalt Plant and in a number of divisional offices, works offices, depots and camps have been inspected and documented.

CENTRAL WORKSHOP

A total of 10,264 jobs were completed by Central workshop during the year for a total value of approximately \$6,750,663.

The Workshop's activities included property repairs, furniture manufacture, general building and carpentry work — 22 per cent; manufacture of signs, sign structures and other traffic facilities — 17 per cent; manufacture and repair of plant and overhaul of ferries — 22 per cent;

plumbing and electrical services to Metropolitan, Parramatta and Freeway Divisions and general transport services - 15 per cent; structural steelwork and reinforcing steel for bridges - 12 per cent; and special projects and other miscellaneous work - 12 per cent.

Building Work

The transfer of buildings from Waterfall to Wyong for the establishment of a new works office at Wyong was completed.

The workshop undertook adjustments to an historical School of Arts building at Windsor which is used as a factory. The work became necessary because of road widening and involved construction of retaining walls and the careful underpinning of the structure.

A prefabricated building at Lithgow was dismantled and re-erected at Bowenfels. Work is also in progress on the construction of a new laboratory building at Bowenfels and installation of equipment.

Work was commenced on alterations to offices at Milsons Point, formerly occupied by the Metropolitan Division, to accommodate sections of the Materials and Research Laboratory.

The laboratory attached to the Central Asphalt Depot was relocated and work commenced on a new workshop facility with Central Workshop assisting in the construction of the floor and internal structure.

Other building work included an exhibit for the Royal Easter Show, miscellaneous alterations to buildings or fittings at Head Office, Parramatta Divisional Office, toll facilities at Waterfall and Berowra and at Central Workshop.

Renovations and maintenance were carried out on Departmental properties in the Sydney Metropolitan Area, including tenanted houses acquired for future road construction. Inspections were carried out on country staff residences in seven divisions in accordance with a continuous programme.

Manufacture of Signs and Other Traffic Facilities

A total of 15,549 road signs were manufactured during the year.

Many medium sized sign structures of the single post type were manufactured in accordance with a new standar-dised modular design.

Special large sign support structures were designed and manufactured for erection of large freeway signs.

An additional movable median was installed on the southern end of the Sydney Harbour Bridge. This median has the driving unit incorporated within the profile of the median without the need for a raised structure and it is remotely controlled from the Traffic Supervisor's Cabin at the toll barriers.

Plant

A new design was completed for a centre articulated linemarker with hydrostatic transmission. Manufacture of a prototype to this design is nearing completion.

A tunnel washing machine was designed and built. This machine consists of a high pressure water detergent spray boom, hand lance and tanks mounted on a truck chassis which is equipped with dual steering and a low speed hydrostatic drive.

Two special truck mounted emulsion sprayers are nearing completion, following the design, construction and development of two earlier machines.

Plant and motor vehicle repairs were carried out for the Warringah Freeway construction office, together with a number of large plant repair jobs for other works offices.

The workshop service exchange system continued to handle a wide range of exchange components for the Department's plant fleet. The volume of work increased by approximately 25 per cent and the total number of jobs completed in this section during the year was 1,581.

One large vehicular ferry was overhauled at the Mortlake Slipway. Central Workshop personnel assisted and supervised the overhaul of a further six ferries throughout the State.

Structural Steelwork

Steel girders and handrails for bridges totalling approximately 273 tonnes were fabricated for a number of bridges.

The final six girders were fabricated for the bridge which will carry Pennant Hills Road over Parramatta By-pass (County Road 5037) at North Parramatta. These are trough type girders approximately 27.4 m long.

Fabrication was almost completed on a steel pedestrian footbridge which will cross the Warringah Freeway at Naremburn. The bridge consists of two spans, each approximately 28 m and weighing 12.6 tonnes, supported on a column mounted on the centre median of the roadway.

A total of 1 181 tonnes of steel reinforcement was cut and bent to shape for use in concrete bridges and culverts throughout the State.

Reinforcing steel cages continued to be produced for use by the Benoto Pile Boring Organisation. Using a machine developed for producing the spiral reinforcing and special transporting cradles, cages were supplied economically for use on the North Western Freeway.

Miscellaneous Work

Apprentice training areas were established in five sections of the workshop to enable training objectives to be met in accordance with specially prepared training programmes.

Machine-shop facilities were improved by the purchase of a vertical boring and turning machine (1.68 m diameter capacity) and a small automatic lathe with programme control of the pegboard type.

Sixty-nine bitumen sprayer tests were conducted on machines owned by contractors, councils and the Department for the purpose of issuing or renewing sprayer certificates.

Two auction sales were conducted to dispose of worn plant, trucks and miscellaneous items and realised a total of \$320,182.

FIELD WORKSHOPS

The Department's field workshops throughout the State now number forty. These workshops carry out repairs to the Department's plant and motor vehicles.

Plant Inspectors carry out regular inspections of plant, vehicles and the field repair facilities. They also fill a role of training and assisting in newer and more difficult aspects of plant maintenance and repair.

MATERIALS TESTING AND RESEARCH

Testing of materials, and research into their properties and behaviour when used in road and bridgeworks, continued to be an important aspect of the Department's work, to ensure that the most appropriate materials and practices are adopted taking into account the varying conditions encountered throughout the State. This work enables the Department to keep abreast of modern techniques and developments affecting materials, and at the same time to contribute to the advancement of road materials technology.

Monitoring of the structural condition and roughness of sealed pavements on classified roads has continued. A second statewide roughness survey is nearing completion, the previous one having been carried out in 1972-73. The structural condition of the Hume Highway, south of Uringalla Creek, and of the full lengths of the Federal and Barton Highways, has been surveyed with the Deflectograph. This structural survey is now proceeding on the more

important roads in the Illawarra Division.

Information on the structural condition of pavements is used to assist in planning and programming road maintenance and reconstruction. The information also is of direct use in determining whether a particular section is suitable to receive an overlay, and if so, the information is then used in determining the required thickness of the overlay.

So that data on the structural condition of greater lengths of road may become available more speedily and be monitored more frequently, the Department has ordered a second Deflectograph. Delivery of this machine, which consists of a special truck, ballasted to provide a load of 8.2 tonnes on the rear axle, with an automated Benkelman Beam mounted ahead of each rear wheel to measure and record the deflection of the pavement surface, is expected in September 1977.

Measurement of pavement surface friction is an important

aspect of the Department's research and monitoring operations. To increase its capacity for this type of work the Department has placed an order for a Sideways-force Coefficient Routine Investigation Machine (SCRIM). This vehicle is capable of measuring the sideways-force coefficient of friction in one or both wheel paths while travelling at normal road speeds. A graphical printout is produced showing coefficient of friction, road speed, distance and road features. Delivery of this machine is expected in late 1977.

Publication of the Department's standard test methods has continued. These test methods which make up the Department's Materials Testing Manual are produced in three volumes to which new test methods can be added progressively. As well as being distributed throughout the Department's laboratories, the Materials Testing Manual has been sought by local government, government departments, educational and private bodies concerned with testing of materials.

MATERIALS AND RESEARCH LABORATORY

At the Materials and Research Laboratory, a total of approximately 65,400 tests were carried out during the year, mainly involving soils, gravels, aggregates, concrete, tar, bitumen, bituminous mixes, paints, steel and elastomeric bridge bearings. To a more limited extent, tests were also performed on adhesives, retro-reflective materials, oil, water, additives for bitumen and concrete, aggregate precoating materials and joint fillers. This was in addition to the monitoring, geological and other technical services provided by the Laboratory.

A 5kN Testing Machine was installed for accurate testing, at low loads and small rates of strain, of joint seals, plastics and fabrics which are being used to an increasing extent in road and bridge works. Repeat-load triaxial testing equipment was put into operation early in the year. This enables tests to be carried out on soils and gravels under conditions of moisture and load approximating those likely to be encountered in a finished road pavement or sub-grade.

The demand for the specialised services and testing facilities of the Materials and Research Laboratory continued. In addition to pavement condition monitoring, these services include geological, seismic and resistivity surveys, vibration monitoring, calibration of concrete prestressing equipment and laboratory equipment generally.

Detailed investigations into the behaviour of surfacing aggregates continued. This included testing on the Depart-

The Department's Deflectograph is a specially imported vehicle which enables measurements of road pavement deflections to be taken more accurately and more rapidly than in the past.



ment of Main Roads flat bed machine and the British Standard polishing machine to determine the relationships between results from these machines and the performance of the aggregates on the road.

The geology, soil mechanics and pavement monitoring sections of the laboratory have been moved from their location in the McDougall Street annexe, into part of the area vacated by the Metropolitan Divisional Office which is immediately adjacent to the existing Materials and Research Laboratory. Arrangements are in hand to relocate further sections of the Materials and Research Laboratory into this area, reallocating space to provide additional accommodation where required and to facilitate the operations of the Materials and Research Laboratory.

DIVISIONAL AND FIELD TESTING

In addition to the Materials and Research Laboratory the Department currently operates 26 laboratories at Divisional or Works Offices. These laboratories provide decentralised testing facilities for quality control of materials from the Department's and Councils' road works. Staff from these laboratories are also engaged in the location of deposits of natural materials and testing of precast concrete products in their particular areas. A suitably equipped mobile laboratory also operates full time with the Mobile Asphalt Unit to check the quality of raw materials and of the bituminous mixes produced.

Construction has commenced on a new laboratory at Bowenfels for the Central Mountains Division.

A total of 46,200 samples of soils, gravels, binders, aggregate and concrete were processed at divisional and field laboratories involving some 204,000 individual tests. In addition test loads were performed on about 1,200 precast concrete pipes, culverts and other products for road or bridgework.

Extensive use of the Benkelman Beam to determine the structural condition of existing pavements has continued. Greater use was also made of this instrument in various areas to check the standard of sub-grades and pavements on new construction. In the Metropolitan Division, where there is a constant need to check the stability of pavements prior to the application of asphaltic concrete, a truck has been specially fitted to facilitate the work. A similar truck has been acquired for the Parramatta Division, but this has still to be fitted out.

With the increasing difficulty in locating natural gravels capable of supporting present day traffic volumes, the use of lime modification or stabilisation to improve the properties of available materials has continued in many areas.

Tuition has been given by divisional laboratory staff where requested by Councils to council staff engaged in materials testing, including assistance in commissioning new equipment acquired by Councils such as the Benkelman Beam and in situ CBR equipment.

Investigations into soil suction and soil moisture conditions proceeded in a number of areas to establish data for inclusion in future pavement thickness designs. Divisional laboratory staff carried out minor seismic surveys in some areas with equipment on loan from the Materials and Research Laboratory to determine the type of material likely to be encountered in earthworks.

The publication of further standard test methods and the supply of suitable equipment to divisional laboratories has enabled divisional testing organisations to be more self sufficient in testing of aggregates and pavement materials. This has been further encouraged by the loan of particular items such as seismic equipment or blast monitoring equipment from the Materials and Research Laboratory.

WEIGHT OF LOADS

Road pavements and bridges are liable to serious damage from overloaded vehicles and the Department employs Inspectors to enforce the mass restrictions provided in Ordinance No. 30C of the Local Government Act, 1919, in order to reduce such damage as far as possible.

During the year 61,857 vehicles were stopped for checking and of these vehicles 12,197 or 19.2% were found to be overloaded. The incidence of grossly excessive overloading detected has increased, as in preceding years.

Draft legislation designed to provide control over grossly overloaded vehicles has been prepared and submitted to the Government for consideration.

In January 1977 the Department commenced the changeover from manual to computerised processing of breach reports for overloading offences under Ordinance No. 30C of the Local Government Act, 1919. After the processing system has been fully computerised summonses, other legal documents and letters to drivers advising them of penalties imposed will be produced automatically by the computer.

As from January 1977, all offences under Ordinance No. 30C have been listed at Central Court of Petty Sessions in the first instance although no objections are raised by

the Department to cases being adjourned and heard at Courts closest to where the offences occurred if drivers apply to Central Court for such transfers. As only a very small percentage of cases for offences under Ordinance No. 30C are defended, the savings in legal costs to the Department under the new system are considerable.

The formation and levelling of the site for the major weighbridge on the Great Western Highway at Mt. Boyce was completed. The weighbridge will be capable of weighing the largest vehicles operating in New South Wales.

Permits for non-divisible loads which exceed Ordinance limits are issued in special circumstances and during the year 4,346 such permits were issued for the movement of a total of 287 461 tonnes.

Period permits which are issued to allow restricted travel, within a short radius of a particular location for overweight plant items increased in number from 900 in the previous year, to 1,430.

Following an extensive period of testing under field conditions, the Department has called quotations for the supply of 74 portable electronic weighing devices with orders for additional machines to be placed over the next two years.

TECHNICAL COMPUTING

Following installation of the Control Data Cyber 172 computer and Calcomp plotter in April 1976, the year ended with consolidation and familiarisation of the new equipment.

In July 1976, the 17 members of the staff and the Gerber plotter were relocated. Programme conversion to the new computer was completed by October 1976 when the IBM 1130 and System 7 computers were removed from the old computer site.

Two interactive terminals were installed in the Engineerin-Chief's Branch in August 1976 for computer aided programming of roadworks and bridgeworks. Later in the year the computer was also being used for programming minor traffic improvements.

In September 1976 a Bendix Graphic Digitiser was installed and used in connection with traffic sign design. Programmes are being developed to extend digitiser use to other areas.

Since installation of the Cyber computer the technical computing service to the Engineer-in-Chief's branch has been greatly improved and turnaround times reduced for users. However the problems associated with remoteness from the technical computer still remain. To overcome these problems plans are in hand to install more interactive terminals in Head Office and Divisional Offices.

GRAPHIC SERVICES

Graphic Services refers to the production of printed matter, including plans and drawings by photographic, offset and chemical printing processes together with duplicating and electrostatic copying. These services were provided by the Print Room which has a staff of 43 in the composing, platemaking, printing, binding and photographic sections.

During the year, a vacuum frame for producing contact prints of negatives and engineering drawings up to 1000 mm x 1500 mm and an automatic film processor for developing the prints were installed in the photographic section. The film processor has reduced the processing

time of prints from 45 minutes to 5 minutes.

In the composing section, a new composer-phototypesetter was installed which supplemented existing composing and phototypesetting equipment.

Work was commenced on the construction of an extension to the Print Room to give floor space for the installation of an additional small offset printing press.

The major items of output during the year were: printing -10.800,000 sheets; duplicating -3.590,000 sheets; plan printing -158,000 sheets; photography (negatives and prints) (a) 35 mm - 44,000 frames, and (b) other than 35 mm - 23,700 frames.

LIBRARY SERVICE

The technical library service comprises the Head Office Library and seventeen branch libraries in Divisional Offices located throughout the State and in the Materials and Research Laboratory at Milsons Point.

During the year 3,204 books, pamphlets and standards were added to the collection bringing the total library

holdings to 51,806. The periodicals to which the Department subscribes have been increased to 513 with the addition of 22 new titles during the year.

The Library circulated 15,389 new periodicals to the staff, lent 5,658 items from stock and issued four Library Bulletins during 1975-76.

LEGISLATION

Ordinance No. 30C made under the Main Roads Act, 1924 and the Local Government Act, 1919 was amended by proclamation in the Government Gazette dated 1 April 1977.

The amendment permits higher axle loads for an omnibus that is fitted with no more than 2 axles, while

(a) it is being operated under a motor omnibus service

licence issued under the Transport Act, 1930, or operated by the Public Transport Commission of New South Wales and

(b) it is being operated within the Metropolitan Transport District, the Newcastle and District Transport District or the Wollongong Transport District, as referred to in the Transport Act, 1930.

ELIMINATION OF RAILWAY LEVEL CROSSINGS

The policy of eliminating and improving railway level crossings on the State's main roads system was maintained during the year. Grade separation structures were completed and opened at Seven Hills (overbridge) and Wagga Wagga (underpass).

Flashing lights and warning bells were installed at 10 level crossings some of which were previously protected by manned gates.

Details of the construction of bridges that were completed to eliminate level crossings are listed below.

At Wagga Wagga the Edward Street underpass was completed and was opened to traffic on 11 December 1976, thus eliminating the Edward Street level crossing.

Construction of an overbridge and approaches at Seven Hills were completed and were opened on 24 December 1976, thus eliminating the level crossing on Secondary Road No. 2084.

A new road bridge over the Darling River at Menindee was opened on 11 February 1977. This eliminated the need for road vehicles on Trunk Road No. 68 to use the rail bridge to cross the river.

Type 'F' flashing lights and warning bells were installed at level crossings on State Highway No. 6 (Mid Western Highway) at Blayney; two crossings on State Highway No. 7 (Mitchell Highway) at Trangie; Main Road No. 101 (West Maitland — Weismantels) at Paterson; Main Road No. 126 (Wallabadah — Quirindi) at Quirindi; and Trunk Road No. 90 (Bucketts Way) at Gloucester.

On unclassified roads type 'F' flashing lights were installed at Dapto, Wellington, Berrico, and Orange.

Widening of level crossings on State Highway No. 21 (Cobb Highway) at Hay and Trunk Road No. 55 at Mudgee were also completed.

These works were carried out by the Public Transport Commission, the Department and Councils working in close co-operation. Apportionment of costs were in accordance with the situation at individual sites.

Another level crossing has been eliminated with the completion of this bridge over the Main Western Railway Line adjacent to Seven Hills railway station.



PUBLIC RELATIONS

The Public Relations Section is responsible for informing the public of the activities and policies of the Department and it does this in many different ways. The Section's wide range of activities include:

- the preparation and issue of regular statements to press, radio and television about new undertakings;
- the planning, printing and distribution of brochures and maps, including the Department's quarterly journal 'Main Roads' and the Annual Report;
- the screening and loan of movie films for schools, colleges, and other interested groups;
- the maintenance of a photographic record of major Departmental projects and the supply of prints for sale;
- the design and presentation of displays at both city and country centres to keep the community aware of new works which are planned or in progress;
- the reporting to newspapers and other media of road blockages due to flooding, snowfalls, landslides, accidents or roadworks;
- the provision of guest speakers to address meetings of community service organisations, church groups, historical societies and other associations;
- and the provision of 'guides' for visitors to the Model Room Display Area on the Third Floor, Head Office.

It also undertakes to find the answers to a multitude of questions posed by the public — by letter, by telephone and by personal enquiry — concerning roads and bridges throughout the State.

In all of these activities, 1976-77 was again a busy year. During this period a total of 77 press releases were issued and films from the Department's collection were lent to 277 horrowers.

The Department's display at the 1977 Royal Easter Show was focussed on the theme 'Presenting the Better Alternatives' and highlighted the differences between the efficient and attractive roads and bridges being built today and the inadequate ones that still need to be replaced or upgraded. Exhibitions were also arranged at Broken Hill and Wagga Wagga in September 1976, Wollongong in October 1976, Newcastle in February 1977 and Armidale in March 1977. Panels of photographs and diagrams were also forwarded for display at the Australian Road Research Board Conference in Perth, W.A. in August 1976.

On 25 March 1977, a special function was arranged for the official opening by the Premier, the Hon. N. K. Wran, Q.C., M.L.A., of the Sheahan Bridge over the Murrumbidgee River at Gundagai — the longest structure ever built by the Department.

The Department published revised editions of 'Four Maps of New South Wales' and 'Sydney and Suburbs' and 'Sydney and Surrounding Districts'. For the first time maps of 'Wollongong and Suburbs' and 'Wollongong and Surrounding Districts' were also produced. With the maps of 'Newcastle and Suburbs' and 'Newcastle and Surrounding Districts' continuous cartographic coverage is now provided, at the same scale and showing the same type of information, from Raymond Terrace in the north to Nowra in the south.

EMPLOYMENT

At 30 June 1977, 11,594 wages employees (including contractors' employees and truck owner-drivers) were engaged on the maintenance and construction of Main Roads and on the construction of Developmental Roads by the Department of Main Roads and Councils. This compared with a total of 10,635 as at 30 June 1976.

In addition, there were 3,952 salaried officers employed by the Department at the end of June 1977.

An analysis of the figures is set out below.

Departmental staff and employees -

Salaried officers —			
Male	2 247		
	3,247		
Female	705		
	_	3,952	
Wages employees -			
Male	6,134		
Female	62		
	_	6,196	10,148
Departmental contracts -			
Contractors' employees engaged on			
contracts under direct supervision by			
the Department (other than haulage			
and minor contracts)	199		
Haulage contracts -			
Trucks	1,009		
Minor contracts –	1,000		
	403		
Plant, etc.	403	110002000	
	_	1,611	
Council employees engaged on sub-			
sidised roadworks		2,756	
Council-owned and contract trucks			
engaged on subsidised roadworks		1,031	5,398
Grand Total			15,546

The Department has not been involved in any major industrial disputes during the year. Relations with union officials, employees and staff have been generally harmonious.

Opposite page ▶

Top left: A scale model of the proposed interchange which will carry Epping Road (the vertical route) over Lane Cove Road (the horizontal route) at North Ryde, looking northwest.

Top right: Construction in progress on the overbridge at the intersection of Epping Road and Lane Cove Road, looking southeast.

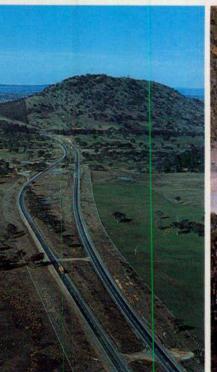
Centre left: Dual carriageways on the Hume Highway, approximately 10 km south of Yass.

Centre right: A striking comparison between the old and new bridges over Honeysuckle Creek on Trunk Road No. 91, 23 km west of the Princes Highway near Wyndham.

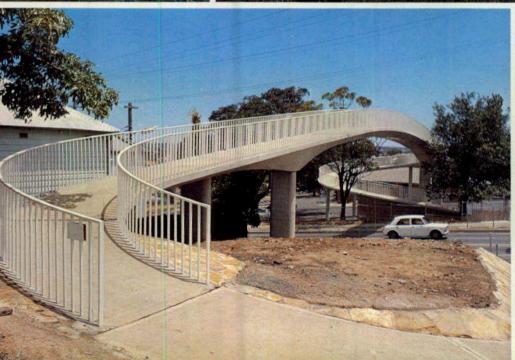
Bottom left: The attractive new footbridge which now spans the busy King Georges Road at South Hurstville.

Bottom right: Completed reconstruction on the Pacific Highway at Clybucca Flat, north of Kempsey, showing the Macleay River in the background. This is the first continuous reinforced concrete pavement built by the Department.











BITUMINOUS SURFACING

ASPHALT PRODUCTION AND LAYING

Asphalt used by the Department during the year totalled 482 238 tonnes of which 337 579 tonnes were supplied from the Central Asphalt Depot plant, 32 873 tonnes from the Mobile Asphalt Plant, 27 240 tonnes from the Bellambi plant and 84 546 tonnes from contract sources.

Approximately 11 000 tonnes were placed by contractors and approximately 80 000 tonnes used by maintenance gangs on repair work. The balance of 391 239 tonnes were spread and compacted on the roads by the Department's own paving units.

Central Asphalt Depot

Production at the Central Asphalt Depot in 1976-77 was 337 579 tonnes; an increase in production of 124 240 tonnes over the previous year's figures of 213 339 tonnes.

The two old 'Standard' Asphalt plants were used only as stand-by plants for emergencies. The whole of the production was from the new Barber-Greene plant capable of producing up to 400 tonnes per hour.

The asphalt produced by Central Asphalt Depot was supplied to various work sites up to 150 km from Sydney. Haulage was by 30 Departmental trucks and up to 80 contract trucks.

Six Departmental pavers were used to place the asphalt on the road, four under direct Central Asphalt Depot control and one each based with Metropolitan Division and Parramatta Division.

Mobile Asphalt Plant

The Mobile Asphalt Unit is an Armstrong Holland plant capable of mixing up to 35 tonnes per hour.

The unit operated from a base at Mittagong; the asphalt produced was used on the South Western Freeway between Yanderra and Mittagong and on various sections of the Hume Highway between Goulburn and Mittagong. The unit moved to work on the Hume Highway near Holbrook in April 1977.

Bellambi Asphalt Plant

The Bellambi Asphalt Unit based at the Bellambi Works Office is an Armstrong Holland plant capable of mixing up to 25 tonnes per hour.

Ashpalt produced was used on construction and maintenance by the Illawarra Division but some mix was also supplied to work on the Hume Highway to assist Mobile Asphalt Unit production.

SPRAYED BITUMINOUS SURFACING

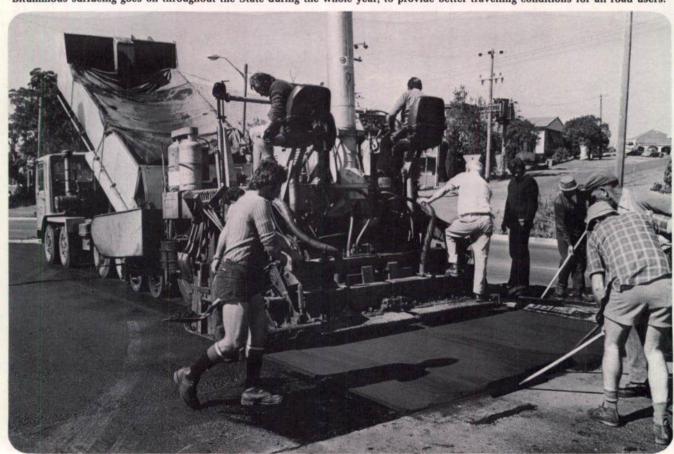
During the year the Department operated nine full units on works under its direct control. One of these units was based at the Central Asphalt Depot for work in Divisions around Sydney.

A further nine small trailer mounted bitumen spraying units were used in country divisions for priming, primer-sealing and patching works.

The Department by direct control sprayed 10 480 548 litres of bitumen and 414 254 litres were supplied and sprayed by contract on Departmental works.

This, together with 22 824 928 litres of bitumen used in the manufacture of asphalt, comprised the total quantity of 33 719 730 litres of bitumen used by the Department during the year.

Bituminous surfacing goes on throughout the State during the whole year, to provide better travelling conditions for all road users.



BITUMINOUS SURFACING FIGURES

The total length of dust free surface on the Freeways, State Highways, Trunk Roads, Main Roads, Secondary Roads, Tourist Roads, Developmental Roads and on the Unclassified Roads for which the Commissioner for Main Roads is responsible, is now 24 853 km.

Bituminous surfacing work was carried out on:

Freeways	15 km
State Highways	1 199 km
Trunk Roads	242 km
Main Roads	607 km
Secondary Roads	25 km
Tourist Roads	6 km
Developmental Roads	4 km
Unclassified Roads	3 km

The total length of surfacing completed was 2 101 km which involved 4 398 lane km or the equivalent of 2 199 km of normal two lane road.

The Department was the authority for 1 227 km (2 568 lane km) of surfacing of which 1 152 km (2 382 lane km) were done by direct control and 75 km (186 lane km) by contract.

Councils were the constructing authority for 874 km (1 831 lane km) surfacing of which 182 km (372 lane km) were done by direct control and 692 km (1 458 lane km) by contract

The work comprised:

Asphalt Surfacing	231 km
Slurry Seal	0 km
Bitumen Enrichment	51 km
Sprayed Seal	1 748 km
Primer-Seal	63 km
Prime	8 km

The bituminous surfacing work done during the year is divided into four categories:

- Initial Treatment of 121 km (270 lane km) of road not previously provided with a dust free surface.
- Heavier Treatment either sprayed seals or plant mix surfacing provided on 59 km (118 lane km) of road previously provided with a light treatment such as prime or primer-seal.
- Restoration of bituminous surfacing following reconstruction:
 - (a) to widen and/or strengthen the pavement on 258 km (530 lane km),
 - (b) to provide additional lanes or dual carriageway on 42 km (118 lane km),
 - (c) to improve alignment and/or grading on 108 km (237 lane km).
- Maintenance Re-surfacing of 1 513 km (3 125 lane km) of road pavement.

ROAD CLASSIFICATIONS AND DISTANCES

The total distance of Freeways, State Highways, Trunk Roads, Main Roads, Secondary Roads, Tourist Roads, Developmental Roads and Unclassified Roads for which the Commissioner for Main Roads is responsible is 42 771 km.

The distances of roads within the various classifications as at 30 June 1977 were:

Freeways	127 km
State Highways	10 478 km
Trunk Roads	7 075 km
Main Roads	18 305 km
Secondary Roads	287 km
Tourist Roads	403 km
Developmental Roads	3 618 km
Unclassified Roads	2 398 km
(in the unincorporated area	
of the Western Division)	
Unclassified Roads	80 km
(in the incorporated area of	

New South Wales)
Total
42 771 km

The lengths of the various types of surfaces of Main Roads throughout the State as at 30 June 1977 were:

Natural Surface	927 km
Formed only	6 573 km
Gravel	10 418 km
Primed only	16 km
Primer Seal	251 km
Sprayed Seal	21 883 km
Enrichment Reseal	364 km
Slurry Seal	14 km
Bituminous Plant Mix	2 173 km
Cement Concrete	152 km

Total 42 771 km

LANDSCAPING

The solution of road problems often involves the adoption of a new alignment which encroaches on areas of natural vegetation or other established areas and consequently alters the surrounding landform. It is through an awareness of this aspect of its activities that the Department undertakes to restore and in some cases improve, the landscape and establish an environment that is aesthetically acceptable to the community.

During the past 12 months grass cover on roadside verges of the South Western Freeway and the Hume Highway has continued to give satisfactory results.

Tree planting was restricted, because of lack of finance, principally to the National Highways and Freeways of the State. Despite this limitation some 15,000 trees and shrubs

were planted of which the most significant projects are detailed below.

F5 South Western Freeway	
Section Kennys Hill to Menangle	300
Section Yanderra to Yerrinbool	2,900
Section Yerrinbool to Aylmerton	3,500
Hume Highway - State Highway No. 2	
Bowning	1,300
Gundagai	700
Holbrook	400
Federal Highway - State Highway No. 3	
Yarra	1,200
New England Highway - State Highway No. 9	
Tenterfield	350

STAFF TRAINING

Under the guidance of the Department's Steering Committee on Training, activities concerning staff training and development continued to grow and diversify during 1976-77.

A total of 840 officers attended formal training courses conducted by the Department. These courses included residential training; full-time courses of from one to three weeks' duration; courses requiring part-time attendance over several months; and shorter sessions, some of less than one day's duration. The formats for the various courses were determined by the demands of the different work situations from which trainees were drawn.

In addition, a further 12 senior officers attended courses at the Australian Administrative Staff College and at the Institute of Administration, University of New South Wales.

Staff were also sponsored in full-time degree courses at the Universities of Sydney, New South Wales, Newcastle and Wollongong, and the New South Wales Institute of Technology. Courses studied under these sponsorships included Civil, Electrical and Mechanical Engineering, Science, Surveying and Business Administration. Two officers are currently being sponsored in post-graduate studies of Highway Engineering and Traffic Engineering at the University of New South Wales.

A further 380 officers undertook part-time studies at various educational institutions in a wide range of courses.

APPRENTICES

Forty-three apprentices were indentured during the year, bringing the total number employed to 192 in 13 different trades. During the year the Department's apprentices throughout the State won awards in the boilermaking, sheet metalwork, plumbing, plant mechanics and welding trades.

INDUCTION TRAINING

Formal induction courses were held throughout the year at Head Office for newly recruited staff. An induction course was conducted for junior professional staff on 1 December 1976 and was attended by 36 graduand engineers and surveyors.

Special induction sessions were arranged for 89 officers who joined the Department from the Department of Motor Transport.

TECHNICAL TRAINING

Field Engineers (Roads)

This week-long residential course on road construction and maintenance methods was once again conducted by the Department at the Residential Centre, Institute of Administration, University of New South Wales. It was attended by 28 engineers.

Road Design Draftsmen

During the year, the final group of trainees from 1975-76 completed the last week of this three week course and a further two courses, each attended by 20 draftsmen, were conducted. The objective of these courses is to consolidate and expand trainees' knowledge of the many aspects of road design.

Workshop Supervisors

A series of five courses, attended by 56 officers, was conducted during the year for workshop supervisors. The

courses included such topics as hydrostatic transmissions, registration inspections of motor vehicles, workshop processes and metrication.

Measurement of Paint Film Thickness

Two of these courses, the first of their type conducted by the Department, were held during the year. They were attended by 24 officers, including engineers, superintending officers and foremen engaged in supervision of painting and repainting steel bridges.

Divisional Training Conferences

The practice of holding training conferences in divisional offices throughout the State was continued. A series of conferences on traffic matters commenced during the year will continue. These conferences include topics of special State-wide interest with information being provided, where appropriate, by speakers from Head Office.

Plant Operator Instruction

Over the past 12 months the Department's plant instructors continued the task of instructing those operators who needed training in, or a review of, plant operating techniques. During the year 431 plant operators were instructed, 36 at the Central Workshop and the remainder in the field.

Potential Cost Clerks

One course, of two weeks' duration, was attended by 15 clerical officers who were otherwise qualified for promotion as cost clerks. The course comprised aspects of staff supervision and office management together with departmental administrative procedures as applied in the works office situation. Follow-up tuition in procedures was given at field offices throughout the year by experienced clerical instructors.

Training in Costing Procedures

As a result of the institution of a revised costing system throughout the Department, formal instructional briefings were held for appropriate officers. A team of qualified clerical instructors visited field offices to give on-the-job instruction as required.

Classes in General Office Administration

Twelve clerical officers commenced classes of instruction at Head Office during the year in preparation for clerical grade examinations.

Field Engineers

A week long residential course in works management and administration was conducted by the Department at the Residential Centre, Institute of Administration, University of New South Wales. Twenty-eight engineers attended the course which covered the detailed procedures of works office administration, together with job management techniques associated with road construction and maintenance.

Divisional Office Administration

This course was attended by 17 engineers recently appointed to divisional offices throughout the State. The programme and content were designed to introduce members to divisional office practices and procedures and to familiarise them with their role in overall departmental administration.

Legal Branch Staff

A part-time course of 10 half-day sessions was attended by 24 officers from the Legal Branch. This was

the first formal training programme for the Department's Legal Branch: the course was aimed at acquainting those attending with the field operations of the Department, with emphasis on the potential legal implications.

Survey Draftsmen

The Department commenced its first training course for survey draftsmen during 1976-77. The course was made up of two groups, each of 20 draftsmen and was designed to familiarise them with other areas of departmental operations relevant to survey drafting.

Valuers

Phase one of the training programme for valuers was concluded early this year: phase two was completed later in the year. A part-time course of five half-days (spread over a period of four months), was also conducted by specialists from other departments and instrumentalities whose operations impinged on the work of the valuers. Two groups, each of 24 officers undertook this training.

Assistant Valuers

During the year a part-time course was held for nine assistant valuers to expand their knowledge of departmental procedures and sources of information. Sessions were conducted mainly by senior members of the staff.

PERSONAL SKILLS TRAINING

Correspondence Preparation

Six one-day courses were held in Head Office, Parramatta Divisional Office and at Metropolitan Divisional Office to improve the standard of departmental correspondence. In all, 89 officers attended these courses.

Methods of Instruction Training

Two courses were held during the year to assist 16 officers required to present sessions at departmental courses. In addition, a three-day course was conducted for five officers of the Central Workshop who instruct apprentices.

Public Service Board Courses

A total of 15 officers attended a variety of courses conducted by the New South Wales Public Service Board. These courses included dictation techniques, 16 mm film projection, records management, aerial photography interpretation and a training officers' workshop. In addition, 11 officers attended seminars in administration conducted by the Board in conjunction with the Royal Institute of Public Administration. Topics of these seminars included communication in management, industrial relations, public relations, finance, people in organisations and computers.

First Aid Classes

During the year the Department sponsored 84 officers and employees to undertake studies toward St. John Ambulance qualifications in first aid.

Film and Television School

Following the purchase by the Department of a colour video-cassette system, four officers attended week-long courses in the operation of portable television equipment and associated editing techniques.

TRAINING IN STAFF SUPERVISION

Nine supervisory training courses, each of one week's duration, were conducted during the year and were attended by a total of 129 staff. Five of the courses were attended by road and bridge foremen, together with technical supervisory staff; one was for field engineers and the remaining three for supervisory staff of various designations within the Department.

MANAGEMENT TRAINING

Two courses of this type were conducted during the year, one in October 1976 and another in May 1977, on a residential basis and each was attended by 15 officers.

These courses were designed to provide members with an introduction to management concepts and techniques and contained a practical element to relate the learning to trainees' work situations. They were intended to form a basis for more advanced management training.

SUGGESTIONS COMMITTEE

The Department's Suggestions Committee has been in operation in varying forms since 1927. The present committee which consists of a Chairman, Secretary and three committee members, reviews the suggestions submitted by employees and makes recommendations for their adoption, if warranted.

During the year, 63 suggestions were received ranging from ideas on improving technical and administrative efficiency to the modification of plant and ancillary equipment in the Department's field operations.

Depending on their merit, various monetary awards were made to the authors of the suggestions.

MISSIONS ABROAD

The Assistant Chief Engineer (Bridges) of the Department, Mr. L. H. Evans, represented the Department at the 10th Congress of the International Association for Bridge and Structural Engineering held in Tokyo, Japan from 6 to 11 September 1976. The Association organises a congress every four years to further its aims of promoting international collaboration between engineers and researchers, promoting the exchange of technical data and scientific knowledge and publishing experience and results of research.

Following the congress Mr. Evans spent three weeks in Japan examining recent developments in bridge design and construction, inspecting road tunnel and bridge projects and holding discussions with senior technical officers of road authorities and associated organisations. He was

away from Australia for approximately four weeks.

The Australasian Corrosion Association held its 16th Annual Conference in Auckland, New Zealand from 22 to 26 November 1976. The Assistant Bridge Engineer (Operations) in the Department, Mr. S. F. S. Pollard, who at the time was the Senior Vice-President of the New South Wales Branch of the Association, attended the conference.

After the conference Mr. Pollard spent a week in New Zealand inspecting emergency bridging equipment and holding discussions with senior technical officers of road authorities on this matter, which is of vital concern to the Department. He was away from Australia for approximately two weeks.

OFFICE PREMISES AND HOUSING FOR STAFF

HEAD OFFICE

Alterations were carried out in various sections of Head Office so that new plant could be installed, security improved and partitioning re-arranged to accommodate increased staff.

Work was commenced on the northern wall of the Day Street Premises to obtain a presentable facade to what was, prior to demolition of the old building, an internal wall.

Refurbishing of a resumed property in Palmer Street to accommodate surveyor's field hands, a radio repair room and a bulk paper storage area was recently completed. Work was nearly completed on restoring three houses acquired adjacent to this building.

Negotiations for the leasing of office premises to accommodate the relocation of Brisbane Street Traffic Control Centre to Oxford Street were completed.

DIVISIONAL OFFICES

Purchase of a property at the rear of the Parramatta Divisional Office was completed.

Five floors of the Legal and General Building, North Sydney were fitted out to accommodate the Metropolitan, Inner and Outer Freeway Construction Divisions.

The first stage of the extension of the Materials and Research Laboratory into the area previously occupied by the Metropolitan Divisional Office was completed.

Contracts have been exchanged for the purchase of a property opposite the Divisional Office at Bega which will be consolidated with adjoining lands to provide a future rebuilding site.

A prefabricated building was relocated from the former Divisional Office at Lithgow to the Bowenfels Works Office to accommodate surveyors and their vehicles. A new testing laboratory building together with a separate garage building was also being erected.

An air conditioning system was installed in the main office building at Port Macquarie Divisional Office.

Improvements were carried out to the car parking area at Grafton Divisional Office.

Extensive alterations were nearly completed at Tamworth Divisional Office to provide additional accommodation for staff.

A temporary office building was erected at the rear of the main office building at Wollongong to accommodate additional staff.

Alterations and extensions were commenced to accommodate survey staff at Goulburn.

WORKS OFFICES

Construction of a new 1 125 m² workshop at Granville to serve the Central Asphalt Division was well advanced.

Separate contracts were let for an office/testing room building, garage building and store extension at Waratah Works Office for personnel transferred from the Department of Motor Transport.

A new building to replace the workshop at Yass and extensions to the Bega Works Office were both nearing completion and an extension to the workshop building at Bellambi was completed during the year.

A new petrol, oil and lubrication store was provided at Nyngan Works Office.

HOUSING FOR STAFF

During the year residential properties were purchased for staff housing at Tamworth, Grafton, Broken Hill, Parkes, Corrimal and Glen Innes.

A total sum of \$440,000 was expended on staff housing during 1976-77. Two of the properties were acquired as replacements for older premises considered to be unsuitable for Departmental requirements. Nine staff residences were disposed of being unsuitable for, or surplus to the Department's requirements.

ARMY SUPPLEMENTARY RESERVE UNIT

During the year the 21 Construction Regiment RAE (SR) celebrated the 25th anniversary of its formation. Since formation it has served the dual roles of providing an active reserve for regular army engineer units and as a unit for training skilled civilian personnel.

The Department sponsors a Construction Squadron, a Plant Troop of a Plant Squadron (Heavy) and part of the Regimental Headquarters. Departmental engineers at present fill the posts of Regimental Commanding Officer and Officers-in-Command of 101 Construction Sqn and 108 Plant Sqn (Heavy).

The Annual Camp was held at the School of Military Engineering, Casula over a four-week period with Departmental personnel attending from 5 to 18 March 1977. Regular army instructors from the School provided a nucleus of instructors for the training programme as well as guiding instructors from the Regiment.

Training was inspected by the Commissioner, Deputy Commissioner and senior officers of the Department together with senior officers of the Metropolitan Water Sewerage and Drainage Board and the Department of Public Works which are the other sponsoring authorities. Some bridge training was also provided for 1 PC and R Squadron which is sponsored by the Maritime Services Board.

Service in the Regiment provides training in management for Departmental personnel and contributes significantly to overall Departmental morale.

Opposite page ▶

Recently completed divided carriageways on the Pacific Highway between Oakdale Road and Oxford Street, Gateshead (south of Newcastle), showing additional storage lanes for right turning vehicles.



AUSTRALIAN ROAD RESEARCH BOARD

The Australian Road Research Board (ARRB) is a cooperative venture between eight State and Commonwealth Government departments interested in roads and road transport. The six State Road Authority representatives on ARRB, together with the Commonwealth Department of Construction, also meet together as the National Association of Australian State Road Authorities (NAASRA). Thus, whilst ARRB has no formal direct links with NAASRA there are strong informal ones through common direction and an interlocking common link at the technical level. The Board operates as a non-profit public company (registered in Victoria) with its charter defined by its memorandum and articles of association as required by the relevant Companies Act. A Board of Directors, comprising the executive heads of the sponsoring road authorities - which for this year had as its Chairman Mr D. H. Aitken, Commissioner of Main Roads, Western Australia - provides regular guidance and reviews ARRB policy. Activities of the Board, under its Executive Director Dr. M. Lay, are thus directed to objectives incorporated in legal documents which included:

- correlating and co-ordinating road research activities;
- (ii) providing, by means of conferences or symposia, opportunities for the presentation and discussion of the results of research;
- (iii) undertaking research studies; and
- (iv) publishing results of road research, including those presented at conferences convened by the Board.

The Eighth ARRB Conference held in Perth in August 1976, was one such opportunity for Australian and overseas roading personnel to exchange information. In the published proceedings from this conference, exchange between road research scientists, practising engineers and managers, and associated specialists was widely distributed. Included among the 650 delegates to the Conference, was a group of 37 from Thailand who continued from the Conference on a study tour of Australian highways.

The Commissioner, Mr A. F. Schmidt, as a director of ARRB, chaired a session at the Eighth Conference for the inaugural presentation of the Directors' prize to the author whose paper was judged the best in translating research into practice. This first award was presented to Mr B. L. Phillips, of the Country Roads Board, Victoria, for his paper 'Synthetic Aggregates for Road Surfacings'.

Preliminary arrangements are in hand for the Ninth Conference to be held in Brisbane from 20-25 August 1978.

In conjunction with the ARRB, the Road Engineering Association of Asia and Australia (REAAA), conducted a two part Highway Engineering Workshop in Singapore and Malayasia as a follow on from the Eighth ARRB Conference. ARRB is an Institutional Member and occupies a role of second vice-president in the Association.

In association with the Commonwealth Bureau of Transport Economics, the Board organised a local workshop of New Techniques for Transport Analysis. A workshop on the Geology of Quarries was conducted in February 1977. Both of these meetings involved representatives from appropriate associate industries, commercial interests and representatives from member authorities as well as Board staff.

Local government involvement continued through the 14th Regional Symposium at Burnie, Tasmania. During the year the Deputy Director, Dr. J. B. Metcalf attended and presented papers at a 'Low-cost Roads' Conference organised by the Department of Highways, Indonesia.

Following the acceptance of Australia as a participant

member of the OECD programme of co-operation in the field of road research, the Executive Director of ARRB, as the alternate Australian delegate, attended the 18th Steering Committee Meeting in Paris in May 1977.

Such a Committee formulates a three-year programme which attempts to identify methods which have been scientifically validated and proven successful in certain countries and which could be recommended for general and immediate application for member countries. Through this research programme, Australia has access to reasoned and reliable data for policy makers. Involvement on the Steering Committee should allow the monitoring of international trends and the input of Australian experience.

Broad examples of fields in which groups in the OECD programme are currently enquiring, involve: energy problems and urban and suburban transport; use of waste materials and by-products in road construction; and management of urban freight distribution.

As an indication of input from Australia, a paper arising from the recently completed NAASRA study into Economics of Road Vehicle Limits (ERVL) is expected to be presented at a proposed OECD symposium on 'Heavy Freight Vehicles and Their Effects' to be held in Paris in November 1977.

Improvements to research documentation and retrieval has continued, including organising of a workshop in September 1976, involving librarians, information officers and committee members who were responsible for the transfer of the Australian Road Index (ARI) from NAASRA control to an ARRB operation. Apart from representatives of Directors' organisations, participants included representatives from organisations such as the New South Wales and Victorian Railways and Road Safety, as well as Commonwealth representatives from the CSIRO and Bureau of Transport Economics.

The Index was developed as a computer based index to Australian Roads and Road Transport literature. It is updated quarterly and cumulated annually and offers instant Australian bibliographic reference to librarians and researchers.

Following active pursual, through the Department of Foreign Affairs, the Commonwealth Government sought and was granted membership of the OECD programme of co-operation in the field of road research. This became effective from 1 January 1977. Access to International Road Research Documentation (IRRD) tapes had previously been on a trial basis before this membership was granted. Australia is thus now in a position to assist in the promotion of international co-operation in the fields of road construction, safety and traffic, and be involved in detailed research activities by the contributing nations through this OECD research programme. Input to the ARI is part of Australia's contribution to the IRRD.

The Index is now being produced directly from the ARRB computer to a photo typesetter. This change, in accordance with IRRD specifications, thus ensures that the Australian Road Index data base is completely compatible with the international data base, IRRD.

Broad ranging articles on road research and development continue to be produced quarterly in the ARRB Journal. Feasibility studies and research projects conducted during the year by ARRB staff and University researchers, included such diverse areas as Truck Suspension Performances, Horizontal Curve Design Revision, Assessment of Community response to Freeway and Arterial Road Noise, together with more conventional research into topics such as Shrinkage and Creep in high strength concrete in association with member authorities.

Instruments developed in ARRB laboratories for particular purpose applications, were utilised in a number of these studies.

The Federal Government, through the House of Representatives Standing Committee on Road Safety, received submissions from ARRB for two enquiries, into safety aspects of heavy vehicles (trucks and buses), and motor cycles. ARRB research projects and symposium proceedings provide the material for such submissions.

As a means of guiding those interested in conducting research for the Board in appropriate areas, and to allow forward planning of research on a regular rolling-programme basis, further development of a draft Research Charter is proceeding. A revised Research Contract has been developed for use in 1977-78. This will serve to concentrate research contract awards to clearly specified projects compatible with the objectives of the Board in matters affecting the provision, up-keep, use production and development of roads.

NATIONAL ASSOCIATION OF AUSTRALIAN STATE ROAD AUTHORITIES

The National Association of Australian State Road Authorities (NAASRA) is an organisation of the central road authorities in the six States together with the Department of Construction, which is the road constructing authority for the Northern Territory and the Australian Capital Territory. The present members are the Department of Main Roads, New South Wales; Country Roads Board, Victoria; Main Roads Department, Queensland; Highways Department, South Australia; Main Roads Department, Western Australia; Department of Main Roads, Tasmania; and the Commonwealth Department of Construction.

The Association was established in 1934 and serves as a centre for pooling technical and administrative experience. This co-operation has permitted the Association to inaugurate, co-ordinate, and rationalise road research projects and to promote the development of improved methods of administration, planning, design, construction, maintenance and operation of roads on a national basis and also to ascertain and publish facts about Australia's principal roads and their financing.

Three meetings of the Association were held during the year and were attended by the administrative heads of the above member authorities. The annual meeting of the Association was held in the office of the Country Roads Board, Victoria; one meeting was held in Perth and another hosted by the Commonwealth Department of Construction in Melbourne. The Commonwealth Department of Transport and the Commonwealth Bureau of Roads were represented at those sessions which were of particular interest to the Commonwealth Government.

The Principal Technical Committee (comprising the Chief Engineers nominated by the member authorities) and the Secretarial and Accounts Committee, each met during the year and were assisted by meetings of a number of Technical Committees dealing with specialist activities. Representatives from the Commonwealth Department of Transport; the Commonwealth Bureau of Roads; and the

Australian Road Research Board also attended a number of these meetings.

During the year the Association was involved in two seminars — one on subsoil drainage and the other on photogrammetry. Both seminars were hosted by the Department of Main Roads, New South Wales.

A study being undertaken on Community and Environmental Aspects of Urban Highway Proposals was completed and the report by the sub-committee was published subsequently.

Other publications issued during the year were the NAASRA Bridge Design Specification, which replaces the 1970 edition of Highway Bridge Design Specification; a revised edition of the Guide to Publications and Policies of NAASRA; Guidelines for the Preparation of Computer Programs for Engineering Tasks; a Standard Lubricant Chart, Part 3 of a series of publications on Pavement Materials; and a revised edition of Australian Roads. One more brochure on the theme "The Role of Roads in the Movement of People and Goods" was also issued, under the title of "Roads and Public Utilities". NAASRA publications continue to attract wide interest both within Australia and overseas.

During the year the Association applied for, and was accepted as an Institutional Member of the Road Engineering Association of Asia and Australasia. REAAA, with its Secretariat based in Kuala Lumpur, Malaysia, embraces the Asian and Pacific regions.

The recommendations of the NAASRA study on the Economics of Road Vehicle Limits were accepted by the Australian Transport Advisory Council at its February meeting and now await legislation by the individual States.

Studies on Road Maintenance Standards, Costing and Management and on the establishment of a NAASRA data bank are continuing. A report by the NAASRA Transport Planning Committee has been completed and is being published.

VISITORS FROM OVERSEAS

Mr. Sathien Vongvichien, Chief, Aids Control Office, Department of Highways and Colombo Plan visitor from Thailand, spent two days discussing highway planning, design, construction and administration techniques.

Mr. Chamlong Saligupta, Deputy Director General for Engineering, Department of Railways, Thailand, spent three days discussing highway planning, road location and design, and materials and research.

In addition, the Department received various visits for one or two days from overseas delegates to the Eighth Australian Road Research Board Conference in Perth.

SENIOR OFFICERS

HEAD OFFICE

Engineer-in-Chief's Branch

Deputy Engineer-in-Chief Chief Engineer (Bridges) Chief Engineer (Rural) Chief Engineer (Roadworks) Chief Engineer (Urban) Highways Engineer Mechanical Engineer Engineer for Programmes and Budgets Road Design Engineer Field Inspecting Engineer **Executive Engineer** Assistant Chief Engineer (Bridges) Bridge Engineer (Design) Advance Planning Engineer Traffic Engineer Urban Investigations Engineer Engineer for Standard Specifications and Technical Instructions Rural Investigations Engineer Engineer for Country Council Works Materials and Research Engineer Asphalt Engineer Engineer for Computer Services Principal Surveyor and Property Officer Principal Architect

E. M. Brown L. H. Evans H. B. Korff L. R. Browne M. B. Fairlie V. R. Minus L. A. S. Flack K. J. Paynter V. P. O'Grady E. B. Henning G. A. Thompson S. Kaldor B. J. Pearson D. H. L. Francis K. W. Dobinson K. M. Anderson R. A. Dunstan

T. P. Desmarchelier B. Moon A. Leask K. T. Jones J. C. Webb A. T. Lenehan G. A. McKenzie

Secretarial Branch

Deputy Secretary Assistant Secretaries

M. A. Lloyd C. W. Mathews J. H. Tarleton

Accounts Branch

Deputy Chief Accountant Group Accountants

E. J. Hanlon C. R. Filewood A. R. Clarke R. S. J. Price

Legal Branch

Assistant Chief Legal Officer

H. Mudie

DIVISIONS

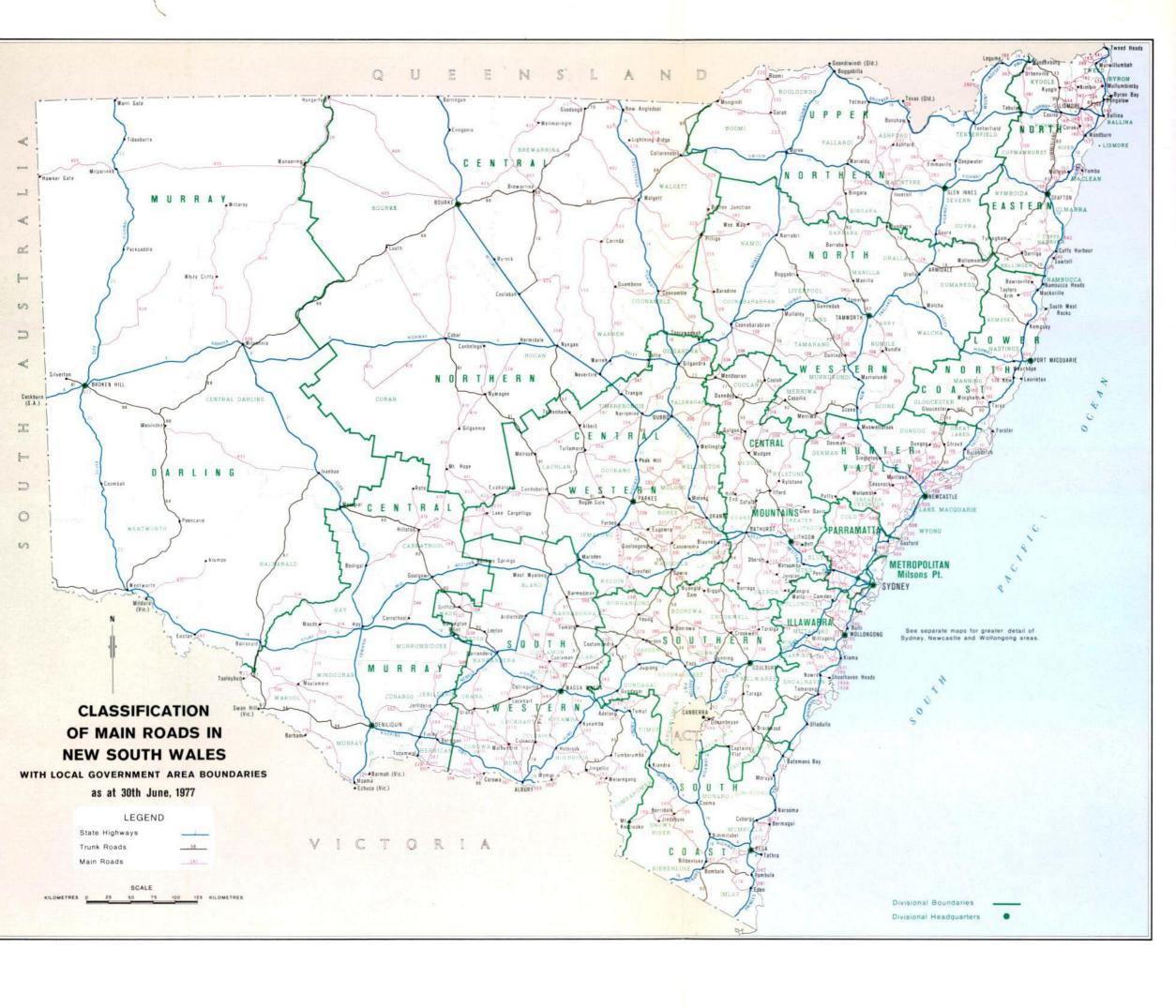
The Divisional Engineers and the headquarters of the Divisions as at 30 June 1977 were as follows:

Division Metropolitan Parramatta Central Mountains Illawarra Hunter Valley Lower North Coast North Eastern Upper Northern North Western Central Western Central Northern Murray Darling Central Murray South Western South Coast Southern Inner Freeway Construction Outer Freeway Construction

Headquarters Milsons Point Parramatta Lithgow Wollongong Newcastle Port Macquarie Grafton Glen Innes Tamworth Parkes Bourke Broken Hill Deniliquin Wagga Wagga Bega Goulburn Milsons Point Milsons Point

J. A. Neeson B. H. Butcher G. Castleden B. N. Loder W. J. Brecht D. F. Watson L. R. James A. N. Griffin D. J. Rae W. L. Gordon M. R. Foster W. H. Lake P. M. B. Pope R. A. Dubedat J. Kelly P. Moore K. Edgar I. B. Anderson

Divisional Engineer



ACKNOWLEDGEMENTS

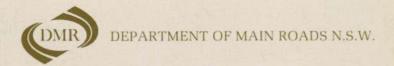
In concluding this report of the activities of the Department of Main Roads for the financial year ended 30 June 1977, I extend appreciation to the Hon. P. F. Cox, M.L.A., Minister for Transport and Highways, for his consideration and support.

I wish to recognise the co-operation of Municipal and Shire Councils throughout the State. I desire also to record appreciation for the co-operation and assistance of Government Departments, State Instrumentalities, the Executive Committees of the Local Government and Shires Associations and the Road Authorities of other States.

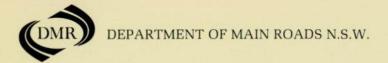
For their assistance in reporting the work being carried out by Councils and by the Department in improving the Main Roads of the State, I again thank the press, broadcasting and television organisations and other media throughout the State.

In conclusion, I desire to express appreciation of the loyalty and able assistance which has been given so willingly by officers and employees of the Department, in service to the people of New South Wales through the extension, improvement and maintenance of the State's Main Roads System.

A. F. Schmidt COMMISSIONER FOR MAIN ROADS



1976-77 ANNUAL REPORT OF THE COMMISSIONER FOR MAIN ROADS N.S.W.



1976-77 SUPPLEMENT to the ANNUAL REPORT OF THE COMMISSIONER FOR MAIN ROADS N.S.W.



Department of Main Roads, New South Wales

SUPPLEMENT TO THE FIFTY-SECOND ANNUAL REPORT OF THE COMMISSIONER FOR MAIN ROADS

FOR THE YEAR ENDED 30 JUNE 1977

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COUNTY OF CUMBERLAND ROAD CONSTRUCTION

Reference should be made to Appendices Nos. 1(B), 4, 5(A), 5(B), 6(C), 6(D), 7, 7(A), 9A and 10 for details of expenditure on road construction in the County of Cumberland during the year.

The principal works that were undertaken are listed below.

FREEWAYS

F1 - Warringah Freeway

Construction of the second stage of the Warringah Freeway between Miller Street and Willoughby Road was continued during the year.

The construction of a prestressed dual carriageway bridge over Brook Street was completed in August 1976. Construction provided for Brook Street to be open at all times to traffic.

Work is proceeding on the construction of a pedestrian overbridge over the Freeway linking Willoughby Road and Slade Street Naremburn. This work is being carried out by direct control and is scheduled for completion in November 1977.

During May 1977 a major traffic route alteration was put into operation following the closure of Chandos Street Cammeray to southbound traffic. Southbound Freeway traffic was diverted from Brook Street on to a loading ramp and directed through a major cutting through Chandos Street on to the Warringah Freeway.

F3 - North Western Freeway

Work on the section of the North Western Freeway between Erskine Street City and Harris Street Pyrmont continued during the year.

Work on columns and headstocks has advanced to a stage to permit contracts to be granted for the fabrication of steel girders and concrete deck construction for a section of the westbound viaduct to Harris Street.

During the year the extension of Pyrmont Street to Quarry Street and the construction of the service road between Sussex Street and Day Street were completed and opened to traffic.

Work is continuing on the deviation of Day Street and it is expected that northbound traffic will be diverted on to the deviation between Liverpool and Druitt Streets during October 1977.

F4 - Western Freeway

Construction of the Western Freeway continued between Wentworth Road Homebush and Wentworth Street Clyde. Work was limited to the construction of Haslam Creek bridges, major public utility adjustments and earthworks.

STATE HIGHWAYS

SH1 - Princes Highway

Improvements have been carried out on the drainage system of the Sutherland By-pass. The final asphalt surfacing has yet to be completed.

A short length of Bulli Pass was reconstructed to provide four lanes over an area of instability.

SH2 - Hume Highway

Reconstruction of the intersection of the Hume Highway and Cowpasture Road at Leppington was completed.

Also completed was the reconstruction of the intersection of the Hume Highway and Bringelly Road at Leppington

Replacement of broken concrete slabs was completed between Chelmsford Avenue Croydon and Prospect Creek at Lanevale

Reconstruction of the damaged bitumen pavement between Prospect Creek at Lansvale and Hinkler Avenue Liverpool was commenced.

Work continued on major improvements to the junction area at the intersection of the Highway and MR178 at Narellan. The work commences on the Highway approximately 54.7 km south of Sydney and extends southward for approximately 1 km. When completed, the junction will feature a bridge to carry northbound traffic over the intersection, two lane carriageways in each direction and island medians to improve the traffic flow.

SH5 - Great Western Highway

Reconstruction of the damaged bitumen pavement on the westbound lanes between Beresford Road and Greystanes Road at Greystanes was completed.

Construction of the northern side strip between Charles Hackett Drive and Neale Street at St. Marys was also completed.

Construction of the side strips between York Street and Old Bathurst Road at Emu Plains was completed.

Replacement of broken concrete slabs on Parramatta Road between Burwood Road, Burwood and Church Street, Parramatta was completed.

SH10 - Pacific Highway

Reconstruction of the damaged bitumen pavement between Hornsby Street and Cam Street at Waitara was commenced.

SH13 - Pennant Hills Road-Woodville Road

Reconstruction of the southbound side strip between Hewitt Avenue and Redgrave Road at Normanhurst was completed.

The relocation of the junction of Villawood Road opposite Llewellyn Avenue on Woodville Road at Villawood was completed.

ORDINARY MAIN ROADS

MR154 - Macquarie Street

Construction of the side strips between James Street and Drummond Street at Windsor was completed.

Liverpool City Council commenced construction of the approaches to the new bridge over Thompsons Creek at Bringelly.

MR155 - Mulgoa Road

Penrith City Council completed the reconstruction between Batt Street and Rodley Avenue to provide a pavement 7.4 m wide on an improved alignment.

MR156 - Castle Hill Road

Hornsby Shire Council completed the widening to four lanes between New Line Road and Victoria Road at West Pennant Hills, and continued with the widening to four lanes between Rogans Hill and Glen Road at Castle Hill.

MR158 - Marsden Road

The Department completed the widening to four lanes between Morris Street and Illarangi Street at Dundas.

MR159 - Pittwater Road

Manly Council completed the closure of Collingwood Street and Golf Parade at Pittwater Road Manly.

MR162 - Lane Cove Road-Mona Vale Road

The Department commenced the reconstruction of the intersection with Waterloo Road at North Ryde to provide for the widening of Waterloo Road, which is being carried out by Ryde Municipal Council.

Reconstruction to provide six lanes between Highlands Avenue Pymble and Cowan Road St. Ives is continuing.

On this section work was completed between Hope Street and Cowan Road and on the southbound carriageway between Hope Street and Bromley Avenue. Construction of the northbound carriageway between Bromley Avenue and Hope Street and the retaining wall between Highlands Avenue and Bromley Avenue is continuing.

Reconstruction to provide six lanes between Killeaton Street and Richmond Avenue St. Ives is continuing.

Property adjustment work and public utility adjustments have been completed between Ayres Road and Richmond Avenue. Construction of the northbound carriageway on this section is well in hand.

MR164 - Condamine Street-Pittwater Road-Barrenjoey Road

Warringah Council continued the reconstruction and widening to six lanes of Condamine Street from Kenneth Road to Campbell Parade.

Warringah Council completed the construction in cement concrete of the eastern shoulder of Pittwater Road between Long Reef Beach access road and Lismore Avenue

Reconstruction of Barrenjoey Road to provide six lanes through Mona Vale Shopping Centre was completed. This included improvement and channelisation of the intersection with Mona Vale Road (MR162).

MR165 - Victoria Road

The Department completed the replacement of broken concrete slabs between Bellevue Avenue and Glenayr Avenue at West Ryde.

Reconstruction of the intersection with McArthur Street at Parramatta was completed.

MR166 - Burns Bay Road

Widening to provide a right turn storage lane at the intersection with Penrose Street is continuing.

MR168 - Forest Road

Hurstville Council completed the reconstruction of Forest Road between Lime Kiln Road and Kims Avenue Lugarno.

Hurstville Council completed the reconstruction to six lanes of Forest Road between Mavis Avenue and Collaroy Avenue Peakhurst. This work includes the reconstruction of the intersection with Stoney Creek Road.

MR170 - Botany Road

Reconstruction between Beauchamp Road and Bunnerong Road continued.

MR171 - Bunnerong Road

Work in connection with construction from Flint Street to Beauchamp Road commenced with the pavement widening of both carriageways.

MR172 - Bondi Junction By-Pass

The construction of a new by-pass road between Ocean Street and Bondi Road at Bondi Junction was commenced in February 1977 and is planned for completion to fit in with the bus/rail terminal under construction at Bondi Junction.

Work is well advanced on the construction of a four lane viaduct structure 456 m in length between Vernon and Adelaide Streets. Work commenced on public utility adjustments and reinforced earth and mass concrete walling.

The work is being undertaken by both contract and direct control and a new office has been established at the site of the work in Saber Street, Woollahra.

MR177 - Campbelltown-Bulli Road

Work continued on the construction of the southbound carriageway of the Moore/Oxley Streets Deviation to bypass Queen Street, Campbelltown.

Wollondilly Shire Council completed the construction of the intersection with MR610.

Work commenced on a deviation between F5 and Campbelltown to provide an improved alignment and approaches to the replacement structure at Bow Bowing Creek.

MR178 - Campbelltown-Camden Road

Council continued with the reconstruction and widening together with the provision of kerb and guttering through Narellan from 57.7 km to 58.3 km from Sydney, together with replacement of the existing culvert.

MR183 - Gardeners Road

Construction of dual carriageway between Slattery Place and Isaac Smith Street continued and is nearing completion.

MR184 - Windsor Road

The Department continued with widening to six lanes between Daking Street and Briens Road Northmead.

Construction of the approaches to the new bridge over South Creek at Windsor continued.

MR190 - Rookwood Road-Joseph Street

The Department commenced the reconstruction to provide dual carriageways from Boardman Street to Lloyd Avenue at Yagoona.

Auburn Municipal Council continued with the reconstruction to provide dual carriageways from the Bankstown Municipal Boundary (Lewis Street) northwards to Amy Street, Regents Park and commenced the construction of dual carriageways between Amy Street and Leila Street at Lidcombe.

MR191 – Delhi Road-Millwood Avenue-Fullers Road

Ryde Municipal Council completed the construction of a third lane on Delhi Road between the Lane Cove River and the Crematorium.

Willoughby Council completed the reconstruction of the intersection of Millwood Avenue and Fullers Road.

MR194 - General Holmes Drive

Rockdale Council completed the work of providing kerb and gutter and sealing the eastern kerbside lane between Cooks River and Bestic Street.

Major patching work between Joyce Drive and Millpond Drive was completed.

MR200 - Devlin Street

The Department completed the replacement of broken concrete slabs between Victoria Road (MR165) and Church Street.

MR309 - Aston Street-Rydalmere Avenue

Reconstruction to provide dual carriageways between Eleanor Street and Hassall Street at Rosehill was commenced.

Widening to six lanes between the bridge on Aston Street over Parramatta River and Kissing Point Road (MR574) was completed. This work is part of the major work on constructing a new route (CR5037) between Rydalmere and Northmead.

MR315 - The Boulevarde-King Georges Road

Resheeting with asphaltic concrete between Redmyre Road and Carrington Avenue was completed by Strathfield Municipal Council.

Minor kerb and gutter, asphalt, landscaping and traffic facilities work were carried out to complete the reconstruction of the junction with Punchbowl Road.

Pavement over the new railway bridge and associated medians and kerb and guttering were carried out to complete the construction of the approaches to the new bridge over the railway at Wiley Park.

Reconstruction of the intersection with Canterbury Road, extending southwards to Paton Avenue is nearing completion. Southbound pavement widening to Stern Place is also well in hand.

MR318 - Marlborough and Richmond Roads

Strathfield Municipal Council completed the reconstruction and widening to four lanes between Parramatta Road (SH5) and Arthur Street (SR2057) at Flemington. This work included the construction of the approaches to the new railway overbridge at Flemington.

MR328 - Warringah Road

Reconstruction and widening to provide six lanes between Daines Parade and Pittwater Road was completed.

Traffic lights have been installed at Willandra Crescent.

Construction of a New Jersey type median barrier at the reverse curves on the northern approach to Roseville Bridge was completed.

MR339 - Old South Head Road

Woollahra Council completed work on improvements to the intersection with New South Head Road at Vaucluse.

MR344 - Wentworth Avenue

Construction of dual carriageways between Bay Street and Southern Cross Drive has been completed to interim four lane stage.

MR366 - Bobbin Head Road

Ku-ring-gai Council has completed the widening of Bobbin Head Road between Berrillee Road and Warrangi Street

MR373 — Epping Road

The Department continued with the construction of dual carriageways between Delhi Road (MR191) and Shrimptons Creek, including the new interchange at the intersection of Epping Road and Lane Cove Road (MR162) at North Ryde.

MR397 - Wakehurst Parkway

Reconstruction of a channelised intersection with Frenchs Forest Road is almost complete.

MR512 - Heathcote Road

Work continued on the construction of climbing lanes between Princes Highway and New Illawarra Road. Approximately 245 m of climbing lane east of the intersection with New Illawarra Road was completed and opened to traffic.

MR515 - Elizabeth Drive

The Department continued the reconstruction and widening to six lanes between Copeland Street (MR608) and Maxwells Avenue Mt. Pritchard.

MR523 - Pyrmont Bridge Road

Leichhardt Council completed the work of heavy patching and resheeting with asphaltic concrete between Parramatta Road and Booth Street.

MR537 - Rooty Hill Road

The Department completed the construction of the western side strip between Short Street and Spencer Street at Rooty Hill.

MR570 - Hawkesbury Road

Work commenced on the reconstruction and bituminous surfacing of the section from Davesta Street to Paterson Road.

MR608 - Copeland Street

Work continued with the reconstruction and widening to a six lane divided carriageway between Hoxton Park Road and Hinkler Avenue at Liverpool.

MR609 - The Horsley Drive

The Department commenced the reconstruction and widening to four lanes between Fairfield Street and Alan Street at Fairfield. The work is being carried out in conjunction with the widening of the existing railway overbridge at Fairfield.

SECONDARY ROADS

SR2014 - Bexley Road

Canterbury Council completed work on the reconstruction and bituminous surfacing of side strips between Canterbury Road and Northcote Street.

SR2028 - Carlton Crescent

Ashfield Council completed the reconstruction of Carlton Crescent from Lackey Street to Smith Street.

SR2036 - Belgrave Street and Gerard Street

North Sydney Council completed the reconstruction of the intersection with Waters Road.

SR2046 - James Street and Lilyfield Road

Leichhardt Council completed the reconstruction and channelisation of the intersection with Mary Street and Perry Street.

SR2049 - Parkes Street

Parramatta City Council commenced construction of the extension of Parkes Street between Station Street and Wigram Street at Harris Park.

SR2052 - Pittwater Road

Hunters Hill Council completed the reconstruction of the western kerbside lane from Harvard Street to Cambridge Street.

SR2059 - Gipps Street

Concord Municipal Council completed the reconstruction between Burwood Road and Loftus Street Concord.

SR2063 - Londonderry Road

Penrith City Council continued with the widening of the pavement to 7.4 m between Windsor Road (MR154) and the Windsor Municipal Boundary.

SR2070 - Northwood Road and River Road West

Lane Cove Council completed the reconstruction of Blaxlands Corner at Lane Cove.

SR2071 - Smithfield Road and Jersey Road

The Department completed construction of the southern approach to the new bridge over Prospect Creek Smithfield. The northern approach was completed by Holroyd Municipal Council.

Holroyd Municipal Council completed the reconstruction of the eastern shoulder between Bates Avenue and Old Prospect Road at South Wentworthville.

SR2074 - Anzac Parade

Randwick Council completed the widening of the southbound carriageway between Storey Street and Gale Road Maroubra.

SR2075 - Captain Cook Drive

Sutherland Council continued the reconstruction and widening of Captain Cook Drive between Fenton Avenue and Elouera Road.

SR2081 - Rutledge Street and First Avenue

Ryde Municipal Council commenced construction of the approaches to the new railway overbridge at Eastwood.

SR2084 - Seven Hills Road

Blacktown Municipal Council completed construction of the approaches to the railway overbridge at Seven Hills.

Blacktown Municipal Council commenced the reconstruction and channelisation of the intersection of Seven Hills Road and Abbott Road at Seven Hills.

SR2087 — Pemberton Street

Strathfield Municipal Council continued with the reconstruction and widening to four lanes between the Hume Highway (SH2) and Ada Street at Strathfield.

SR2088 - The Horsley Drive

Fairfield Municipal Council completed the reconstruction and widening to four lanes between Gipps Street and Market Street at Smithfield.

SR2090 - Juno Parade

Bankstown Municipal Council commenced the reconstruction and widening to four lanes between Wentworth Street and Roberts Road at Lakemba.

SR2092 - Centennial Avenue

Lane Cove Council completed the reconstruction and widening of Centennial Avenue between Epping Road and Mowbray Road.

SR2094 - Brunker Road

Bankstown Municipal Council completed the reconstruction of damaged pavement between the Hume Highway (SH2) and Rookwood Road (MR190) at Greenacre.

TOURIST ROADS

TR4006 - The River Road

Baulkham Hills Shire Council continued the reconstruction and widening to 6.2 m between Wisemans Ferry and Lower Portland.

COUNTY ROADS

CR5016 - Stacey Street

The Department completed the reconstruction and widening to four lanes between the Hume Highway (SH2) and Old Kent Road at Bankstown.

CR5033 - Old Windsor Road

Baulkham Hills Shire Council completed the reconstruction and bituminous surfacing between Seven Hills Road (SR2084) and Meurants Lane at Parklea.

CR5037 - North Parramatta By-Pass

The Department completed construction along this new route between Kissing Point Road (MR574) and Pennant Hills Road (SH13) and continued construction between Pennant Hills Road and North Rocks Road.

COUNTRY ROAD CONSTRUCTION

Reference should be made to Appendices Nos. 1(C), 4, 5(A), 5(B), 6(A), 6(B), 6(C), 6(D), 6(E), 8, 8A, 9(B), 9(C), 9A and 11 for details of expenditure on road construction in the Country during the year.

The principal works that were undertaken are listed below.

FREEWAYS

F3 - Sydney to Newcastle Freeway

Work on the establishment of a site office and site investigations continued during the year for the section of the Freeway from Ourimbah to Doyalson.

F5 - South Western Freeway

Work continued on the section from Kenny Hill (54.4 km) to the Nepean River at Pheasants Nest (77.2 km south of Sydney).

Work commenced on the section from the Nepean River at Pheasants Nest to Avon Dam Road partly by contract and partly by direct control.

Work continued partly by contract and partly by direct control on the section from Avon Dam Road to Yanderra.

The section from Yanderra to Aylmerton was completed during the year and opened to traffic on 24 May 1977.

F6 - Southern Freeway

Work proceeded on the section between Northcliffe Drive (MR613) Berkeley and Emerson Road Dapto including the approaches to the new Mullet Creek bridges.

STATE HIGHWAYS

SH1 - Princes Highway

Work was completed on the reconstruction of the deviation at Jaspers Creek 148.4 km to 150.5 km south of Sydney.

Work is almost complete on the reconstruction at Meroo Meadow from 152.1 km to 155.3 km south of Sydney including the approaches to the new Tullian Creek Bridge.

The final seal was placed on the climbing lane for southbound traffic between 97.4 km and 99.2 km south of Batemans Bay, which was completed to prime stage and opened to traffic.

Work continued on the reconstruction of the section 2.7 km to 9.0 km south of Bega.

Work on the construction of a climbing lane between 54.3 km and 55.3 km south of Bega continued and completion to prime stage is expected in July 1977.

SH2 - Hume Highway

Work was completed on the reconstruction to an improved alignment between Razorback Range and Picton 76.3 km to 81.6 km south of Sydney.

The pavement through the Picton subway was widened and the adjoining length of highway reconstructed and strengthened.

Work was commenced on the reconstruction between the F5 at Aylmerton and Mittagong to provide four lanes on an improved alignment and grading between 117.0 km and 123.1 km south of Sydney.

Work is proceeding on the construction of dual carriageways between Exeter Road and Paddys River 154.3 km and 164.8 km south of Sydney.

The construction of dual carriageways on an improved alignment between Paddys River and Uringalla Creek 165.9 km to 169.4 km south of Sydney continued and the section is nearing completion.

The Department completed construction of a major junction of the highway with the South Western Freeway at Yanderra, approximately 103 km south of Sydney. Also

included with the construction of the junction was a 1.1 km deviation of the highway which now serves as a local access road following the opening of the freeway to traffic on 24 May 1977.

Construction of dual carriageways is continuing between 81.9 km and 85.4 km south of Mittagong. This work is in association with the construction of dual carriageway bridges over the Main Southern Railway Line, the Mulwaree Ponds and the Crookwell Railway Line at North Goulburn. These bridges are now complete and dual carriageways are available to traffic over these bridges and between 83.8 km and 85.4 km south of Mittagong.

Reconstruction of Cowper Street was commenced by Goulburn City Council between 0.9 km and 1.8 km south of Goulburn. The section 0.9 km to 1.4 km was completed with an asphaltic concrete surface except for a 100 m section on the southbound and northbound carriageways. On the section 1.4 km to 1.8 km, excavation and gravel subbase was completed. It is anticipated work will be completed by November 1977.

Restoration of failing cement concrete pavement (Auburn Street) from 0.6 km north of Goulburn to 0.4 km south of Goulburn is currently being carried out under contract and the work, which consists of cement grouting and replacement of failed slabs, is nearing completion.

Work has commenced on the construction of the approaches to the new bridge over Fish River at 45.1 km west of Goulburn. The bridgework is now complete.

Work continued on the extension of dual carriageways between 6.4 km and 10.6 km west of Yass. The new bridge over Derringullen Creek at 7.2 km on the northbound carriageway associated with the work was completed. Both carriageways are now open between 8.2 km and 10.6 km west of Yass.

Work was completed on the construction of the approaches to the new bridge over Connors Creek, 35.8 km west of Yass. This work forms part of the ultimate northbound carriageway over this length.

Work continued on the construction of the approaches to the new bridge over the Murrumbidgee River at Gundagai. Stage 1 of the work, which included the whole of the southern approaches, and part of the northern approaches utilising the ultimate onloading ramp from Sheridan Street, was opened to traffic on 25 March 1977. Work is now in progress on Stage II, which will complete the deviation around Gundagai.

Work continued throughout the year on the programme of pavement strengthening and widening of the highway between 47.9 km and 138.9 km south of the Barton Highway intersection, within the Shires of Harden and Gundagai. The programme will be continued for some years to provide improved travelling conditions and increase traffic safety in the interim period preceding reconstruction of the highway.

Widening and strengthening of the pavement on the existing alignment and grade is being carried out between 28 km and 37 km south of Gundagai.

Realignment and reconstruction is progressing on the section between 3.6 km and 7.7 km south of Tarcutta which includes approaches to the new bridge over Comatawa Creek. This section is within the overall length between 3.6 km and 20.4 km south of Tarcutta which is programmed for reconstruction.

Reconstruction of the section between 53.5 km and 60.8 km south of Holbrook has been completed with the exception of minor works.

SH3 - Federal Highway

Work is continuing on the construction of dual carriageways between 14.3 km and 22.2 km south of Goul-

The section of the southbound carriageway between 17.1 km and 19.5 km and including the new bridge over Wologorong Creek at 18.8 km is open to two-way traffic.

SH4 - Snowy Mountains Highway

Reconstruction between 14.0 km and 17.7 km west of Tumut was completed.

Remedial culvert and drainage work to alleviate flooding along the Blowering Dam deviation, 9 km east of Tumut, was completed.

SH5 - Great Western Highway

Work continued on the construction of a climbing lane at Pritchard Street Wentworth Falls.

Asphaltic concrete strengthening and reshaping was carried out on the sections between 35.2 km to 96.7 km west of Parramatta.

Heavy patching work was also carried out on sections between 35.2 km to 96.7 km west of Parramatta.

Work commenced on the widening of formation to 13.4 m and the pavement to 7.4 m on sections of the highway between 35.5 km and 74.3 km west of Parramatta.

Work commenced on approaches to Marrangaroo Creek

Bridge 2.3 km to 6.1 km west of Lithgow.

Work continued on reconstruction and sealing at Diamond Swamp section 31.9 km to 34.5 km west of Lith-

Work continued on the construction of the approaches to a new bridge over the Lett River.

SH6 - Mid Western Highway

Construction of approaches to Evans Plains Creek Bridge 9.6 km west of Bathurst was completed.

Pavement widening and strengthening 28.3 km to 33.8 km west of Bathurst is in progress.

Reconstruction of the section of the highway in Martha Street Blayney was completed.

Reconstruction of the section of the highway in Adelaide Street Blayney, is in progress.

Construction of the deviation of the route of the highway near the town of Carcoar was completed.

Waugoola Shire Council has work in progress on pavement widening and strengthening 10.3 km to 12.7 km east of Cowra. Council is also nearing completion of widening the formation and strengthening the pavement 14.6 km to 15.3 km and sealing 13.2 km to 14.6 km east of Cowra.

Cowra Municipal Council is nearing completion of the reconstruction of the highway between Fitzroy and Carleton Streets in Cowra.

Weddin Shire Council commenced widening the formation and strengthening the pavement 29.0 km to 32.0 km east of Grenfell. Council also completed the section 49.2 km to 51.1 km and has work in progress 52.6 km to 54.5 km west of Grenfell.

SH7 - Mitchell Highway

Work is in progress on widening the formation and strengthening the pavement 2.4 km to 5.2 km east of Or-

Orange City Council commenced preliminary works for the reconstruction of the central 6 m of pavement from the level crossing in Summer Street to Lone Pine Avenue. Council also completed reconstruction of the central 3.6 m of pavement and asphaltic concrete surfacing from Woodward Street to Clinton Street Orange.

Preliminary work only was commenced on the construction of approaches to a new bridge at Erambie, 28.1 km to 29.4 km west of Orange.

Work has been temporarily suspended on the reconstruction and bituminous surfacing 13.4 km to 20.3 km north of Molong.

Pavement strengthening and widening at various locations 49.9 km to 55.5 km north of Molong was completed.

Reconstruction and bituminous surfacing 57.9 km to 63.1 km north of Molong is in progress.

Reconstruction and bituminous surfacing of the pavement of the level crossing at Trangie is nearing completion.

Reconstruction of narrow pavement was completed between 60 km and 75.8 km east of Nyngan and between 6.1 km and 11.3 km north of Bourke.

Reconstruction and bituminous surfacing was completed from 18.7 km to 20.9 km and is in progress between 16.8 km and 18.7 km south of Bourke.

SH8 - Barrier Highway

Cobar Shire Council completed reconstruction and widening of Marshall Street between Barton and Bathurst Streets including major drainage improvements.

Construction of approaches to the four new bridges over the Darling River Flood Plain between 1.7 km and 6.4 km east of Wilcannia continued.

Reconstruction and raising the formation between 2.8 km and 9.2 km east of Broken Hill has been sand primed and is awaiting construction of two new bridges over Willa Willyong Creek.

Reconstruction and bituminous surfacing between 2.2 km and 2.8 km east of Broken Hill was commenced.

SH9 - New England Highway

Construction of dual carriageways 9.8 km to 12.1 km west of Hexham (Three Mile Creek) is nearing completion.

Reconstruction between Farley Road Rutherford and Anambah Road, 2.7 km to 4.7 km west of Maitland con-

Reconstruction commenced from Rutherford Aerodrome to Lochinvar 8.2 km to 10.0 west of Maitland.

Construction of approaches to new bridge over Redhouse Creek near Branxton 21.4 km west of Maitland was completed.

Widening of existing formation to 13.4 m on selected sections of existing alignment 25.7 km to 27.4 km west of Maitland was completed.

Reconstruction of the deviation at Muscle Creek 38.9 km to 45.8 km west of Singleton was completed.

Construction of approaches to two temporary Bailey bridges at the Aberdeen railway overbridge site at 15.5 km north of Muswellbrook were completed.

Work was completed on widening of shoulders and extension of culverts 16.6 km to 23.7 km and 26.9 km to 31.4 km north of Muswellbrook. Work commenced on widening of shoulders and extension of culverts 31.4 km to 34.0 km and 58.2 km to 62.3 km north of Muswellbrook.

Construction of approaches to the new bridge over Campbells Creek from 62.8 km to 64.3 km north of Muswellbrook was undertaken and opened to traffic during June. Improvements to widen the formation of the highway from 55.0 km to 56.6 km and from 68.5 km to 70.0 km on the Liverpool Range were carried out in conjunction with bridge approaches.

Work was completed with culvert extensions and shoulder widening on selected lengths 4.8 km to 17.7 km north of Tamworth. Major reconstruction to provide dual carriageways on the first Moonbi Range 24.9 km to 30.1 km north of Tamworth continued. Earthworks were completed from 27.7 km to 30.1 km and a major 17 m deep granite rock cut at 27.2 km commenced.

Work was completed on pavement and formation widening between 62.3 km and 70.4 km north of Tamworth. The work included the construction of climbing lanes over particular sections.

Work was completed on the access to the Thunderbolts Rock Reserve, 82 km north of Tamworth.

Work was commenced on construction of a deviation between Uralla and Barleyfields, 90.2 km to 94.1 km north of Tamworth.

The Department has completed reconstruction and bituminous surfacing between 3.8 km and 5.8 km north of Glen Innes.

Work commenced on reconstruction and bituminous surfacing between 5.8 km and 9.6 km north of Glen Innes.

Reconstruction and bituminous surfacing between 17.7 km and 22.8 km north of Glen Innes was completed.

Work continued on the reconstruction and bituminous surfacing between 83.8 km and 89.1 km north of Glen Innes (3.3 km to 8.6 km south of Tenterfield).

Tenterfield Shire Council has commenced reconstruction of Rouse Street (SH9) between Molesworth and Petrie Streets, a total length of 0.4 km.

The Department has commenced construction of the approaches to the new bridge over Browns Creek between 8.1 km and 10.5 km north of Tenterfield.

SH10 - Pacific Highway

The Department completed the restoration of a slip at 71.6 km north of Sydney.

Construction of the approaches to the duplicate bridge at Ourimbah Creek, 1.8 km to 2.9 km north of SH26 is nearing completion.

Construction of a slow speed lane for northbound traffic at Wallarah Hill 34.7 km to 36.9 km north of Gosford was completed.

Construction of divided carriageways between Oakdale Road and Oxford Street Gateshead, 12.2 km to 13.3 km south of Newcastle was completed.

Construction of approaches to the bridge over Traynors Creek 3.7 km north of Bulahdelah continued.

Taree Municipality commenced reconstruction of a short length of highway between the proposed new duplicate bridges over Browns Creek and the railway line at Chatham.

Work was completed on the reconstruction and widening of distressed pavement from 12 km to 15 km north of Taree.

Construction continued on a deviation in the approaches to a new bridge at Two Mile Creek 23.0 km to 24.8 km north of Taree.

Reconstruction and widening of distressed pavement between Passionfruit Creek and Kew 39.6 km to 50 km north of Taree was completed.

A short length of approaches was constructed to a new bridge size reinforced concrete box culvert over Walkers Creek 53.4 km north of Taree.

Widening of the approaches to the bridge at Herons Creek 55.4 km north of Taree was commenced.

Construction continued on a deviation over the Cooperabung Mountain between 96.5 km and 100.5 km north of Taree.

The reconstruction between 14.0 km and 19.5 km north of Kempsey with continuously reinforced concrete pavement and sealed shoulders was completed.

The reconstruction and widening of distressed pavement at Eungai 33.5 km to 37.8 km north of Kempsey was commenced.

Work was completed on the reconstruction of damaged pavement between 65.2 km and 66.0 km north of Kempsey (between Woodbell Street and Beer Parade Nambucca Heads).

Reconstruction of a deviation at Double Crossing Creek between 19 km and 24 km north of Coffs Harbour continued

Construction of the approaches to the new bridge over Swan Creek 4.0 km to 6.3 km north of Grafton was commenced.

Construction of the approaches to a new railway overbridge at Bangalow was completed.

Construction of a new carriageway for northbound traffic at Oak Avenue between 14.8 km and 19.8 km north of Murwillumbah was completed.

SH11 - Oxley Highway

The reconstruction east of Walcha was virtually all completed from 103.9 km to 111.1 km west of Wauchope. A dust free road surface between Walcha and the coast has now been provided and the short sections with a prime seal will receive final bitumen seals in the next spraying season. The construction Works Office established originally at Walcha to administer the building of the highway east of Walcha has been closed upon completion of work, with the remaining short length of final seal and ancillary work to be administered from Armidale Works Office.

Parry Shire Council is continuing with reconstruction from 40.1 km to 42.2 km west of Tamworth, including extension and enlargement by contract of an existing reinforced concrete box culvert at Long Hollow Gully, 40.8 km west of Tamworth.

Contract works at the culvert at Long Hollow Gully have now been completed and the roadworks are in hand by Council's own forces.

Parry Shire Council is also continuing with reconstruction from 42.4 km to 44.4 km west of Tamworth including approaches to the new bridge and reinforced concrete box culvert at Menedebri Creek. The new bridge and culvert were constructed by the Department by contract, and the associated roadworks are now nearing completion by Council's own forces.

Liverpool Plains Shire Council completed widening the formation and seal 16.0 km to 18.8 km east of Gunnedah and commenced similar work 2.7 km to 4.9 km east of Gunnedah.

The approaches to Coxs Creek bridge 66.8 km to 68 km east of Coonabarabran were commenced and completed to primer seal stage.

The reconstruction of the section 61.3 km to 64.7 km east of Coonabarabran continued.

Widening of pavement in the section 15.3 km to 18.2 km east of Coonabarabran was completed.

SH12 - Gwydir Highway

The Department is continuing restoration and widening the existing pavement for short distances totalling 5.0 km between 16.8 km and 38.8 km east of Glen Innes. Now 4.5 km of this length has been completed.

Glen Innes Municipal Council is continuing reconstruction and bituminous surfacing between 0.2 km and 1.4 km east of Glen Innes. The rural section of this reconstruction has been completed to primer stage.

Severn Shire Council has completed minor realignment and widening of the existing pavement to 6.7 m between 3.7 km and 5.7 km west of Glen Innes.

Macintyre Shire Council is continuing strengthening and widening the existing pavement east of Inverell. Council is at present working on the sections 11.7 km to 13.5 km and 14.8 km to 17.4 km east of Inverell.

Yallaroi Shire Council has commenced strengthening and widening the existing pavement of 3.7 m width to 6.7 m width between 27.6 km and 41.4 km west of Warialda.

The Department is continuing reconstruction and bituminous surfacing between 59.6 km and 64.4 km west of Moree.

SH14 - Sturt Highway

Reconstruction of the section 33.4 km to 41.0 km east of Wagga Wagga was completed during the year. Reconstruction of the adjoining section 23.2 km to 33.4 km east of Wagga Wagga is continuing.

The deviation between Dobney Avenue and the junction with TR78 west of Wagga Wagga was completed by Wagga Wagga City Council, except bituminous concrete surfac-

ing.

Reconstruction and bituminous surfacing on improved alignment and widening of formation was completed from 25.9 km to 28.9 km east of Balranald. Work was commenced on the section from 28.9 km to 33.8 km east of Balranald.

Reinstatement and bituminous surfacing of stabilised pavement from 27.2 km to 31.4 km west of Hay was completed

Widening and strengthening of narrow pavement on the sections from 45.5 km to 46.7 km and 47.9 km to 48.7 km west of Hay was completed. The shoulders in between these two lengths were widened and shoulder sealing was completed throughout from 45.5 km to 48.7 km west of Hay.

Widening of formation and sealing of shoulders was completed between 0.2 km and 2 km west of Hay.

Reconstruction was completed between 0.0 km and 2.8 km east of Euston. Final seal of the section 73.4 km to 78.9 km east of Euston was completed. Final seal of the section 27.3 km and 32.5 km west of Euston was completed.

Reconstruction between 34 km and 38.2 km east of Mildura was completed. Reconstruction commenced between 38.2 km and 47.5 km east of Mildura.

SH15 - Barton Highway

Work continued during the year on a programme of pavement strengthening and formation widening. The work undertaken in the current financial year includes formation widening between 22.7 km and 24.2 km south of Yass to provide a pavement width of 7.4 m, and shoulder widening and drainage improvement between 33.8 km and 36.6 km south of Yass. This work is a continuing programme throughout the length of the Barton Highway to provide an improved traffic facility.

SH16 - Bruxner Highway

Tenterfield Shire Council commenced strengthening and widening the existing pavement of 3.7 m width to 6.7 m width between 9.6 km and 14.3 km west of Tenterfield.

Tenterfield Shire Council is continuing reconstruction and bituminous surfacing between 51.5 km and 57.3 km west of Tenterfield.

The Department completed reconstruction and bituminous surfacing between 58.0 km and 62.8 km west of Tenterfield.

Ashford Shire Council commenced construction and bituminous surfacing between 15.6 km and 18.4 km west of Yetman. This is part of the deviation between Yetman and Boggabilla. Ashford Shire Council is continuing with the construction and bituminous surfacing between 1.6 km and 15.6 km west of Yetman.

Yallaroi Shire Council is continuing construction and bituminous surfacing of the Yetman-Boggabilla deviation, 18.4 km to 42.7 km west of Yetman.

Boolooroo Shire Council completed widening and reconstruction between 0.0 km and 7.0 km east of Boggabilla.

Lismore City Council continued construction of the Ballina Street deviation in Lismore.

SH17 - Newell Highway

Restoration of the existing pavement between 14.6 km and 15.4 km south of Moree was completed.

The Department is reconstructing existing failed pavement edges for lengths totalling 5.1 km between 4.0 km and 46.0 km north of Moree.

Work continued on the reconstruction and bituminous surfacing between 0.4 km and 8.4 km west of Boggabilla.

The final seal was completed by the Department on the approaches to the Namoi River Bridge 1.9 km to 2.5 km south of Narrabri.

Work commenced on the construction of the approaches to the Narrabri Creek and Rivulet Bridge, at 0.19 km to 0.68 km south of Narrabri.

Jemalong Shire Council commenced pavement widening and improvement of the alignment between the southern approach to Fitzgeralds Bridge and the junction of MR377 (Section II, 5.0 km to 7.1 km south of Forbes). Section I, 3.0 km to 5.0 km south of Forbes was completed.

Pavement strengthening and widening 16.1 km to 21.6

km north of Forbes was completed.

Reconstruction and bituminous surfacing between Baker Street and Hartigan Avenue in Parkes was commenced by the Department in conjunction with Parkes Municipal Council.

Reconstruction of the section of the highway in Clarinda Street Parkes was completed. Reconstruction and bituminous surfacing 31.7 km to 34.8 km north of Parkes is partially completed.

Approaches to the new box culvert at Turn Back Jimmy Creek were constructed between 13.7 km and 14.7 km

north of Jerilderie.

Formation widening, shoulder and pavement edge reconstruction, plus shoulder sealing were completed from 22.9 km to 39.3 km north of Jerilderie.

Reconstruction and bituminous surfacing was completed from 5.8 km to 8.9 km north of Finley.

SH18 - Castlereagh Highway

Reconstruction is continuing between 80.5 km and 103 km north of Walgett.

SH19 - Monaro Highway

Work commenced on the reconstruction of the section 78.7 km to 82.0 km south of Canberra, which includes the approaches to a new bridge over the Bredbo River at Bredbo.

Reconstruction of the section 82 km to 89 km south of Canberra continued and the whole of the work was completed to prime stage and opened to traffic.

Bibbenluke Shire Council commenced gravelling and sealing the length between 17.1 km and 34.3 km south of Bombala. Approximately 40 per cent of the work has been completed.

SH20 - Riverina Highway

Work was completed on the reconstruction and bituminous surfacing from 4.3 km to 6.7 km west of Finley.

Reconstruction of shoulders and pavement edges, including shoulder sealing, was completed from 9.1 km to 28.0 km east of Deniliquin.

Berrigan Shire Council completed reconstruction of Chanter Street Berrigan.

SH21 - Cobb Highway

Construction and bitumen sealing of the southern approach to the existing bridge over the Lachlan River at Booligal from 76.8 km to 77.7 km north of Hay was completed.

Deniliquin Municipal Council commenced reconstruction of failed pavement at the channelised intersection with SH20 (Riverina Highway) at 2.5 km north of Deniliquin.

Reconstruction from 11.1 km to 33.0 km south SH8 was continued.

SH23 - Charlestown to Sandgate

Strengthening and resheeting of Blue Gum Road, Jesmond 8.6 km to 9.4 km north of Charlestown was commenced, by Newcastle City Council.

SH24 - Mount Lindesay Highway

The Department is continuing reconstruction and bituminous surfacing between 9.4 km and 11.1 km north of Woodenbong.

SH25 - Illawarra Highway

Reconstruction to an improved alignment and grading between Wells Creek and the Hume Highway 58.9 km to 63.9 km from SH1 continued and the section is almost complete.

TRUNK ROADS

TR51 - Canberra-Batemans Bay

Eurobodalla Shire Council continued construction of climbing lanes between 20.3 km and 21.4 km west of Batemans Bay.

Tallaganda Shire Council continued the construction of the approaches to the new Warri Bridge over the Shoalhaven River at 13.0 km north of Braidwood.

Tallaganda Shire Council completed reconstruction of the junction of TR79 and TR51 (Doughboy Junction) at 47.6 km east of Queanbeyan (27.4 km north of Braidwood).

Tallaganda Shire Council commenced pavement strengthening, drainage improvement and formation widening from 34.8 km to 35.8 km north of Braidwood.

Yarrowlumla Shire Council completed formation widening and drainage improvement works between 4.6 km and 6.4 km east of Queanbeyan.

TR52 - Queanbeyan-Crookwell

Queanbeyan City Council commenced reconstruction to dual carriageway of "Yass Road" between TR51 and the A.C.T. Border, north of Queanbeyan.

Goodradigbee Shire Council continued the reconstruction and bituminous surfacing between 0 km and 4 km south of Gundaroo, gravelling being carried out during the financial year.

Gunning Shire Council reconstructed the northern approach to Yass River Bridge at 32.1 km south of Gunning.

Gunning Shire Council completed reconstruction to basecourse stage on the section 25.9 km to 26.7 km south of Gunning.

TR54 - Goulburn-Ilford

Crookwell Shire Council completed the sealing of approaches to box culverts at Binda Vale Creek at 19.0 km north of Crookwell.

Abercrombie Shire Council completed reconstruction and bituminous surfacing between 48.0 km and 49.0 km south of Bathurst.

Turon Shire Council continued reconstruction and bituminous surfacing of a deviation at Sofala including the junction of MR216.

Rylstone Shire Council continued reconstruction and bituminous surfacing from 11.8 km to 13.8 km west of ilford.

TR55 - Marrangaroo to Mullaley

Coolah Shire Council completed reconstruction and bituminous surfacing between 14.6 km and 15.8 km north of Coolah.

Coonabarabran Shire Council continued the reconstruction of the section 29.8 km to 34.4 km north of Coolah.

Liverpool Plains Shire Council is proceeding with construction of the section between 25.1 km to 27.6 km south of Mullaley.

TR56 - Yass-Forbes

Boorowa Shire Council completed reconstruction and bituminous surfacing from 42.8 km to 45.2 km (northern boundary) north of Boorowa.

Forbes Municipal Council commenced reconstruction and bituminous surfacing from Berkley Street to Iron Bridge at Forbes.

TR57 - Old Junee-Temora-Condobolin-Nyngan

Temora Municipal Council completed the reconstruction and bituminous surfacing of the section between 50.7 km and 51.6 km north of TR78.

Bland Shire Council completed the reconstruction and bituminous surfacing between 30.6 km and 45.9 km north of West Wyalong.

Lachlan Shire Council continued the reconstruction and sealing from 3.2 km to 6.4 km south of Tottenham. Council is also proceeding with construction of approaches to new bridge over Wallamundry Creek 11.5 km south of Condobolin.

TR61 - Orange-Cobar

Canobolas Shire Council completed reconstruction and bituminous surfacing from 1.3 km to 2.5 km west of Orange City Boundary. Work on the section 2.5 km to 4.8 km west of Orange City Boundary was continued.

TR62 - Scone-Coolah

Scone Shire Council commenced reconstruction of the section 40.5 km to 41.9 km west of Scone.

TR63 - Tamworth-Bingara-Warialda-Yetman

Parry Shire Council commenced preliminary works on the section 20.7 km to 21.9 km north of Tamworth.

Parry Shire Council completed reconstruction of the section 30.1 km to 30.7 km north of Tamworth.

Barraba Shire Council substantially completed major restoration works to pavement failures 15.3 km to 17.9 km south of Barraba.

Barraba Shire Council completed construction of the approaches to the new bridge over Sheepstation Creek at Cobbadah 18.5 km north of Barraba except for final seal.

Yallaroi Shire Council completed strengthening and widening between 16.0 km and 17.4 km south of Warialda.

Yallaroi Shire Council completed the reconstruction of approaches to Oakey Creek 15 km south of Warialda.

Yallaroi Shire Council continued the reconstruction and bituminous surfacing between 45.1 km and 49.2 km north of Warialda.

Ashford Shire Council completed the construction and bituminous surfacing of the approaches to Ottleys Creek at 32.6 km north of Warialda.

TR65 - Lismore-Ewingsdale

Byron Shire Council completed reconstruction from 23.4 km to 24.9 km east of Lismore.

TR86 - Broken Hill to TR88 near Menindee

The Department commenced reconstruction of the section 3.5 km to 4.1 km east of Broken Hill.

TR67 - Ivanhoe-Swan Hill

Balranald Shire Council completed reconstruction and surfacing from 37.0 km to 39.0 km north of Balranald and commenced reconstruction from 39.0 km to 42.0 km north of Balranald.

TR68 — South Australian Border near Renmark to Queensland Border near Mungindi

Central Darling Shire Council completed construction of approaches to the new bridge over the Darling River at Menindee.

Bourke Shire Council commenced reconstruction of the section 6.0 km to 7.5 km east of Bourke.

Walgett Shire Council completed construction of the approaches to the new bridge over the Mooni River at Gundabloui between 46.4 km and 50.0 km north of Collarenchii

TR70 - Coolabah to Queensland Border near Hebel

Bogan Shire Council completed reconstruction and bituminous surfacing between 7.2 km and 16.0 km north of Coolabah.

Brewarrina Shire Council continued reconstruction between 26.2 km and 34.3 km north of Brewarrina.

TR72 - Willow Tree-Quirindi-Gunnedah-Narrabri

Tamarang Shire Council continued reconstruction from 13.7 km to 15.2 km north of Quirindi including approaches to the recently completed new bridge over Quipolly Creek at 14.6 km.

TR73 - Walcha-Uralla-Bundarra-Inverell

Uralla Shire Council completed the reconstruction of the section 28.5 km to 30.9 km north-west of Uralla.

Guyra Shire Council continued the reconstruction and bituminous surfacing between 19.0 km and 23.8 km south of Inverell.

Inverell Municipal Council continued the reconstruction and bituminous surfacing between 2.8 km and 3.9 km south of Inverell.

TR74 - Armidale-Grafton

Armidale City Council completed reconstruction of the section between Taylor and Douglas Streets, Armidale.

Dumaresq Shire Council continued with reconstruction between 76.2 km and 78.0 km east of Armidale.

Nymboida Shire Council completed the construction of the deviation from 84.8 km to 88.5 km south of Grafton.

TR75 - Kempsey-Wollomombi

Kempsey Shire Council continued construction of a deviation in approach to a new bridge over Hickeys Creek at Willawarrin 28.4 km to 30.1 km west of Kempsey.

Kempsey Shire Council continued reconstruction from 55.0 km to 56.8 km west of Kempsey, the eastern ascent of Tynes Hill.

TR76 - Raleigh-Ebor

Bellingen Shire Council commenced reconstruction between 18.1 km and 19.3 km west of Bellingen on the Dorrigo Mountain Pass.

TR77 - Craboon-Gilgandra

Coolah Shire Council commenced construction of the approaches to a proposed new bridge over Merrygoen Creek at Mendooran to replace a timber truss bridge which is subject to a load restriction.

Gilgandra Shire Council completed reconstruction and bituminous surfacing 32.3 km to 34.1 km east of Gilgandra.

TR78 - Cowra-Hume Highway near Ettamogah

Waugoola Shire Council continued with reconstruction and bituminous surfacing from 3.1 km to 3.9 km south of Cowra.

Burrangong Shire Council completed pavement strengthening and widening of shoulders from 39.4 km to 40.6 km north of Young.

Burrangong Shire Council completed pavement strengthening and improvement from 3.5 km to 9.3 km south of Young.

Cootamundra Shire Council completed reconstruction and sealing from 5.2 km to 6.4 km south of Cootamundra.

Illabo Shire Council completed reconstruction and bituminous surfacing of the section 20.4 km to 23.7 km north of Junee.

Junee Municipal Council continued with reconstruction and bituminous surfacing of the section 1.4 km to 2.8 km west of Junee.

Mitchell Shire Council commenced reconstruction and bituminous surfacing of the section 14.2 km to 15.9 km north of Wagga Wagga.

Wagga Wagga City Council completed reconstruction and bituminous surfacing between 0.6 km and 2.4 km south of the Sturt Highway.

Hume Shire Council commenced reconstruction and bituminous surfacing of the section from 10.6 km to 12.7 km north of Albury.

TR80 - Narrandera-Mossgiel

Leeton Shire Council continued reconstruction and bituminous surfacing between 7.4 km and 11.5 km east of Leeton.

Wade Shire Council commenced the reconstruction and bituminous surfacing of the section 9.9 km to 12.4 km east of Griffith.

Wade Shire Council continued the reconstruction and bituminous surfacing between 1.2 km and 2.7 km west of Griffith.

TR82 - Newcastle-Jesmond

Newcastle City Council continued the reconstruction and widening between Lloyd and Croudace Streets, Lambton, 4.4 km to 5.3 km from SH10 – Pacific Highway. Newcastle City Council commenced the construction of dual carriageways between Lawson and Samdon Streets, Hamilton.

TR83 - Grafton-Woodenbong

Richmond River Shire Council completed reconstruction between 93.7 km and 95.4 km north of Grafton.

Kyogle Shire Council continued reconstruction between 4.8 km and 7.2 km north of Kyogle.

TR84 - Bowning-Temora

Goodradigbee Shire Council commenced a programme of formation widening over short lengths to improve conditions for traffic.

TR85 - Gilmore-Jingellic '

Tumut Shire Council continued the reconstruction and bituminous surfacing between 19.0 km and 23.2 km south of Gilmore.

TR86 - Riverina Highway-Corowa

Corowa Shire Council continued reconstruction and bituminous surfacing from 0.0 km to 3.0 km south of the Riverina Highway towards Corowa.

TR89 - Narromine-Tomingley

Timbrebongie Shire Council completed construction of the approaches to Backwater Cowal Bridge 4.1 km to 4.9 km south of Narromine.

TR90 - Pacific Highway near Karuah to Pacific Highway

Great Lakes Shire Council commenced construction of the approaches to the bridge over Camerons Creek 15.9 km to 16.9 km from SH10.

Great Lakes Shire Council commenced reconstruction of failed sections north of Stroud Road, 39.2 km to 60.2 km south of Taree.

Gloucester Shire Council completed construction from 1.4 km to 5.5 km east of Gloucester.

Manning Shire Council commenced reconstruction from 69.2 km to 71.9 km north of Gloucester.

TR91 - Princes Highway near Pambula-Bombala

Imlay Shire Council completed reconstruction of the length between 24.3 km and 26.7 km west of Pambula which includes the approaches to a new bridge over Honeysuckle Creek.

Bibbenluke Shire Council completed reconstruction between 21.1 km and 22.6 km east of Bombala and continued reconstruction of the section 22.6 km to 25.6 km.

TR95 - Picton-Wollongong

The Department commenced the deviation at Maldon to include the new interchange with the South Western Freeway (F5) and the approaches to the new Maldon Bridge. The deviation extends 35.0 km to 44.5 km from Wollongong.

The Department continued strengthening and widening the existing formation from 7.0 km to 21.5 km west of

The Department continued reconstruction to provide four lanes between the junction with MR513 and the start of the Wollongong by-pass.

ORDINARY MAIN ROADS

MR101 - Maitland-TR90 at Weismantels

Maitland City Council completed reconstruction of a flood damaged embankment at Mindaribba from 9.98 km to 10.4 km east of Maitland.

MR105 - Scone-SH9 at Nemingha

Scone Shire Council completed reconstruction of sections at 13.7 km and 16.9 km east of Scone where the road formation was damaged during the 1971-72 floods.

Nundle Shire Council continued construction of a deviation from 41.2 km to 43.6 km south of Tamworth to avoid Chaffey Dam currently under construction.

MR106 - Nundle-SH9

Nundle Shire Council completed reconstruction of the section from 7.8 km to 9.2 km west of Nundle and commenced the reconstruction of the section from 28.5 km to 30.5 km west of Nundle.

MR111 - SH10 north of Bulahdelah-Forster-SH10 near Purfleet

Great Lakes Shire Council completed road widening work between Beach and Mark Streets Forster.

MR127 - Narrabri-Wee Waa-Walgett

Namoi Shire Council commenced the construction of the approaches to a recently completed 18 cell reinforced concrete box culvert at 7.7 km west of Wee Waa.

Namoi Shire Council continued reconstruction of the section 8.6 km to 10.4 km west of Wee Waa.

MR128 - Singleton-MR101 at Gostwyck

Singleton Shire Council commenced reconstruction between 15.2 km and 15.7 km from Singleton.

MR129 - Quirindi-Coonabarabran-Coonamble-Quambone

Tamarang Shire Council continued reconstruction of the section 43.7 km to 49.2 km west of Quirindi.

MR132 - Barraba-Bundarra

Barraba Shire Council completed construction of the section from 14.8 km to 17.9 km east of Barraba and commenced construction of a section 17.9 km to 19.9 km east of Barraba.

Uralla Shire Council completed reconstruction of the section 1.3 km to 2.3 km west of Bundarra.

MR134 - Bingara-Ashford

Bingara Shire Council continued reconstruction and bituminous surfacing between 17.8 km and 24.0 km northeast of Bingara.

MR135 - Ebor-Intersection at TR73 at Gilgai

Guyra Shire Council completed the reconstruction and bituminous surfacing between 26.6 km and 27.5 km west of Guyra.

Guyra Shire Council continued reconstruction and bituminous surfacing between 30.4 km and 32.03 km west of Guyra.

Macintyre Shire Council commenced reconstruction and bituminous surfacing between 40.2 km and 43.4 km east of Inverell.

MR136 - Inverell-Deepwater

Macintyre Shire Council continued reconstruction and bituminous surfacing between 12.1 km and 16.9 km northeast of Inverell.

Severn Shire Council continued reconstruction and bituminous surfacing between 29.6 km and 38.6 km west of Deepwater.

MR137 - Inverell-Bonshaw

Macintyre Shire Council continued construction and bituminous surfacing of the approaches to Swanbrook Creek, 5.6 km north of Inverell.

Ashford Shire Council commenced reconstruction and bituminous surfacing between 17.2 km and 19.5 km north of Ashford.

Ashford Shire Council completed reconstruction and bituminous surfacing between 28.9 km and 31.0 km north of Ashford.

Ashford Shire Council continued reconstruction and bituminous surfacing between 31.0 km and 33.0 km north of Ashford.

MR151 - Coffs Harbour-TR74 near Grafton

Coffs Harbour Shire Council continued reconstruction between 21.4 km and 25.0 km north of Coffs Harbour including the approaches to new bridges.

MR181 - Wisemans Ferry-MR503 near Singleton

Colo Shire Council commenced reconstruction and bituminous surfacing between 1.6 km and 4.4 km north of Webbs Creek Ferry.

MR187 - Inverell-TR63 south of Yetman

Macintyre Shire Council commenced construction and bituminous surfacing of approaches to a 2 cell reinforced concrete box culvert at 15.9 km north of Inverell.

MR201 - TR54-Wyangia Dam

Crookwell Shire Council completed reconstruction and bituminous surfacing between 29.1 km (Junction Point Road) and 35.4 km north of Crookwell.

MR206 - Dunedoo-Dubbo

Coolah Shire Council completed reconstruction and bituminous surfacing of approaches to new bridge over Tucklan Creek, 9.7 km west of Dunedoo.

Talbragar Shire Council continued construction of approaches to Plain Creek Bridge from 20.4 km to 21.9 km east of Dubbo. The bridge was completed by Council contract.

MR209 - Muswellbrook-Denman-Sandy Hollow-Merriwa

Denman Shire Council completed construction of the bridge and approaches over Ramrod Creek, 2.6 km south of Muswellbrook.

MR211 - Wagga Wagga-Holbrook

Kyeamba Shire Council completed reconstruction and bituminous surfacing between 14.1 km to 16.0 km from Wagga Wagga south to Holbrook.

MR213 -- from MR503 near Singleton to MR209 near Denman

Denman Shire Council continued reconstruction and bituminous surfacing between 12.0 km to 13.4 km west of Jerrys Plains.

MR217 - Wyong-Toronto-Wallsend

Newcastle City Council commenced reconstruction, widening and surfacing of Thomas Street between Newcastle Road and Irving Street Wallsend.

MR220 - Cessnock-Toronto

Greater Cessnock City Council completed construction of the bridge and approaches over Brunkerville Creek 22.9 km to 24.5 km from Cessnock.

MR225 - McGraths Hill-Gosford

Gosford Shire Council continued reconstruction of the section 35.7 km to 40.6 km west of Gosford.

MR232 - Moree-Boonangar

Boomi Shire Council commenced reconstruction between 74.0 km and 75.2 km north of Moree.

MR233 - TR55-SH17 at Parkes

Molong Shire Council completed reconstruction and bituminous surfacing from 66.5 km to 68.2 km south of Wellington.

MR237 - Nashdale near Orange-Grenfell

Boree Shire Council completed reconstruction and bituminous surfacing from 24.6 km to 32.9 km west of Orange. Boree Shire Council completed construction of a reinforced concrete box culvert over Grove Creek, 47 km west of Orange.

Waugoola Shire Council completed reconstruction and bituminous surfacing from 36.5 km to 37.5 km east of Grenfell

Jemalong Shire Council completed reconstruction and bituminous surfacing from 34.1 km to 36.5 km east of Grenfell.

Weddin Shire Council completed construction of a 5 cell reinforced concrete box culvert at 24.7 km east of Grenfell. Weddin Shire Council completed reconstruction and bituminous surfacing from 23.6 km to 26.5 km east of Grenfell

MR238 - Parkes-Canowindra

Goobang Shire Council commenced reconstruction and bituminous surfacing between Mugincoble and Jemalong Shire Boundary, 6.8 km to 12.6 km south of Parkes.

MR241 - Gunning-Temora

Burrangong Shire Council completed reconstruction and bituminous surfacing from 6.4 km to 10.9 km east of • Young including approaches to Wambanumba Creek Bridge.

MR243 - Gundagai-SH17 near Narrandera

Gundagai Shire Council completed realignment of a short section adjacent to the northern abutment of the new bridge over the Murrumbidgee River at Gundagai.

MR246 - TR54 near Trunkey Creek

Lyndhurst Shire Council continued reconstruction and bituminous surfacing from 22.0 km to 27.8 km west of Bathurst.

MR248 - Taraiga-Boorowa

Boorowa Shire Council completed reconstruction and bituminous surfacing from 12.6 km to 15.1 km east of Boorowa.

MR255 - Oberon to Meadow Flat

Oberon Shire Council completed construction of a twin cell reinforced concrete box culvert over Kings Stockyard Creek including reconstruction of approaches.

MR256 - Oberon-Goulburn

Oberon Shire Council completed reconstruction and bituminous surfacing between 34.1 km and 39.5 km south of Oberon. A further section between 39.5 km and 41.5 km is under construction.

MR272 - Tilba Tilba-Bega

Mumbulla Shire Council continued construction of the deviation from 2.5 km to 7.5 km north of Bermagui to replace a section of the main road subject to storm damage.

Mumbulla Shire Council completed reconstruction between 18.3 km and 19.8 km north of Bega, including the approaches to a new reinforced concrete box culvert over Booths Creek.

MR282 - Tumbarumba-Hume Highway near Mullengandra

Tumbarumba Shire Council continued reconstruction and bituminous surfacing from 31.9 km to 33.8 km south of Tumbarumba and commenced work on the section from 33.8 km to 36.1 km south of Tumbarumba.

MR284 — TR85 near Tumbarumba-SH2 near Little Billabong

Holbrook Shire Council continued the construction of the approaches to the new bridge over Little Billabong Creek, 0.08 km east of the Hume Highway and commenced work on the section 0.08 km to 5.3 km east of the Hume Highway towards Tumbarumba.

MR289 - MR101 near Dungog-TR90 near Stroud

Dungog Shire Council commenced reconstruction and bituminous surfacing from 3.3 km to 4.6 km east of MR101.

MR319 - Cowra-Cudal

Cowra Municipal Council completed reconstruction and bituminous surfacing from the township towards the Municipal boundary on the section 2.9 km to 3.9 km north of SH6.

MR319 - Barham-Maude

Wakool Shire Council commenced construction of the approaches to the new bridge over Barber Creek, 8.05 km north of Barham.

Windouran Shire Council completed reconstruction and bituminous surfacing of the section 16.4 km to 20.1 km north of Moulamein.

MR320 - SH1 at Cobargo-Bermagui

Mumbulla Shire Council continued construction between 0.8 km and 2.5 km east of Cobargo forming the approaches to the new bridge over Narira Creek.

MR321 — From SH17 at 15.4 km north of Jerilderie to SH6 at 13.6 km west of Rankin Springs

Murrumbidgee Shire Council completed reconstruction and bituminous surfacing of the section 68.2 km to 77.6 km north of SH17.

Murrumbidgee Shire Council commenced work on the approaches to the new bridge over the Murrumbidgee River at Darlington Point 89 km north of SH17.

Murrumbidgee Shire Council completed a deviation from 0.0 km to 1.2 km north of SH14 to form a staggered intersection of MR321 and SH14.

MR323 — From SH17 at Jerilderie to MR131 near Oaklands

Jerilderie Shire Council completed reconstruction and bituminous surfacing of the section 27.8 km to 32.4 km west of SH17.

MR325 - Belmont to Charlestown and Boolaroo

Lake Macquarie Municipal Council completed the construction of a 1.1 km deviation from MR217 through Lake Macquarie Park at Cockle Creek to the Esplanade at Speers Point.

MR331 - Jingellic-Holbrook-Berrigan

Culcairn Shire Council completed reconstruction and bituminous surfacing of the section 1.5 km to 5.3 km west of Walbundrie.

Corowa Shire Council continued reconstruction and bituminous surfacing of the section 12.9 km to 14.5 km east of Daysdale.

MR336 - Gosford-The Entrance

Gosford Shire Council reconstructed the pavement between 3.7 km and 4.2 km from Gosford.

Wyong Shire Council completed reconstruction and bituminous surfacing between 3.4 km and 4.1 km from MR335 at Gosford Shire Boundary.

MR341 - Moama-Barham

Murray Shire Council commenced reconstruction and bituminous surfacing of the section 70.5 km to 74.2 km west of Moama.

MR347 - Melrose-Collie

Timbrebongie Shire Council completed reconstruction and bituminous surfacing from 23.4 km to 32.0 km south of Trangie.

Warren Shire Council continued reconstruction of the section 6.4 km to 8.7 km south from Collie towards Trangie.

MR350 - Forbes-Tullamore

Goobang Shire Council completed construction of a reinforced concrete box culvert and approaches to eliminate a causeway at "Murderer's Waterhole" 14.4 km north of Forbes.

Goobang Shire Council completed reconstruction and bituminous surfacing from 16.1 km to 21.1 km north of Trundle.

MR357 - Manilla-Boggabri

Manilla Shire Council continued reconstruction of the section from 12.9 km to 16.6 km west of Manilla.

MR358 - Merriwa-Willow Tree

Merriwa Shire Council continued reconstruction of a section from 9.9 km to 12.1 km north of Merriwa.

Murrurundi Shire Council commenced the reconstruction of the section 25.7 km to 29.0 km south of Willow Tree.

MR359 - Molong-TR61

Molong Shire Council completed reconstruction and bituminous surfacing from 10.5 km to 13.3 km south of Molong.

MR362 - Koreelah-Urbenville

Tenterfield Shire Council completed reconstruction and bituminous surfacing between 0.5 km and 1.0 km, and between 10.4 km and 12.5 km west of Urbenville.

MR363 - From MR550 north of Barooga to Berrigan

Berrigan Shire Council commenced work on the section 8.0 km to 9.1 km north of MR550.

Berrigan Shire Council completed reconstruction and bituminous surfacing of the section 11.5 km to 12.3 km north of MR550.

MR368 - From SH6 at Rankin Springs to Hillston

Carrathool Shire Council completed reconstruction including curve improvement between 2.2 km to 3.9 km north of Rankin Springs.

Carrathool Shire Council completed work on the improvement of drainage at causeways between 0.0 km and 8.8 km north of Rankin Springs.

MR377 - TR61-Forbes-Condobolin

Boree Shire Council continued reconstruction and bituminous surfacing 53.1 km to 61.1 km south of Orange.

Jemalong Shire Council continued the construction of a reinforced concrete box culvert at 12.7 km and approaches 11.2 km to 13.4 km west of Forbes to replace a narrow timber bridge on a poor alignment.

MR383 - Coonamble-Pilligs

Coonamble Shire Council continued reconstruction between 16 km and 21 km north of Coonamble.

MR386 - From TR67 at 11 km north of Swan Hill to MR319 near Moulamein

Wakool Shire Council commenced the reconstruction of the section 36.2 km to 39.0 km west of MR319.

MR396 - Coolah-Coonabarabran

Coonabarabran Shire Council continued the approaches to Merryula Creek Bridge and reconstruction from 24.9 km to 25.3 km north of Binnaway.

MR398 - Grenfell-Coolamon

Weddin Shire Council continued reconstruction and bituminous surfacing from 43.5 km to 44.3 km south of Grenfell, and commenced reconstruction and bituminous surfacing from 44.3 km to 46.5 km south of Grenfell.

Narraburra Shire Council continued reconstruction and bituminous surfacing of the section 19.0 km to 23.8 km south of Ariah Park.

Coolamon Shire Council continued reconstruction and bituminous surfacing between 29.2 km to 33.0 km north of Coolamon.

MR399 - Qld Border-MR143

Tweed Shire Council completed reconstruction between 18.4 km and 19.8 km north of Murwillumbah.

MR405 - North Bourke-South Australian Border-Hawker Gate

Bourke Shire Council continued construction of approaches to new bridges on the Paroo River, 190 km west of Bourke.

MR421 - Cobar-Bourke

Cobar Shire Council completed reconstruction of the intersection of MR407 and MR421 in Cobar, commenced reconstruction of the section 9.7 km to 14.7 km north of Cobar and commenced the construction of culverts north of 14.7 km.

MR435 - Wilcannia-Willaroy

Central Darling Shire Council continued reconstruction of the formation from 42.2 km to 70.7 km north of Wilcannia.

MR501 - Lake Cargelligo-Booligal

Carrathool Shire Council completed reconstruction and bituminous surfacing of the section 11.6 km to 14.5 km east of TR80 at Hillston.

MR503 - Windsor-Singleton

The Department commenced construction of the approaches to the new bridge over Howes Creek between 10.9 km and 11.7 km north of Windsor.

The Department completed reconstruction and widening between 17.6 km and 18.3 km north of Windsor and commenced reconstruction and widening between 18.3 km and 19.6 km north of Windsor.

The Department completed replacement of timber structures at Mellong and Kangaroo Waterholes, 91.5 km and 92.8 km south of Singleton.

Singleton Shire Council continued reconstruction and bituminous surfacing from 21.7 km to 23.6 km south of Singleton.

MR504 - Gosford-The Entrance Road-Avoca Beach

Gosford Shire Council continued reconstruction of MR504 between 0.0 km and 1.0 km towards Kincumber.

MR507 - Mungindi-Goondiwindi

Boolooroo Shire Council continued reconstruction between 51.8 km and 66.8 km west of Goondiwindi.

MR513 - Princes Highway at Bulli Pass-TR95 near Brokers Nose

The Department continued construction to provide four lanes between Bellambi Creek and the junction with TR95 including a deviation at Cataract Creek.

MR514 - From Hay to Penarie

Hay Shire Council commenced reconstruction and bituminous surfacing of a further section of gravelled road from 68.8 km to 73.0 km west of Hay.

MR516 - Mort Street, Lithgow

Lithgow City Council completed reconstruction and widening from Lithgow Street to Burns Lane.

MR518 - Williamtown to Pacific Highway

Port Stephens Shire Council completed construction of a 5.4 km deviation commencing at the Highway and replacing a section inundated by the Grahamstown Water Supply Scheme.

MR522 - SH1 near Shellharbour Railway Station-Wentworth Road, Wollongong

Work on the provision of dual carriageways between Warrawong and Shellharbour is almost complete.

Wollongong Council completed the second carriageway in King Street Warrawong at the northern end of the work and Shellharbour Council commenced the Shellharbour by-pass which will complete the southern extension.

MR526 - SH7-Mount Canobolas

Orange City Council completed reconstruction and bituminous surfacing from McKay Crescent to Laurel Street Orange.

MR544 - TR83-MR142

Lismore City Council continued reconstruction between 10 km and 12 km west of Lismore.

MR552 - From SH21 at Deniliquin to SH17 at Jerilderie

Conargo Shire Council commenced reconstruction and bituminous surfacing between 18.0 km and 20.8 km north of SH21 at Deniliquin.

Jerilderie Shire Council commenced reconstruction and bituminous surfacing on a new alignment between 0.0 km and 2.5 km west of SH17 at Jerilderie.

MR553 - Moonaran-Somerton

Manilla Shire Council completed reconstruction of the section 2.4 km to 8.0 km west of TR63.

MR565 - Bellinafante-Guntawang

Mudgee Shire Council continued work on the reconstruction and bituminous surfacing of the section 1.0 km to 5.8 km from the intersection with MR233 at Guntawang.

MR572 - SH7-Eumungerie

Talbragar Shire Council completed reconstruction and bituminous surfacing from 12.4 km to 20.0 km west of SH17 at Eumungerie.

MR573 — SH7 near Orange-Mitchell Highway near Wellington

Orange City Council commenced preliminary works on pavement strengthening 2.2 km to 3.2 km from Orange to Stuart Town.

Wellington Shire Council continued the construction of the approaches to Stoney Creek Bridge 55.5 km to 56.8 km north of Orange, and commenced reconstruction and sealing 56.8 km to 59.7 km north of Orange.

DEVELOPMENTAL ROADS

DR1171 - Welaregang-Tintaldra-Greg Greg Bridge

Tumbarumba Shire Council completed construction of the section 0.0 km to 4.8 km east of MR281.

DR1268 - Jinden Creek-Kybeyan River Bridge

Monaro Shire Council commenced widening of the formation over the lengths 1.5 km to 4.5 km north of Badja River and 2.5 km to 13.0 km south of Badja River.

Tallaganda Shire Council completed reconstruction to gravel standard between 66.6 km and 69.1 km south of Braidwood.

Tallaganda Shire Council completed modification of the existing road between Jinden Creek and 66.6 km south of Braidwood.

DR1315

Goodradigbee Shire Council completed construction to the end of its proclaimed length.

DR3223

Canobolas Shire Council continued reconstruction of the road to the Macquarie River at Dixons Long Point (section 3.1 km to 4.6 km from the Macquarie River).

DR3163 - Dungog to Gresford

Dungog Shire Council completed construction of the section 12.9 km to 14.8 km from Dungog.

TOURIST ROADS

TR4051 - Pine Avenue-Ballina Street

Ballina Shire Council commenced the final section of TR4051 linking Ballina with Byron Bay.

BRIDGE CONSTRUCTION

CLASSIFIED ROADS AND SPECIAL SUBSIDY BRIDGES

During the year 39 bridges, one pedestrian structure and 32 bridge size box culverts, i.e. with a waterway width of six metres or more were made available to traffic. In addition, widening works were completed on four structures, two bridges and two box culverts of which one bridge was widened for extra lanes.

The 73 structures, completed and opened to traffic during 1976-77, are situated on the various road classifications as

set out in the table below.

	Bridges	Bridge Size Culverts	Pedestrian Struc- tures	Widening Extra Lanes	Total
Freeways	8	_	_		8
State Highways	12	12	_	-	24
Trunk Roads	8	4	_	_	12
Main Roads	7	15	1	1	24
Developmental Works, Developmental Roads					
and Unclassified Roads	3	1		_	4.
County Roads	1	_	_	_	1
Total	39	32	1	1	73

At the end of the year 83 bridges, 23 culverts and three pedestrian structures were under construction or completed but not opened to traffic. In addition, widening of 12 structures was in hand, three for the provision of extra lanes. Of these 121 bridgeworks, 40 were completed but were not opened to traffic because associated roadworks were incomplete.

Of the 40 bridgeworks completed but not opened to traffic, 19 bridges were built by the Department (15 by contract) and seven bridges by Councils (5 by contract). Six of the culverts were built by the Department (5 by contract) and eight culverts by Councils (3 by contract).

PRINCIPAL BRIDGEWORKS COMPLETED DURING THE YEAR AND OPENED TO TRAFFIC

F5 - South Western Freeway over Main Southern Railway

The Department completed construction by contract of twin single prestressed concrete plank bridges over the Main Southern Railway Line at 103.5 km south of Sydney. Each new structure is 15.5 m long and provides two traffic lanes

F5 - South Western Freeway over Main Southern Railway

The Department completed construction by contract of twin single span prestressed concrete girder bridges over the Main Southern Railway Line near White Horse. Each new structure is 20.7 m long and provides two traffic lanes.

F5 - South Western Freeway over SH2

The Department completed construction by contract of twin three span steel arch framed girder bridges over SH2 at 105.6 km south of Sydney. Each new structure is 48.2 m long and provides two traffic lanes.

F5 - South Western Freeway at MR179

The Department completed construction by its own forces of a four span prestressed concrete beam bridge over the freeway at MR179 at 59.3 km south of Sydney. The new structure is 104.2 m long and provides two traffic lanes.

F6 - Southern Freeway at Harvey Street

The Department completed construction by contract of a two span reinforced concrete bridge to carry Harvey Street over the Southern Freeway at Dapto. The new structure is 46.9 m long and provides two traffic lanes and two footways.

SH2 – Hume Highway over Jones Creek at Gundagai

The Department completed construction by contract of a four span continuous reinforced concrete bridge over

Jones Creek on the Sheridan Street Interchange in Gundagai. The new bridge is 28.6 m long and provides three traffic lanes and two breakdown lanes.

SH2 - Hume Highway over Murrumbidgee River (Sheahan Bridge)

The Department completed construction by contract of a 27 span composite steel trough girder, and reinforced concrete bridge over the Murrumbidgee River at Gundagai. The new structure is 1 133.6 m long and provides two traffic lanes.

SH10 - Pacific Highway over Swan Creek

The Department completed construction by contract of a five span prestressed concrete girder bridge over Swan Creek 5.8 km north of Grafton. The new structure is 128.6 m long and provides two traffic lanes and replaces two old timber beam bridges 92.4 m and 28.3 m long.

SH11 - Oxley Highway over Coxs Creek

The Department completed construction by contract of a six span prestressed concrete plank bridge over Coxs Creek 67 km east of Coonabarabran. The new structure is 73.2 m long and provides two traffic lanes and replaces a narrow timber beam bridge 52.0 m long.

TR51 over Shoalhaven River (Warri Bridge)

The Department completed construction by contract of a seven span continuous steel girder and reinforced concrete bridge over the Shoalhaven River (Warri Bridge) 12.8 km north of Braidwood. The new structure is 196 m long and provides two traffic lanes and a footway and replaces an old single lane timber truss bridge 148 m long.

TR68 over Mooni River

The Department completed construction by contract of a six span prestressed concrete girder bridge over Mooni River at Gundabloui 48 km north of Collarenebri. The new structure is 128 m long and provides two traffic lanes and eliminates an open causeway.

TR68 over Darling River

The Department completed construction by contract of a three span steel box girder and reinforced concrete bridge over the Darling River at Menindee. The new structure is 118.4 m long and provides two traffic lanes and eliminates the use by road traffic of the railway bridge.

TR74 over Blicks River

The Department completed construction by contract of a four span prestressed concrete girder bridge over Blicks River near Dundurabbin 86 km south of Grafton. The new structure is 91.4 m long, provides two traffic lanes and replaces a 96 year old single lane timber truss bridge 69 m long.

TR89 over Backwater Cowal

Timbrebongie Shire Council completed construction by contract of a 17 span prestressed concrete plank bridge over Backwater Cowal 4.4 km south of Narromine. The new structure is 93.5 m long and provides two traffic lanes.

TR91 over Honeysuckle Creek

Imlay Shire Council completed construction by contract of a three span steel girder and reinforced concrete bridge over Honeysuckle Creek 25.4 km from SH1. The new structure is 64.0 m long and provides two traffic lanes and replaces a timber beam bridge 30 m long.

MR206 over Tucklan Creek

Coolah Shire Council completed construction by contract of a six span prestressed concrete plank bridge over Tucklan Creek 9.6 km west of Dunedoo. The new structure is 65.1 m long and provides two traffic lanes and eliminates a concrete causeway.

MR271 over Moruya River

Eurobodalla Shire Council completed construction by contract of an eight span prestressed concrete low level bridge over Moruya River 3.9 km west of Moruya. The 85.4 m long structure provides two traffic lanes and replaces a low level single lane timber beam bridge 86.3 m long washed away by floods in 1974.

MR315 - Pedestrian Bridge

The Department completed construction by contract of a seven span prestressed and reinforced concrete bridge over King Georges Road near South Hurstville Public School. The new structure is 69.8 m long and provides a single lane walkway.

MR318 over Main Southern Railway

The Department completed construction by contract of a three span prestressed concrete girder bridge over the railway at Marlborough Road, Homebush West. The new structure is 72.4 m long and provides two traffic lanes and one footway.

MR405 over Paroo River

The Department completed construction by contract of a nine span composite steel girder and reinforced concrete bridge over the Paroo River at Wanaaring. The new bridge is 109.7 m long and provides two traffic lanes and replaces a timber beam bridge 103 m long.

SR2084 over Railway, Seven Hills

Blacktown Municipal Council completed construction by contract of a four span prestressed concrete girder bridge over the railway at Seven Hills. The new structure is 83.2 m long and provides four traffic lanes and eliminates a level crossing.

CR5037 (Parramatta By-pass) over Belmore Street

The Department completed construction by contract of a single span reinforced and prestressed concrete bridge over Belmore Street Dundas. The new bridge is 29.3 m long and provides for six traffic lanes.

PRINCIPAL BRIDGEWORKS COMPLETED DURING THE YEAR BUT NOT OPENED TO TRAFFIC

F1 - Warringah Freeway at West Street

The Department completed construction by contract of a two span prestressed concrete girder bridge over the Warringah Freeway at West Street, North Sydney. The new structure is 58 m long and provides two traffic lanes and two footways.

F1 - Warringah Freeway over Brook Street

The Department completed construction by contract of twin single span prestressed concrete girder bridges over Brook Street, Naremburn. Each new structure is 27 m long and provides four traffic lanes.

F4 - Western Freeway over Haslams Creek

The Department completed construction by contract of a two span steel truss services bridge over Haslams Creek Stormwater Channel. The new structure is 68.3 m long and provides two traffic lanes.

F4 - Western Freeway - Pedestrian Bridge at Melton Street

The Department completed construction by its own forces of an 11 span prestressed concrete suspended girder (main spans) and prestressed concrete slab (approach slabs) pedestrian bridge over the Freeway at Melton Street, Auburn. The new structure is 117.9 m long and provides a single lane walkway.

F5 - Southern Freeway over Access Road to Herne Estate

The Department completed construction by contract of twin three span prestressed concrete plank bridges to carry loading ramps to and from the Southern Freeway over the access road from Gladstone Avenue to Herne Estate, Wollongong. The new structures are 30.6 m and 30.4 m long and each provides three traffic lanes.

SH2 - Hume Highway over Eastbound Unloading Ramp

The Department completed construction by contract of a single span prestressed concrete plank structure over Eastbound Unloading Ramp to Sheridan Street. Gundagai. The new structure is 75.4 m long and provides two traffic lanes.

SH2 - Hume Highway over Derringullen Creek

The Department completed construction by contract of a three span prestressed concrete girder bridge over Derringullen Creek, 6.6 km south of Yass. The new structure is 57.9 m long and provides two traffic lanes and will be for northbound traffic on a proposed section of dual carriageway.

SH2 - Hume Highway over Fish River

The Department completed construction by contract of a four span prestressed concrete girder bridge over the Fish River 45.1 km west of Goulburn. The new structure is 85.3 m long and provides two traffic lanes and replaces a timber beam bridge 75.2 m long.

SH16 - Bruxner Highway over Seereys Creek

Ashford Shire Council completed by contract the construction of a 12 span prestressed concrete plank bridge over Secreys Creek, 16.9 km west of Yetman. The new bridge is 73.2 m long and provides two traffic lanes.

SH16 - Bruxner Highway over Ottleys Creek

Yallaroi Shire Council completed construction by contract of a 10 span prestressed concrete plank bridge over Ottleys Creek 17.7 km west of Yetman. The new structure is 61 m long and provides two traffic lanes.

TR72 over Quipolly Creek

Tamarang Shire Council completed construction by contract of a five span prestressed concrete girder bridge over Quipolly Creek 14.7 km north of Quirindi. The new structure is 75 m long and provides two traffic lanes and replaces a timber beam bridge 23.8 m long.

TR75 over Hickeys Creek

Kempsey Shire Council completed construction by contract of a three span prestressed concrete girder bridge over Hickeys Creek 31.8 km west of Kempsey. The new structure is 64 m long and provides two traffic lanes and will replace a one lane timber bridge, 43.3 m long which is subject to flooding.

MR405 over Paroo Bywashes Nos. 1 and 2

The Department completed construction by contract of two composite steel girder and reinforced concrete bridges over the Paroo Bywashes Nos. 1 and 2 at Wanaaring and each having 5 spans. The new bridges are 61 m long and each provides two traffic lanes and replaces two timber beam bridges 62 m and 55 m long respectively.

CR5037 over Lake Parramatta Access Road

The Department completed construction by contract of a single span reinforced concrete bridge to carry the County Road over the Lake Parramatta access road. The new bridge is 13 m long and provides six traffic lanes.

PRINCIPAL BRIDGEWORKS IN PROGRESS AT THE BEGINNING OF THE YEAR BUT NOT COMPLETED

F3 - North Western Freeway over Darling Harbour Viaduct

The Department continued construction by its own forces of the first stage of a complex viaduct structure to carry the North Western Freeway from the City over Darling Harbour Goods Yard to Pyrmont. The whole complex will comprise 116 spans, mainly composite steel and concrete with some reinforced concrete and prestressed concrete. The Department commenced fabrication by contract during the year of a number of steel girders. The main structure will be 806.2 m long and will provide up to 11 traffic lanes with four freeway lanes at the western end. The first stage of construction will provide six traffic lanes.

F4 - Western Freeway over Haslams Creek Stormwater Channel

The Department continued construction by its own forces of a three span prestressed concrete girder bridge to carry eastbound freeway traffic over Haslams Creek Stormwater Channel. The new structure will be 69.5 m long and will provide two traffic lanes.

F5 - South Western Freeway at Minto Road

The Department continued construction by its own forces of a four span prestressed concrete bridge over the Freeway at Minto Road, Glenlee. The new bridge will be 80.1 m long and will provide two traffic lanes.

F6 - Southern Freeway over Mullet Creek

The Department continued construction by contract of twin 10 span prestressed concrete voided slab deck bridges over Mullet Creek at Kembla Grange, 91.4 km south of Sydney. Each new structure will be 250 m long and will provide six traffic lanes.

F6 - Southern Freeway over Northcliffe Drive

The Department continued construction by contract of twin three span prestressed concrete voided deck bridges over Northcliffe Drive at Berkeley. Each new structure will be 67.2 m long and will provide six traffic lanes.

SH2 - Hume Highway over Yass River at Yass

The Department continued construction by contract of a three span composite steel trough girder bridge over the Yass River (Hume Bridge) at Yass. The new structure will be 101.1 m long and will provide two traffic lanes and two footways and will replace a timber and steel bridge 86 m long.

SH2 — Hume Highway at Narelian Interchange (Northbound Carriageway)

The Department continued construction by its own forces of a three span prestressed concrete girder bridge for northbound traffic over MR178 at Narellan. The new structure will provide three traffic lanes.

SH8 - Barrier Highway over Darling River Flood Plain

The Department continued construction by contract of four prestressed concrete bridges over the Darling River Flood Plain at 1.6 km, 3.7 km, 5.9 km and 6.4 km east of Wilcannia, having five, four, eight and eight spans respectively. The new structures will be 30.5 m, 24.4 m, 48.8 m and 48.8 m long respectively, will provide two traffic lanes and will replace causeways.

SH17 - Newell Highway over Narrabri Creek

The Department continued construction by contract of a nine span prestressed concrete girder bridge over Narrabri Creek at Narrabri. The new structure will be 178.8 m long, will provide two traffic lanes and will replace a timber truss bridge 120 m long.

MR154 over Narellan Creek

Camden Municipal Council continued construction by contract of a four span prestressed concrete plank bridge over Narellan Creek, 1.6 km from SH2. The new structures will be 42.9 m long, will provide two traffic lanes and will replace an old timber bridge, 8.2 m long.

MR600 over Fernbank Creek

Hastings Shire Council continued construction by its own forces of a seven span prestressed concrete girder bridge over Fernbank Creek 8 km north of Port Macquarie. The new structure will be 75.5 m long, will provide two traffic lanes and will replace a timber beam bridge 18.3 m long.

CR5037 at Pennant Hills Road

The Department continued construction by its own forces of a single span steel girder and reinforced concrete bridge over the County Road at Pennant Hills Road near Burnside Homes, North Parramatta. The new structure will be 29.6 m long and will provide six traffic lanes.

PRINCIPAL BRIDGEWORKS COMMENCED DURING THE YEAR BUT NOT COMPLETED

F5 – South Western Freeway over Nepean River, Douglas Park

The Department commenced construction by contract of twin six span precast and post tensioned concrete box girder bridges over the Nepean River at Douglas Park. The new bridges are 236.5 m and 286 m long respectively and provide six traffic lanes.

F5 - South Western Freeway over Main Southern Railway

The Department commenced construction by its own forces of the foundations and piers for the twin single span prestressed concrete plank bridges over the Main Southern Railway at Yanderra. The new bridges will be 15.3 m long and will provide up to seven traffic lanes and will replace a brick arch bridge 28 m long. Completion of the bridges will be undertaken by contract to the Department.

F5 — South Western Freeway over Nepean River, Menangle

The Department commenced construction by contract of a twin four span prestressed concrete box girder bridge over the Nepean River near Menangle, 61.3 km south of Sydney. Each new structure will be 186 m long and will provide six lanes for traffic.

F5 - South Western Freeway at Moreton Park Road

The Department commenced construction by contract of a four span prestressed concrete voided slab bridge over the Freeway at Moreton Park Road, 63.9 km south of Sydney. The new structure will be 78 m long and will provide two traffic lanes and one footway.

F5 - South Western Freeway over Moreton Park Road

The Department commenced construction by its own forces of a four span prestressed concrete spine beam bridge over Moreton Park Road Deviation, 69.2 km south of Sydney. The new structure will be 97.6 m long and will provide two traffic lanes and one footway.

F6 - Southern Freeway at Kanahooka Road

The Department commenced construction by contract of a three span prestressed concrete voided slab bridge over the Freeway at Kanahooka Road at Dapto. The new structure will be 78.6 m long and will provide four traffic lanes.

SH7 - Mitchell Highway over Molong Creek

The Department commenced construction by contract of a four span steel girder and reinforced concrete bridge over Molong Creek 5.6 km south of Molong. The new structure will be 61 m long, will provide two traffic lanes and will replace a timber beam bridge 40.5 m long.

TR77 over Merrygoen Creek

Coolah Shire Council commenced construction by contract of a three span steel beam and reinforced concrete bridge over Merrygoen Creek at Mendooran. The new structure will be 64.6 m long, will provide two traffic lanes and will replace a timber beam bridge 40 m long.

MR172 - Viaduct between Vernon and Adelaide Streets

The Department commenced construction of a 26 span prestressed concrete viaduct at Bondi Junction. This work is being undertaken by both contract and direct control. The new structure will be 456.6 m long and will provide six traffic lanes.

MR321 over Murrumbidgee River

The Department commenced construction by contract of a nine span prestressed concrete girder bridge over the Murrumbidgee River at Darlington Point. The new structure will be 171.5 m long, will provide two lanes and one footway, and will replace a steel truss span with a lift span and timber beam approach span bridge 206 m long.

MR321 over Flood Channel to Murrumbidgee River

The Department commenced construction by contract of a seven span prestressed concrete girder bridge over the flood channel to the Murrumbidgee River at Darlington Point. The new structure will be 96 m long and will provide two traffic lanes and a footway, and will replace a timber beam bridge 96 m long.

MR373 over Lane Cove Road (MR162)

The Department commenced construction by contract of a three span prestressed concrete girder bridge over Lane Cove Road (MR162) at Epping Road at Ryde. The new structure will be 101.8 m long and will provide six lanes.

MR609 over Railway at Horsley Drive

The Department commenced widening by contract of the existing five span prestressed concrete girder bridge over the railway line in Horsley Drive, Fairfield. The structure when widened will provide five traffic lanes and one footway.

MR617 over Main Southern Sewer

The Department commenced construction by its own forces of a single span rigid frame structure over the Southern Suburbs Sewer in General Holmes Drive, Botany. This section of the bridgework will be 27.6 m long and will complement the northern section of the structure which will be 241.7 m long and will be constructed by contract to the Department.

SR2081 over Main Northern Railway

The Department commenced construction by contract of a three span reinforced and prestressed concrete bridge over the Main Northern Railway Line at Eastwood. The new bridge will be 42.7 m long and will provide for six traffic lanes, and will replace an existing brick and steel bridge 24.0 m long.

CR5037 (Parramatta By-pass) over North Rocks Road

The Department commenced construction by its own forces of a three span reinforced and prestressed concrete bridge over North Rocks Road. The new structure will be 35.5 m long and will provide six traffic lanes.

BRIDGES COMPLETED AND OPENED TO TRAFFIC ON UNCLASSIFIED URBAN AND RURAL LOCAL ROADS

Bridgeworks carried out by Council during 1976-77 from funds available under the Roads Grants Act, 1974:

- (a) New structures where no previous structure existed - 10,
- (b) Replacement structures 37.

MAINTENANCE OF BRIDGES AND FERRIES

During the year the following major maintenance and repair work to bridges and ferries were carried out.

FREEWAYS

F3 — Sydney-Newcastle Freeway over Hawkesbury River at Peats Ferry

This bridge is 615 m long and has 12 steel girder spans. Repairs to joints, patch painting and works associated with fire prevention inside the steel box girders were completed.

STATE HIGHWAYS

SH1 - Princes Highway over Georges River at Tom Uglys Point

This bridge is 499 m long and has six steel truss spans and three 27 m steel plate girder spans. Painting of the steel girder spans was completed.

SH1 - Princes Highway over Clyde River at Batemans Bay

This bridge is 307 m long and has two concrete slab spans, four steel girder spans, five steel truss spans and one steel truss lift span. Repainting of steelwork by Departmental contract was completed.

SH1 - Princes Highway over Tuross River at Bodalla

This bridge is 192 m long and has four steel beam spans and four steel truss spans. Repainting of steelwork by Departmental contract was completed.

SH2 — Hume Highway — Prince Alfred Bridge over Murrumbidgee River at Gundagai

This bridge is 927 m long and has 78 timber beam spans and three 31 m iron truss spans. Repairs to sub-structure, deck and truss spans which are regularly required each year were continued and truss repainting was commenced.

The new bridge over the Murrumbidgee River on a deviation of SH2 at Gundagai was opened to traffic on 25 March 1977.

SH5 - Great Western Highway over Knapsack Gully at Emu Plains

This bridge is 118 m long and has seven sandstone arch spans. Restoration of the sandstone surface which was commenced in 1975-76 was completed.

SH9 — New England Highway — Long Bridge over Flood Plain at Maitland

This bridge is 267 m long and has 25 steel beam spans. Repainting of steelwork was commenced and will be completed in 1977-78.

SH9 — New England Highway — Dunolly Bridge over Hunter River at Singleton

This bridge is 196 m long and has two steel truss spans, one steel beam span and eight timber beam spans. Structural timber repairs were carried out.

SH9 - New England Highway over Hunter River at Aberdeen

This bridge is 162 m long and has three 47 m lattice steel truss spans and two steel girder spans. Repainting by Departmental contract which was commenced in 1975-76 was completed.

SH9 — New England Highway over Railway Line at Aberdeen

This bridge is 25 m long and has three steel girder spans. Two temporary Bailey bridges were erected by the Department alongside the bridge to maintain the traffic facility until repairs to the deck are completed. Repairs to the deck of the existing bridge will be carried out during 1977-78.

SH9 - New England Highway over the MacDonald River at Bendemeer

This bridge is 92 m long and has one 31.7 m timber truss span and six timber beam spans. Repairs to and repainting of the truss span was commenced.

SH10 - Pacific Highway over Entrance to Lake Macquarie at Swansea

This bridge is 174 m long and has one steel lift span and 12 steel beam spans. The centre locks, gates and the electrical control box operating the lift span were repaired.

SH10 - Pacific Highway over Wollomba River at Nabiac

This bridge is 204 m long and has two 37 m steel truss spans and seven steel girder spans. Painting by contract which commenced in 1975-76 was completed and general repairs by Departmental forces were carried out.

SH10 — Pacific Highway over Dawson River at Cundletown

This bridge is 110 m long and has one 37 m steel truss span and five reinforced concrete beam spans. Painting by contract and general repairs by Departmental forces were completed.

SH10 - Pacific Highway over Lansdowne River at Coopernook

This bridge is 102 m long including two 37 m steel truss spans and a 20 m bascule lift span. Painting by contract and general repairs by Departmental forces were completed.

SH10 – Pacific Highway over Nambucca River at Macksville

This bridge is 218 m long and has two 43 m steel truss spans and seven steel girder spans. General repairs and repainting which were commenced in 1975-76 were completed.

SH10 - Pacific Highway - Martin Bridge over Manning River at Taree

This bridge is 475 m long and has eleven 37 m long truss spans, a 19 m long former lift span and three steel girder spans. General repairs by Departmental forces were commenced in preparation for repainting by contract in 1977-78.

SH10 - Pacific Highway over Clarence River at Harwood

This bridge is 888 m long and has one 38 m lift span, six 43 m steel truss spans and 27 steel girder spans. Repainting of the steelwork by Departmental contract was continued.

SH10 - Pacific Highway over Clarence River (North Arm) at Mororo

This bridge is 198 m long and has two 37 m steel truss spans, one 17 m steel girder lift span and 10 steel girder spans. Repairs and painting of steelwork which were commenced in 1975-76, were continued.

SH10 - Pacific Highway over Richmond River at Wardell

This bridge is 225 m long and has seven concrete beam spans and one steel truss span. Repainting of steelwork by Departmental contract was commenced.

SH10 - Pacific Highway over Tweed River at Barneys

This bridge is 191 m long and has one 19 m lift span, two 43 m steel truss spans and eight steel girder spans. Repainting of steelwork by Departmental contract was commenced.

SH13 - Lennox Bridge over Parramatta River at Parramatta

This bridge is 28 m long being a stone arch widened in reinforced concrete. The deteriorated paintwork on the concrete handrails has been removed and the rails have been restored to their natural condition.

SH11 - Oxley Highway over Castlereagh River at Coonabarabran

This bridge is 61 m long and has seven timber girder spans. Repairs to footway, piers and deck which were commenced in 1975-76 were completed.

SH12 - Gwydir Highway over Mehi River 126.97 km west of Moree

This bridge is 38.7 m long and has five timber beam spans. Replacement of sheeting, decking and capwales was carried out.

SH14 - Sturt Highway over Gum Creek 22.7 km and 23.3 km east of Hay

These bridges are both 19.2 m long with two timber beam spans and tommed mid span. Replacement of timber decking, sheeting, kerbs and painting of superstructure were completed.

SH14 – Sturt Highway over Murray River at Mildura

This bridge is 250 m long and has a 20 m lift span, four 37 m steel truss spans and 11 steel beam spans. Replacement of timber decking and longitudinal sheeting of the approach spans was completed.

SH16 - Bruxner Highway over Plumbago Creek at Drake

This bridge is 37.5 m long and has four timber beam spans. Replacement of decking, sheeting and one girder was commenced.

SH16 - Bruxner Highway over Sandy Creek 32.7 km east of Tenterfield

This bridge is 82 m long, and has one 27 m timber truss span and six timber beam spans. Replacement of girders, decking and headstocks was commenced.

SH16 - Bruxner Highway over Snake Creek 22.2 km east of Tenterfield

This bridge is 28.35 m long and has three timber beam spans. Replacement of decking, sheeting, piles and abutment was commenced.

SH16 – Bruxner Highway over Swamp Oak Creek 12.9 km east of Tenterfield

This bridge is 32 m long and has four timber beam spans. Replacement of decking, sheeting and repairs to abutments and handrails was completed.

SH16 – Bruxner Highway over Barney Downs Creek 9.7 km east of Tenterfield

This bridge is 37.5 m long and has four timber beam spans. Replacement of sheeting and decking was carried out.

SH16 - Bruxner Highway over Reedy Creek 65.1 km west of Tenterfield

This bridge is 54.25 m long and has five timber beam spans. Replacement of decking, sheeting, five girders and 30 m of kerb was carried out.

SH17 - Newell Highway over Murrumbidgee River at Narrandera

This bridge is 101 m long and has two 9 m timber beam spans and three 27 m timber truss spans. Replacement of bottom chords, cross girders and one truss principal and repairs to decking and handrails were carried out.

SH18 ~ Castlereagh Highway over Pagan Creek 6 km north of Walgett

This bridge is 155 m long and has 20 timber beam spans. Major structural repairs to decking, longitudinal sheeting, girders and substructure which were commenced in 1975-76 were continued.

SH19 — Monaro Highway over Bombala River at Bibbenluke

This bridge is 88 m long and has three 11 m timber beam spans and two 27 m timber truss spans. Major repairs to girders, truss members and decking were carried out.

SH21 — Cobb Highway over Flood Channel in the nothern approach to the bridge over the Murray River at Moama

This bridge is 124 m long and has 27 timber beam spans. Repairs to decking and sheeting were completed.

SH22 — Silver City Highway over Tuckers Creek at Curlwaa

This timber bridge is 88.7 m long and has twelve 7 m timber beam spans. Replacement of piles, girders, capwales and decking was carried out.

SH22 - Silver City Highway - Abbotsford Bridge over Murray River at Curlwaa

This bridge is 235 m long and has a 20 m lift span, four 37 m steel truss spans and eight steel beam spans. Patch painting of steelwork, handrails and kerb and the replacement of the timber decking of the lift span were carried out.

TRUNK ROADS

TR57 - over Lachlan River at Condobolin

This bridge is 55 m long and has three timber beam spans and one truss span. Following the damage of the truss span and one approach span, a temporary Bailey bridge of 37 m span was erected to maintain the traffic facility.

TR63 - over Namoi River at Manilla

This bridge is 306 m long and has five 38.4 m main steel truss spans and six 18.6 m steel truss spans. Repainting of the steel truss spans by Departmental contract was carried out.

TR63 - over Myall Creek, 8.7 km north of Bingara

This bridge is 145 m long and has three 28 m timber truss spans and six timber beam spans. Replacement of two girders and truss and pier members was completed.

TR67 - over Murray River at Swan Hill

This bridge is 117 m long and has four timber beam spans, two 28 m timber truss spans and a 19 m steel truss lift span. Replacement of sections of the top and bottom chords and repairs to cross girders, girders, piles and kerbs and the painting of the superstructure, commenced in 1975-76, were completed.

TR75 - over Five Day Creek at Comara

This bridge is 72 m long and has six timber beam spans and one 23 m timber truss span. Extensive structural repairs were commenced.

TR86 — Oedings Approach Bridge No. 3 to the Murray River at Corowa

This bridge is 67 m long and has 11 timber beam spans. Replacement of two piles and one headstock was carried out.

TR94 - over Wakool River Flood Channel at Gee Gee

This bridge is 113.8 m long and has 15 timber beam spans. Replacement of a number of girders, splicing of a number of piles and painting of the superstructure were carried out.

MAIN ROADS

MR102 over Hunter River at Morpeth

This bridge is 282 m long and has three timber truss spans and 17 timber beam spans. Major structural timber repairs other than truss repairs, commenced in 1975-76, were completed.

MR105 - over Pages River at Gundy

This bridge is 87.5 m long, and has one 31.7 m timber truss span and five timber girder spans. Replacement of girders and repairs to the truss were commenced.

MR111 - Forster-Tuncurry Bridge over Wollomba River

This bridge is 609 m long and has 47 prestressed concrete beam spans and one steel beam span. Repainting of handrailing, commenced in 1975-76, was completed.

MR127 - over Coghill Creek 27 km south of Wee Waa

This bridge is 110.9 m long and has 12 timber girder spans. Extensive repairs to the deck were carried out by Namoi Shire Council.

MR127 — Dangar Bridge over Barwon River 5.5 km west of Walgett

This bridge is 119 m long and has seven timber beam spans and two timber truss spans. Replacement of decking, longitudinal sheeting, girders and substructure was carried out.

MR137 — over Severn River at News Crossing 65.5 km north of Inverell

This is a low level bridge, 83 m long, and has eight timber beam spans. Replacement of all decking, sheeting and kerbs, commenced in 1975-76, was completed.

MR165 - over Iron Cove at Drummoyne

This bridge is 468 m long and has four 19 m steel girder spans and seven 52 m steel truss spans. Replacement of asphaltic concrete running surface and treatment of the steel decking were carried out on the western side traffic

MR181 - over McDonald River at St. Albans

This bridge is 116 m long and has four timber beam spans and two timber truss spans. Replacement of decking, sheeting, seven top chords and stringers was carried out.

MR197 — Approach Bridge No. 1 to the Murray River at Howlong

This bridge is 94 m long and has nine timber beam spans. Replacement of concrete and timber piles, girders, corbels and decking and the construction of a new span, commenced in 1975-76, were completed.

MR197 — Approach Bridge No. 2 to the Murray River at Howlong

This bridge is 54 m long and has seven timber beam spans. Replacement of sheeting, girders and two piles was carried out.

MR197 — Approach Bridge No. 4 to the Murray River at Howlong

This bridge is 26 m long and has three timber beam spans. Erection of a new span on the Victorian side was carried out.

MR198 - over Kinchela Creek at Kinchela

This bridge is 90 m long and has seven timber beam spans and one 21 m timber truss span. Major structural repairs were completed.

MR199 – Captain Cook Bridge over Georges River at Taren Point

This bridge is 507 m long and has seven box girder spans. Repairs to the southern abutment, commenced in 1975-76. were completed.

MR200 - Ryde Bridge over Parramatta River at Uhrs Point

This bridge is 346 m long with three 43 m steel truss spans and eight steel girder spans. The removal of the lift span counterweights, commenced in 1975-76, was completed during the year. The lift span is now fixed in the closed position.

MR208 - over Hunter River at Muswellbrook

This bridge is 162 m long and has two steel lattice girder spans and nine timber beam spans. Major structural timber repairs, commenced in 1975-76, were completed.

MR209 – Lower Wybong Bridge over Wybong Creek at Hollvdeen

This bridge is 89 m long and has two timber truss spans and four timber beam spans. Repairs to timber trusses were carried out.

MR222 - over the Wakool River at Tooleybuc

This bridge is 89.4 m long and has two timber truss spans, a lift span and three timber beam spans. Replacement of top and bottom chords of trusses, cross girder and sheeting was carried out.

MR226 - over Murray River at Cobram

This bridge is 184.8 m long and has one steel lift span, two DeBurgh type trusses and 10 timber beam spans. Replacement of a top chord in truss span, a girder and some capwales was carried out.

MR233 — Yamble Bridge over Cudgegong River, 24 km west of Gulgong

This bridge is 118 m long and has one timber truss span and seven timber beam spans. Replacement of decking, girders and corbel was carried out.

MR244 - over the Murrumbidgee River at Carrathool

This bridge is 115.6 m long and has a bascule and lift span, two timber truss spans and four timber beam spans. Replacement of the top chord of the trusses, stringers, cross girders, piles, decking, sheeting, and painting of steel cylinders and timber superstructure were carried out.

MR278 - over Murrumbidgee River at Taemas

This bridge is 214 m long and has two 14 m steel beam spans and four 46 m steel truss spans. Repainting of the superstructure was carried out.

MR301 - Dunmore Bridge over Paterson River at Woodville

This bridge is 130 m long and has three timber truss spans, one steel lift span (not in operation) and one timber beam span. Repairs to structural timbers were commenced and will be completed in 1977-78.

MR321 - over Murrumbidgee River at Darlington Point

This bridge is 206 m long and has 15 timber beam spans, one 28 m timber truss span, one 21 m steel bascule span and a 20 m steel lift span. Replacement of piles, girders, corbels, cross girders, decking and sheeting, commenced in 1975-76, was continued.

MR367 - over Barwon River at Mungindi

This bridge is 62 m long and has one 28 m timber truss span and four timber beam spans. Replacement of sheeting, decking and truss and footway members, commenced in 1975-76, was completed.

MR404 — Bridge No. 1 over Cuttaburra Creek, 136 km north west of Bourke

This bridge is 78 m long and has 10 timber beam spans on a steel substructure. Replacement of decking, longitudinal sheeting and girders was carried out.

MR503 - over Colo River, 24 km north of Windsor

This low level structure is 75 m long with seven timber beam spans. Replacement of decking and sheeting was carried out.

MR572 — White Bridge over Macquarie River at Narromine

This bridge is 161 m long and has 11 timber beam spans and two truss spans. Replacement of decking, sheeting, kerbs, handrails, piles, girders and pile braces was commenced.

MR599 — Northbridge Suspension Bridge over Long Bay at Northbridge

This bridge is 152 m long and has two 21 m concrete beam spans and one 111 m concrete arch span. Repairs to the stone parapet were commenced.

DEVELOPMENTAL ROAD

DR1165 — Minore Bridge over Macquarie River at Rawsonville

This bridge is 111 m long and has six timber beam spans and two truss spans. Replacement of decking, sheeting, kerbs, piles, girders and handrailing and repainting of the trusses, kerbs and handrailing were carried out.

SECONDARY ROAD

SR2034 - over Woronora River at Woronora

This bridge is 86 m long and has eight 11 m timber beam spans. Replacement of a girder, four corbels and four supplementary steel piles was carried out.

UNCLASSIFIED ROADS

Unclassified Road - Ash Island Bridge over Hunter River at Hexham

This bridge is 171 m long and has 13 steel beam spans. Repainting of steelwork was commenced and will be completed in 1977-78.

Unclassified Road – Luskintyre Bridge over Hunter River, 3 km west of Lochinvar

This bridge is 279 m long and has two steel truss spans and 15 timber beam spans. Structural timber repairs other than deck repairs on steel truss spans, commenced in 1975-76, were completed and the steelwork was repainted by Departmental contract.

Unclassified Road — over Gwydir River at Pallamallawa on the Pallamallawa-Biniguy Road

This bridge is 93.2 m long and has two 28 m timber truss spans and four timber beam spans. Replacement of three cross girders, truss chords, 12 piles and pedestrian refuge was commenced.

Unclassified Road — over Mann River, 48.3 km east of Glen Innes on the Old Glen Innes-Grafton Road

This is a low level bridge, 64.9 m long, and has seven timber beam spans. Replacement of the decking and the majority of the sheeting was carried out.

Unclassified Road — Fladbury Bridge over Severn River, 29 km north of Glen Innes on the Glen Innes to Emmaville Road

This is a low level bridge, 130.3 m long, and has 14 timber beam spans. Replacement of decking, sheeting, kerbs and corbels was commenced.

Unclassified Road - over Goobang Creek at Condobolin

This bridge is 62 m long and has four timber beam spans and one truss span. Replacement of girders, wales, piles, sheeting and decking was commenced.

Unclassified Road — Pyrmont Bridge over Darling Harbour at Pyrmont

This bridge is 370 m long and has twelve 25 m timber spans and two 34 m steel truss swing spans. Replacement of timber stringers and truss members and four timber piles, commenced in 1975-76, was completed.

FERRIES

Ferry over Richmond River at Woodburn - MR147

This vessel is a 12 car steel hull ferry. Strengthening of the deck of the ferry was carried out so that the ferry service could carry the tri-axle semi-trailers used for the haulage of the cane harvest.

Ferry over the Clarence River at Bluff Point - MR152

This ferry is an eight car steel hull ferry. Replacement of flaps on the ferry was carried out so that the ferry service could carry the tri-axle semi-trailers used for the haulage of the cane harvest.

Ferry over Hawkesbury River at Sackville - MR182

This vessel is a 12 car steel hull ferry. A major overhaul of this vessel was carried out by the Department's own forces.

Ferry over Murray River at Wymah - MR369

This vessel is a two car timber hull ferry. A major hull overhaul was carried out by the Department's own forces.

TRAFFIC ENGINEERING MEDIAN STRIPS

The location and lengths of divided carriageways constructed on Main Roads are listed below.

			Length in km	
Road No.	Location	Less than 1.5 m in width	1.5 m to 3 m in width	3 m and greater in width
F5	South Western Freeway - Yanderra to Alpine, 102.08 km to 115.52 km from Sydney			13.44
SH2 SH2	Hume Highway, 0.85 km to 1.35 km south of Goulburn Hume Highway, 8.99 km to 10.33 km south of Yass	0.50		1.34
SH2	Hume Highway, southern approach to Gundagai Bridge, 1.24 km to 2.30 km south of Gundagai			1.06
SH10	Pacific Highway from Macquarie Street to Oxford Street, Gateshead	•		0.70
SH10	Pacific Highway between Beeton Parade (south) and Railway Parade, Taree			0.29
TR95	Mt. Ousley Road, 78.80 km to 79.80 km from Sydney		1.00	
MR162	Mona Vale Road between Highlands Avenue and Cowan Road			0.67
MR174	Pittwater Road between Darley Street and Mona Vale Road			0.45
MR183	Gardeners Road, Tunstall Avenue to Isaac Smith Street			0.6
MR190	Joseph Street from Lewis Street to Amy Street			0.21
MR328	Warringah Road between Daines Parade and Pittwater Road			1.12
MR336	The entrance to Gosford Road near Bateau Bay Road			0.34
MR344	Wentworth Avenue, Southern Cross Drive to Bay Street	0.60		
SR2084	Seven Hills Road approaches to Seven Hills overbridge		0.37	0.08

SUMMARY

	Median less than 1.5 m in width	Length in km 1.5 m but less than 3.0 m in width	3.0 m and greater in width
Total constructed in 1976-77	1.1	1.4	19.3
Total constructed in 1975-76	1.4	0.7	39.8
Totals as at 30.6.77	122.0	125.0	342.7
Totals as at 30.6.76	120.9	123.6	323.4

CHANNELISATION OF INTERSECTIONS

Channelisa	tion was completed at 42 intersections during	SH5	Great Western Highway and Reservior
the year while	e 30 intersections were reconstructed and im-	01.0	Road, Prospect.
	is in progress at a further 19 intersections	SH5	Great Western Highway and Ponds Road,
and designs h	ave been completed for 26 channelised inter-	_	Prospect.
sections.		SH7	Mitchell Highway and MR347, Trangie.
	ntersections which have been channelised in	SH9	High Street and Parallel Street, Maitland.
permanent m	aterials are listed below.	SH10	Pacific Highway and Sydney Street,
F5	South Western Freeway and Hume High-		Gateshead.
	way deviation at Yanderra.	SH10	Byron Street and TR65, Bangalow.
F5	South Western Freeway and Hume High-	SH14	Edward Street and Lake Albert Road,
	way at Aylmerton.		Wagga Wagga.
SH2	Hume Highway, The Boulevarde and	SH21	Cobb Highway and Shaw Street, Moama.
	Meredith Street, Bankstown.	SH23	Hugo Avenue and Rankin Drive, Bir-
SH2	Hume Highway and Cowpasture Road, Lep-	•	mingham Gardens.
	pington (painted medians).	TR78	Olympic Way and Oura Road, North Wagga
SH2	Hume Highway and Bringelly Road, Lep-		Wagga.
	pington.	MR158	Marsden Road and MR574 (Steward Street),
SH2	Sydney Road and Long Street, North Goul-		Eastwood.
	burn.	MR160	Old Northern Road, Crane Road and Castle
SH2	Clinton and Auburn Streets, Goulburn.		Street, Castle Hill.
SH2	New Deviation and Middle Street, South	MR164 &	Pittwater Road and Barrenjoey Road, Mona
	Gundagai.	MR174	Vale.
SH2	New Deviation and South Street, South	MR168	Forest Road at Stoney Creek Road,
	Gundagai.		Peakhurst.

MR190	Rookwood Road and Boardman Street, Chullora	CLIMBIN	NG LANES
MR192	Dennes Street, Moon Street and Farquhar Street, Wingham.	been constru	er and location of climbing lanes which have cted for slow moving vehicles on hills are
MR217	Five Islands Road and The Esplanade, Boolaroo.	listed below. SH1	Princes Highway, southbound 43 km south
MR223	Lambton Road, Curley Road and Brown Road, Broadmeadow.	SH1	of Nowra. Princes Highway, northbound 44.5 km
MR309	Rydalmere Avenue and MR574 (Kissing Point Road), Dundas.	SH9	south of Nowra. New England Highway at Black Hill, 3.5 km
MR397	Wakehurst Parkway and Frenchs Forest Road.	SH9	south of Muswellbrook, southbound. New England Highway, approaches to Rose
MR515	Elizabeth Drive and MR608 (Copeland Street), Liverpool.		Valley Creek, 35.5 km to 36.2 km north of Tamworth.
MR526	Racecourse Road and Barretts Lane Road, Orange.	SH9	New England Highway, approaches to Carlisle Gully, 62.5 km to 64.75 km north of
SR2019	Clark Road at Kurraba Road and Rawson Street, Neutral Bay.	SH10	Tamworth. Pacific Highway at Wallarah Hill, 35.0 km
SR2027	Morwick Street, Railway Parade and Wentworth Road, Burwood.	SH16	to 36.0 km north of Gosford, northbound. Bruxner Highway, 42.5 km to 43.1 km west
SR2046	Lilyfield Road and James Street at SR2056 - Mary Street and Perry Street,	SH19	of Ballina. Monaro Highway, 82.25 km to 88.25 km
SR2057	Leichhardt. Church Street and Railway Overbridge ap-	SH19	south of Canberra. Monaro Highway, 85.4 km to 86.4 km south
SR2068	proach, Lidcombe. The River Road, Marco Avenue and Sphinx Avenue, Revesby.	TR84 MR177	of Canberra. 14.5 km east of Murrumburrah. Appin Road between Appin and Bulli Pass,
SR2070	Northwood Road and River Road West at Kenneth Street and Longueville Road	MR512	eastbound. Heathcote Road, Woronora River to Princes Highway.
SR2084	(Blaxlands Cnr), Lane Cove. Seven Hills Road and Artillery Crescent, Seven Hills.	MR512	Heathcote Road, approach to New Illawarra Road.
UNCL.	Henley Marine Drive, Arthur Street and Timbrell Drive, Rodd Point.	SUMMARY	
UNCL.	Bonds Road, Romilly Street and Talbot Street, Peakhurst.	Total constru	icted, 1976-77
UNCL.	Kendall Avenue and Uriara Street, Quean- beyan.	Total as at 30 Total as at 30	
UNCL.	Epsom Road, Rothschild Avenue and Joynton Avenue, Waterloo.		

BUS BAYS

The number of bus bays, and their locations, which have been provided on Main Roads are listed below. SH₅

Great Western Highway at Hazelbrook School, Hazelbrook. 20.0 km, 23.0 km, 36.1 km, 36.9 km, 47.9 km, SH10 49.6 km, 51.1 km, 54.6 km, 55.5 km, 61.1 km,

70.3 km, 73.3 km, 73.9 km, 75.4 km, 76.9 km and 79.2 km north of Coffs Harbour, Ulmarra.

SH16 28.8 km, 29.7 km and 29.9 km west of Ballina.

Brewarrina Road, east of Tarcoon Street, TR68 Bourke.

TR74 103.5 km from Grafton.

The Esplanade near Albert Street, Speers MR325

Cabramatta Road at High Street, at Water MR534

Street and at Harrington Street. Blakey Street, south of SH8, Cobar.

SUMMARY

UNCL.

Total constructed, 19	976-	77		•-	 	 	 28
Total constructed, 19	975-	76			 	 	 10
Total as as 30.6.77					 	 	 156
Total as at 30.6.76			,.		 ٠	 	 128

TRAFFIC SIGNALS

The number of Traffic Signal Installations completed and their locations are listed below. (Notations — V for vehicle actuated and P for pedestrian actuated, C for constructed, R for reconstructed and RM for removal from services.)

LOCATION AND DATE SIGNALS PUT INTO SERVICE

	ALE SIGNALS PUT INTO SERVICE	7 0.44
Road No.	Location Type	Date
F1 & SR2093	Brook Street and F1 on-loading ramp V,C	27.5.77
F6 & F8	F6 and F8 Wollongong By-pass Road, Gwynneville V,C	1.11.76
SH1 & MR227	Princes Highway and The Kingsway, Kirrawee	28.1.77
SH1	Princes Highway and Old Princes Highway, Engadine V,C	11.3.77
SH1	Princes Highway, Smith and Union Streets, Tempe V,C	5.4.77
SH1	Lysaght Street and Princes Highway, Fairy Meadow V.C	21.2.77
SH1	Elliotts Road and Princes Highway, Fairy Meadow V,C	14.3.77
SH1	Daisy Street and Princes Highway, Fairy Meadow V.C	17.3.77
SH1 & MR513	Mt. Ousley Road and Princes Highway, Fairy Meadow V,C	11.3.77
SH2	Hume Highway and Holden Street, Ashfield V,C	11.11.76
SH2 & SR2065	Hume Highway and Victoria Street, Ashfield	11.11.76
SH2	Hume Highway, Weldon Street and Claremont Road, Burwood V,C	6.8.76
SH2	Hume Highway and Wallis Avenue, Strathfield V,C	25.2.77
SH2	Hume Highway, P.T.C. Workshop	20.2.77
3112	South-West Waterloo Road, Chullora	10.12.76
SH2 & SR2090	Hume Highway and Boronia Road, Greenacre	7.10.76
SH2	Hume Highway, Jacob Street and Beresford Avenue, Bankstown V.C	13.9.76
SH2	Hume Highway, Meredith Street and The Boulevarde, Bankstown V,C	9.8.76
SH2	Hume Highway and Miller Road, Bass Hill V,C	12.10.76
SH2	Hume Highway and Mannix Street, Liverpool V,C	20.6.77
SH2	Hume Highway and Bigge Street, Liverpool V,C	20.6.77
SH2	Hume Highway, Reilly Street and Congressional Avenue, Liverpool V.C	14.7.76
SH2	Auburn Street and Clinton Street, Goulburn V,C	23.7.76
SH5	Great Western Highway and Toongabbie Road, Prospect V,C	16.6.77
SH10	Pacific Highway and Berry Street, North Sydney	15.11.76
SH10	Pacific Highway and Railway Street, Chatswood V,C	24.2.77
SH10	Pacific Highway, William Street, and Wyvern Avenue, Chatswood V.C	16.11.76
SH10	Pacific Highway, Grosvenor Road and Burleigh Street, Lindfield V.C	16.9 <i>.</i> 76
SH10	Pacific Highway and Marian Street, and Buckingham Street, Killara V.C	2.12.76
SH10	Pacific Highway and Ashley Street, Hornsby V,C	6.4.77
SH10	Mann Street, Erina Street East, Gosford	26.10.76
SH10	Mann Street and William Street Pedestrian Plaza, Gosford P.C	26.10.76
SH10	Pacific Highway and Sydney Street, Gateshead	6.4.77
SH10	Hunter Street and Stewart Avenue, Newcastle West V,C	22.6.77
SH10	Maitland Road, Carrington and Silsoe Streets, Mayfield V,C	27.6.77
SH13	Pennant Hills Road and Normanhurst Road, Normanhurst V,C	27.6.77
SH13 & SR2035	Pennant Hills Road and Boundary Road, Pennant Hills V,C	17.11.76
SH13 & MR139	Pennant Hills Road and Beecroft Road East, Beecroft V,C	5.5.77
SH13 & MR156	Pennant Hills Road and Castle Hill Road, Pennant Hills V,C	8.3.77
SH13	Pennant Hills Road and Jenkins Road, Carlingford V,C	14.2.77
SH13	Pennant Hills Road and Adderton Road, Carlingford V,C	15.2.77
SH13 & CR5037	Pennant Hills Road and North Parramatta By-Pass, Ramp 1 V,C	6.6.77
SH13 & CK3037		
	Woodville Road and Orchardleigh Street, Guildford V,C	31.8.76
SH14	Lake Albert Road, Edward and Tarcutta Streets, Wagga Wagga V,C	8.12.76
SH23 & MR605	Rankin Drive, Moore Street and Hugo Avenue, Birmingham Gardens V.C.	4.4.77
TR82	Brisbane and Broadmeadow Roads, Broadmeadow V,C	21.7.76
MR139	Blaxland Road and Lovell Road, Eastwood V,C	1.4.77
MR159	Pittwater Road at Collingwood Street, Manly P,C	9.5.77
MR160	Old Northern Road, Castle Street, and Crane Road, Castle Hill V,C	20.9.76
MR164	Miller Street and McLaren Street, North Sydney V.C	18.8.76
MR164	Miller and Ridge Streets, North Sydney V,C	31.3.77
MR164	Military Road and Cowles Road, Spit Junction V,C	20.10.76
MR164	Condamine Street and Balgowlah Road, Balgowlah V,C	28.3.77
MR164 & MR159	Condamine Street and Old Pittwater Road, North Manly V,C	24.1.77
MR164	Pittwater Road and South Creek Road, Dee Why V,C	23.9.76
MR164	Pittwater Road and Ocean Grove, Collaroy V,C	30.11.76
MR164	Pittwater Road and McTier Street, Narrabeen V,C	25.5.77
MR164	Pittwater Road and Garden Street, North Narrabeen V,C	11.10.76
MR164 & MR162	Pittwater Road and Mona Vale Road, Mona Vale V,C	1.10.76
MR164 & MR174	Barrenjoey Road and Pittwater Road, Mona Vale V,C	11.10.76
MR164	Barrenjoey Road, Park Street and Golf Avenue, Mona Vale V,C	16.12.76
MR165	Victoria Road and Crown Street, Henley V,C	21.4.77
MR167	New Canterbury Road and Duntroon Street, Hurlstone Park V,C	4.1.77
MR167	Canterbury Road and Wonga Street, Canterbury V,C	20.9.76
MR168	Forest Road and Croydon Road, Hurstville V,C	16.12.76
MR168 & SR2041	Forest Road and Stoney Creek Road, Riverwood V,C	7.6.77

LOCATION AND DATE SIGNALS PUT INTO SERVICE - continued

Road No.	Location	Type	Date
MR170	Botany and Epsom Roads, Zetland	V,C	29.3.77
MR170	Botany Road and Collins Street, Beaconsfield		13.5.77
MR170	Botany Road and Harcourt Parade, Rosebery		25.8.76
MR170	Botany Road and Banksia Street, Botany		12.10.76
MR171	Anzac Parade and High Street, Kensington		5.8.76
MR171	Anzac Parade and Barker Street, Kingsford		25.11.76
MR171	Anzac Parade, north of Rainbow Street, Kingsford		19.1.77
MR171 & MR317	Bunnerong Road and Fitzgerald Avenue, Pagewood		1.6.77
MR183	Gardeners Road east of Doncaster Avenue, Kingsford	v,c	13.5.77
MR184	Windsor Road, Junction Road and Linton Street, Baulkham Hills		11.1.77
MR184	Church Street and Barney Street, Parramatta		19.7.76
MR227	The Kingsway, Gymea Bay Road, Milburn Avenue, Gymea		23.2.77
MR326	Turton and Georgetown Roads, Georgetown	., V,C	6.7.76
MR328	Archer Street and Boundary Street, Roseville		25.11.76
MR328	Warringah Road, Currie Road and Brown Street, Forestville		8.12.76
MR328	Warringah Road and Willandra Road, Beacon Hill	V.C	11.8.76
MR339	Old South Head Road and Dover Road, Rose Bay	V,C	3.12.76
MR373	Epping Road and Pembroke Street, Epping	V,C	16.6.77
MR395	Lyons Road and Brent Street, Russell Lea	V.C	25.8.76
MR508 & MR168	Henry Lawson Drive, Forest Road and Jacques Avenue, Peakhurst	V,C	27.8.76
MR522	Shellharbour Road and Queen Street, Warilla	V,C	10.5.77
MR522	Shellharbour and Lakes Entrance Roads, George Street, Warilla		29.4.77
MR527	Hillsborough and Macquarie Roads, Warners Bay	V,C	30.5.77
MR599	Eastern Valley Way and Smith Street, Middle Cove	V,C	2.5.77
SR2007	Gleeson and Burrows Avenues, Sydenham	V,C	5.4.77
SR2014	Harrow Road and Watkin Street, Rockdale		5.1.77
SR2019	Ben Boyd Road and Kurraba Road, Neutral Bay	V,C	26.8.76
SR2036	Belgrave Street and Young Street, Cremorne	V,C	15.11.76
SR2036	Ourimbah Road and MacPherson Street, Spit Junction		20.10.76
SR2046	Lilyfield Road and Mary Street and James Street, Lilyfield		11.2.77
SR2050	Belmore Road and Hannons Road, Riverwood		20.12.76
SR2066	O'Connell Street and Victoria Road, Parramatta		23.11.76
SR2066	Marsden Street and Campbell Street, Parramatta		9.12.76
SR2068	River Road and Uranus Road, Revesby		28.4.77
SR2070	River Road West, Longueville Road and Northwood Road, Lane	•	
	Cove	V.C	23.9.76
SR2070	Northwood Road and Kenneth Street, Northwood		23.9.76
SR2073	Wigram Road and Minogue Crescent, Glebe		10.3.77
SR2075	President Avenue and Kareena Road, Miranda		11.3.77
SR2075	Captain Cook Drive and Cawarra Road, Caringbah		27.5.77
SR2077	Abercrombie Street and Lawson Street, Chippendale		22.9.76
SR2092	Mowbray Road and Archer Street, Chatswood	v.C	16.12.76
SR2092 & SR2093	Mowbray Road and Alpha Road, Willoughby		15.9.76
UNCL.	Burwood Road and Leylands Parade, Belmore		29.11.76
UNCL.	Haldon Street and The Boulevarde, Lakemba		2.12.76
UNCL.	Broadarrow Road and Hannons Road, Narwee		20.12.76
UNCL.	Comenarra Parkway and Fox Valley Road, Wahroonga		11.1.77
UNCL.	Huntley Street and Euston Road, Alexandria		7.9.76
UNCL.	Phillip Street and Moorehead Street, Redfern		10.2.77
	Illawarra Road, Addison Road and Agar Street, Marrickville		20.8.76
UNCL.		V,C	
UNCL.	,		13.5.77
UNCL.	Victoria Street and Shaftesbury Road, Burwood		6.8.76
UNCL.	Jenkins Road, Oakes Road and North Rocks Road, Carlingford	V,C	9.7.76
UNCL.	Clyde Street and Mona Street, Granville		6.1.77
UNCL.	North Rocks Road at Deaf and Blind School, North Rocks		10.8.76
UNCL.	Smith Street and George Street, Parramatta	v,u	23.11.76

LOCATION AND DATE SIGNALS RECONSTRUCTED

Road No.	Location	Type	Date
SH1 & MR168	Princes Highway and Forest Road, Arncliffe	V,R	20.11.76
SH1	Princes Highway at entrance to South Side Plaza, Rockdale	V,R	4.12.76
SH1	Princes Highway and Jubilee Avenue, Carlton	V,R	6.4.77
SH1	Balgownie Road and Princes Highway, Fairy Meadow	v ,R	22.3.77
SH1	Cabbage Tree Lane and Princes Highway, Fairy Meadow	V,R	24.3.77
SH10 & MR328	Boundary Street and Pacific Highway, Roseville	V,R	5.11.76
SH10	Kissing Point Road and Pacific Highway, Turramurra	P,R	13.5.77
MR164 & SR2051	Spit Road and Parriwi Road (North), The Spit	V,R	1.9.76
MR164	King Street and Condamine Street, Manly Vale	V,R	3.1.77

LOCATION AND DATE SIGNALS RECONSTRUCTED - continued

Road No.	Location	Type	Date
MR165 & MR395	Victoria Road and Lyons Road, Drummoyne	V,Ř	28.5.76
MR172 & MR593	Oxford and South Dowling Streets, Darlinghurst		11.11.76
MR199	Rocky Point Road and Grey Avenue, Kogarah	V,R	11.1.77
MR199 & MR194	Rocky Point Road and Ramsgate Road, Ramsgate		3.9.77
MR315	Punchbowl and Burwood Roads, Belfield		4.5.77
MR315	King Georges Road and Lakemba Street, Wiley Park	V,R	25.7.76
MR315	King Georges Road and The Boulevarde, Wiley Park	V,R	12.12.76
MR315 & MR167	King Georges Road and Canterbury Road, Wiley Park		30.6.77
MR373 & MR166	Epping Road and Centennial Avenue, Lane Cove		28.6.77
SR2041	Stoney Creek and Preddeys Roads, Bexley	V,R	16.3.77
SR2064 & SR2056	Elizabeth Street and Frederick Street, Ashfield		20.11.76
SR2064	Elizabeth Street and Bland Street, Ashfield	V,R	10.12.76
SR2093 & SR2091	Brook Street and Chandos Street, Naremburn	V,R	27.5.77

LOCATION AND DATE SIGNALS REMOVED FROM SERVICE

Road No.	Location	Type	Date
F8 & SH1	F8, Wollongong By-pass Road and Princes Highway, Fairy Meadow	V,R	25.3.77
SH1	Princes Highway, south of Lysaght Street, Fairy Meadow	P,RM	22.2.77
SH2	Hume Highway, west of Jacobs Street, North Bankstown	P,RM	13.9.76
SH2	Hume Highway, west of Rookwood Road, Bankstown	P,RM	9.8.76
SH2	Hume Highway, west of Arundel Road, Bass Hill	P,RM	12.10.76
SH10	Pacific Highway, north west of Grosvenor Road, Lindfield	P,RM	16.9.76
SH10	Pacific Highway, north of The Crescent, Gateshead	P,R	Feb. 1977
SH10	Pacific Highway and Oxford Street, Gateshead	V,R	Feb. 1977
SH13	Woodville Road at Old Guildford Public School, Guildford	P,RM	31.8.76
TR82 & MR223	Newcastle Road, Croudace and Dent Streets, Lambton	V,R	June 1977
MR160	Old Northern Road, north east of Showground Road, Castle Hill	P,RM	20.9.76
MR164 & SR2051	Spit Road and Parriwi Road (South), Mosman	V,RM	1.9.76
MR168	Forest Road, north of Croydon Road, Hurstville	P,RM	16.12.76
MR190	Rookwood Road and Brunker Road, Yagoona	V,R	24.3.77
MR220	Vincent and Cooper Streets, Cessnock		18.6.77
MR315	King Georges Road, north of Maher Street, South Hurstville	P,RM	1.12.76
MR326	Park Avenue and Northcott Drive, Kotara	V,R	31.10.76
MR326 & MR188	St. James and Bridges Roads, New Lambton	V,R	29.5.77
MR328	Warringah Road, north of Brown Street, Forestville	P,RM	8.12.76
MR336	Mann and Donnison Streets, Gosford	V,R	15.10.76
MR339	Old South Head Road, north east of Beaumont Street, Rose Bay		3.12.76
MR527 & MR223	Macquarie and Cardiff Roads, Cardiff	V,R	11.10.76

SUMMARY

Traffic Signals	Vehicle Actuated	Pedestrian Actuated	Total
Total constructed, 1976-77	 116	4	120
Total constructed, 1975-76	 109	9	118
Total removed from service, 1976-77	 1	11	12
Total removed from service, 1975-76	 2	9	11
Net Total, 1976-77	 115	-7	\ 108
Net Total, 1975-76	 107	0	107
Total vehicle actuated signal as at 30.6.77	 		1126
Total vehicle actuated signal as at 30.6.76	 		1011
Total pedestrian actuated signal as at 30.6.77	 		246
Total pedestrian actuated signal as at 30.6.76			253
Total Traffic Signals, 30.6.77			1372
Total Traffic Signals, 30.6.76			1264
Total Traffic Signals Reconstructed			
1976-77	 		32
1975-76	 	** ** ** **	43

TEMPOR	ARY SIGNALS AT WORKS IN PRO	PRIORITY	ROADS - continued		
Road No.	Location	Date	Road No.	Location	km
F5	South Western Freeway over Main		MR171	Flinders Street/Anzac Parade, from	
	Southern Railway Line, Campbelltown	1.11.76		Oxford Street, Taylor Square to Kingsford Junction, Kingsford	6.3
SH10	Pacific Highway at Heron's Creek	1.11.70	MR172	Kingsford Junction, Kingsford Bondi Road/Campbell Parade from	0.3
	Bridge, 56.6 km north of Taree	28.2.77	-	Oxford Street, Bondi Junction to	
SH18	Castlereagh Highway at both ends		Mana	Queen Elizabeth Drive, North Bondi	3.0
	of Bridge over Namoi River, Walgett	15.11.76	MR174	McCarrs Creek Road/Pittwater Road from Terrey Hills to Mona Vale	14.4
SH20	Riverina Highway at Howlong	10.11.70	MR183	Canal Road/Ricketty Street/Kent	14.4
	Bridge over Murray River,			Road/Gardeners Road from Princes	
	Howlong	1.11.76		Highway, St. Peters to Bunnerong	- 0
NUMBER	OF TRAFFIC SIGNALS CO-ORDIN	NATED	MR184	Road at Kingsford Junction Windsor Street/Richmond Road from	5.6
Cable-le	ss co-ordinated systems installed at:			East Market Street, Richmond to	
(a) Minto-	doo	4 sites		George Street, Windsor	6.0
(a) Water (b) Fairy	loo Meadow	7 sites	MR194 & SR2080	General Holmes Drive/Grand Parade/Sandringham Street from	
(c) Mosm	an	11 sites	3K2060	Botany Road, Mascot to Rocky Point	
(d) Carlin	gford :	2 sites		Road, Ramsgate	10.5
(e) Granv	ille	2 sites	MR194	Mill Pond Drive from General Holmes	
(f) Mona	Vale	3 sites		Drive to Botany Road, Mascot	0.2
(g) Lewis	ham ord West	9 sites 7 sites	MR220	Palmers Road/Awaba Road from	
(i) North		5 sites		MR392, Freeman's Waterhole to The	12.0
	pool	2 sites	MR227	Boulevarde, Toronto	13.0
			1411(22)	way, Sylvania to Kingsway, Miranda	3.8
PRIOR	ITY ROADS		MR227	Kingsway from Princes Highway,	
	•			Gymea to Cronulla Street, Cronulla	7.7
	gth and location of classified roads an traffic routes which have been conve		MR318	Richmond Road/Marlborough Road	
	ad conditions are listed below.	erteu to		from Arthur Street to Parramatta Road at Homebush West	1.0
-	•		MR325	Redhead Road/Dudley Road from	1.0
Road No.		km	***************************************	John Fisher Road, Belmont North to	
SH1	Princes Highway from May Street,			Dudley Road at Charlestown	12.0
	St. Peters to Rocky Point Road, Kogarah	8.7	MR325	The Esplanade from T.C. Firth	
SH1	Princes Highway from Farrell Road,	0.7		Avenue, Boolaroo to intersection with	5.0
	Bulli to Huntley Road, Yallah	27.0	MR325	Croudace Street at Warners Bay Warners Bay Road from intersection	9. 0
SH2	Hume Highway from Parramatta		WINGEO	with MR527, Croudace Street at War-	
	Road to Greenhills Street at Croydon	0.7		ners Bay to Pacific Highway at	
SH2	Park	2.7		Gateshead	6.0
0112	Street at Croydon Park to Woodville		MR328	Warringah Road from Frenchs	
	Road, Villawood	12.0		Forest Road, Beacon Hill to Pittwater Road, Brookvale	1.7
SH7	Mitchell Highway from Molong/		MR373	Epping Road from Blaxland Road,	2.,,
	Canobolas Shire boundary 19 km		*******	Epping to Divisional Boundary at	
	west of Orange to Molong/Wellington Shire boundary, 59 km north of			Lane Cove River, East Ryde	7.0
	Orange	38.0	MR395	Great North Road/Lyons Road from	
SH10	Pacific Highway from Boundary			Parramatta Road, Five Dock to Victoria Road, Drummoyne	3.8
	Street, Chatswood to Pennant Hills	40.0	MR400	Military Road/Bradleys Head Road	0.0
CU10	Road at Pearces Corner, Waitara Pacific Highway from Alison	13.0	MINTOO	from Spit Junction to Bradleys Head	3.4
SH10	Road, Wyong to Parbury Road,		MR523	Pyrmont Bridge Road from Par-	
	Swansea	36.0		ramatta Road, Camperdown to Union	
MR159	Sydney Road/Belgrave Street/		Manage	Street, Pyrmont	2.5
	Pittwater Road from Condamine		MR525	Liberator General San Martin Drive at Terrey Hills	12.1
•	Street, Balgowlah to William Street, Brookvale	6.3	MR527	Croudace Street/Macquarie Road	
MR166	Centennial Avenue/Burns Bay Road	0.0	1411(02)	from Pacific Highway, Belmont to the	
	from Epping Road, Lane Cove to			intersection with MR223, Cardiff	13.0
	Gladesville Bridge Ramp, Gladesville	4.0	MR530	Howard Avenue/The Strand/Griffin	
MR167	Milperra Road from Henry Lawson			Road/Adams Street/Oliver Street	
	Drive, Milperra to The River Road,	4.0		from Pittwater Road, Dee Why to Pitt- water Road, Queenscliff	5.2
MR168	Forest Road from Princes High-	4.0	MR549	Georges River Road/Milton Street	
1411/100	way, Arncliffe to Boundary Road,		1411/043	from Hume Highway to Greenhills	
	Peakhurst	9.6		Street at Croydon	1.0
MR170	Regent Street/Botany Road from		MR549	Georges River Road from Greenhills	
	Cleveland Street, Redfern to Bourke			Street at Croydon Park to Coronation	0.0
	Street, Zetland	2.6		Parade, Belfield	2.0

PRIORITY ROADS — continued

PRIORITY ROADS — continued

PRIORIT	roads - continued		PRIORITI	KOVD2 - Continued	
Road No.	Location	km	Road No.	Location	km
MR599	Eastern Valley Way/Sailors Bay Road/Strathallen Avenue/Miller Street from Boundary Street East		SR2089	William Street from Ocean Avenue to New South Head Road at Double Bay	0.6
SR2008	Roseville to Falcon Street, Cammeray	6.4	SR2095	Westbourne Street from Victoria Road to Bayswater Road at Drum- moyne	0.3
SR2013	Zetland to Joyce Drive, Mascot Ramsay Street/Marion Street/	3.5	SR2095	Bayswater Road from Westbourne Street to Lyons Road at Drummoyne	0.4
	Leichhardt Street/Styles Street/ Collins Street from Great North Road to Johnston Street, Annandale	2.2	SR2095 UNCL.	Marlborough Street from Westbourne Street to Lyons Road at Drummoyne Frenchs Forest Road from Wakehurst	0.4
SR2014	Frederick Street/Watkin Street/ Harrow Road/Bexley Road/Beamish	3.3	UNCL.	Parkway to Sydney Road at Seaforth Balmain Road from Perry Street,	1.4
	Street/Brighton Avenue from Rawson Street, Rockdale to Georges			Lilyfield to Parramatta Road, Petersham	1.8
SR2018	River Road, Croydon Park Old Canterbury Road from Griffiths Street, Dulwich Hill to Parramatta	8.9	UNCL.	Darley Road from Alison Road to Carrington Road, Randwick Rainbow Street from Anzac Parade,	2.1
	Road, Leichhardt	2.4	OI VOL .	Kingsford to Denning Street, Coogee	2.7
SR2021	William Street from Kingsgrove Road, South Belmore to Homer	0.4	UNCL.	Clovelly Road from Darley Road, Randwick to Clovelly Bay	2.2
SR2033	Street, Earlwood	2.4	UNCL.	York Road/Avoca Street from Oxford Street, Woollahra to Anzac Parade, Kingsford	5.6
SR2040	water Road, Gladesville	1.7	UNCL.	Campbell Parade/Military Road from Queen Elizabeth Drive, North Bondi to Old South Head Road, Vaucluse	4.4
SR2040	Palace Street, Ashfield	0.3	UNCL.	Ocean Street from Oxford Street, Woollahra to New South Head Road, Edgecliff	1.3
	Street from Council Boundary, south of Palace Street, Ashfield to Canterbury Road, Canterbury	1.8	UNCL.	Harris Street from Broadway, Ultimo to Miller Street, Pyrmont	2.4
SR2041	Stoney Creek Road from Forest Road, Bexley to Forest Road,	2.0	UNCL.	Cronulla Street from Kingsway, Miranda to Waratah Street, Cronulla	0.6
SR2046	Riverwood	5.6	UNCL.	Homebush Road/Water Street from Broughton Road, Strathfield to Punchbowl Road, Belfield	4.0
	Road, Leichhardt to Lilyfield Road, Lilyfield	1.7	UNCL.	Merrylands Road from Greystanes Road, Greystanes to Pitt Street,	
SR2046	Brenan Street/Railway Parade from Balmain Road to The Crescent	4.0		Mombri Street, Loftus Street and Merrylands Road to Woodville Road,	7.0
SR2056	at Lilyfield	1.3	UNCL.	Merrylands	3.0
OBaasa	from Parramatta Road, Haberfield to Elliott Street, Balmain	5.6	UNCL.	Lyton Street/Lancaster Street from Richmond Road to Newton Road,	
SR2056	Frederick Street/Thomas Street/ Milton Street, north from Parramatta Road, Ashfield to Liverpool Road		UNCL.	Newton Road from Lancaster Street to Main Street at Blacktown	2.0
SR2059	(Hume Highway) at Croydon	1.7	UNCL.	Main Street/Blacktown Road from Newton Road, Blacktown to Wall	2.0
511255	Street from Great North Road, Five Dock to Divisional Boundary near		UNCL.	Park Avenue, Seven Hills	1.0
SR2082	Taylor Street, Canada Bay Henry Street from Penrith By-pass be- tween Riley Street and Colless Street,	1.8	UNCL.	Railway Road to Quakers Road Quakers Road/Davis Road from Douglas Road, Quakers Hill to Rich-	1.0
SR2085	Penrith Blacktown Road from Wall Park Av-	1.5	UNCL.	mond Road, Blacktown Turner Street from Sunnyholt Road to Northcott Road at Lalor Park	4.0 1.0
SR2066	enue, Seven Hills to Great Western Highway at Prospect	3.0	UNCL.	Northcott Road from Turner Street, Lalor Park to Johnson Avenue, Seven	
	Princes Highway, Arncliffe to Forest Road, Bexley	2.4	UNCL.	Hills	2.5 0.5
SR2087	Pemberton Street from Arthur Street, Homebush West to Liverpool Road (Hume Highway), South Strathfield	2.0	UNCL.	Sackville Street from Sunnyholt Road to Wheeler Street at Blacktown	1.0
SR2089	Ocean Avenue from New South Head Road, Edgecliff to William Street,		UNCL.	Wheeler Street from Sackville Street, Blacktown to Northcott Road, Lalor	
	Double Bay	8.0		Park	1.0

CLEARWAYS

	Location	A.M. 6.30-9.30	P.M. 3.30-6.30	Both A.M. & P.M.
MR167	Milperra/Canterbury Road between Chapel Road and Henry			1
	Lawson Drive			1.5 km
MR190	St. Hilliers Road between Rawson Street and Parramatta Road			1.0 km
SR2080	Sandringham Street from Rocky Point Road to Grand Parade			
	(Eastbound)	1.3 km		
SR2080	Sandringham Street from Rocky Point Road to Grand Parade			
	(Westbound)		1.3 km	
	TOTAL:	1.3 km	1.3 km	2.5 km

SPEED ZONES

Lengths of speed zoning and extension of speed zones are listed below.

Particulars								New Speed Zone (km)	Extension of Speed Zone (km)
Total 60 km/h speed zone, 1976-77	 	 24	10						
Total 80 km/h speed zone, 1976-77	 	 	 	 	 		 	 25	8
Total 100 km/h speed zone, 1976-77	 	 14	0						
Total 110 km/h speed zone, 1976-77	 	 11	0						

LINEMARKING

The length of longitudinal linemarking and the area of other marking undertaken during the year.

Particulars	Unit	New	Remarking
Longitudinal lines marked, 1976-77	km	1529	34504
Transverse lines and zebra crossings, symbols marked, 1976-77	m^2	6906	86110

SIGNS

The number of new and replacement signs erected during the year are listed below.

Particulars								New	Replacement
Total number of signs erected, 1976-77	 	 ٠	 	 	 	 	 	20,500	22,400

WIDENING OF METROPOLITAN MAIN ROADS

	During the	year ended 30 June 1977 —		
1	l. Sixty plai at the Re	ns (in 122 sheets) were prepared and lodged gistrar General's Department, preparatory to	MR183	Gardeners Road. Between Bunnerong Road and Slattery Place. Municipalities of Botany
		n for road widening purposes within the		and Randwick.
	Metropoli		MR190	St. Hilliers Road. Between Hall Street and
2	2. Six realig	nment schemes, involving 6.83 km of road,		Parramatta Road (SH5). Municipality of
		tted during the year, together with 38 resump-	Mann	Auburn.
		land necessary to implement widening	MR190	Joseph Street. Between Georges Avenue and
	schemes.		MD400	New Street. Municipality of Auburn.
3		cipal routes in the Metropolitan Area (exclu-	MR190	Rookwood Road. Between Lewis Street and
•		ways), on which property was being acquired		McMillan Street. Municipality of Banks-
		e year, are as follows:	MR309	town. Rydalmere Avenue. Intersections with
	SH2	Hume Highway. Improvement of intersec-	MIKOUS	MR165 – Victoria Road and MR574 – Kiss-
		tion with Hector Street, Bass Hill. Municipality of Bankstown.		ing Point Road. City of Parramatta.
	SH5	Great Western Highway. Between Millen	MR315	Punchbowl Road. Between Juno Parade and
	3113	Street and French Street. City of Penrith.	MIKOIS	Coronation Parade. Municipality of Strath-
	SH10	Pacific Highway. Asquith to Mt. Ku-ring-		field.
	51110	gai. Shire of Hornsby.	MR315	King Georges Road. Between Lakemba
	SH13	Pennant Hills Road. Intersection with		Street and Roselands Avenue. Municipality
	51110	MR158 - Marsden Road. City of Parra-		of Canterbury.
		matta.	MR318	Marlborough Road and Richmond Road,
	MR160	Old Northern Road, Dural, Shire of		Flemington. Municipality of Strathfield.
		Hornsby.	MR515	Elizabeth Drive. Between Copeland Street
	MR162	Lane Cove Road, Ryde Road and Mona Vale		and Cabramatta Creek. City of Liverpool.
		Road. Ryde to St. Ives. Municipalities of	MR515	Elizabeth Drive. Between Cabramatta
		Ryde and Ku-ring-gai.		Creek and Edensor Park. City of Liverpool
	MR164	Military Road. Laycock Street to Wycombe		and Municipality of Fairfield.
		Road. Municipality of North Sydney.	MR608	Copeland Street. City of Liverpool.
	MR167	Canterbury Road. Intersection with SR2061	SR2061	Davies Road, Padstow. Municipality of
		 Fairford Road. Municipality of Banks- 		Bankstown.
		town.	SR2081	Rutledge Street and First Avenue. Railway
	MR169	Bay Street. Between Moate Avenue and The		overbridge, Eastwood. Municipality of
		Grand Parade. Municipality of Rockdale.	00-0	Ryde.
	MR172	Oxford Street. Bondi Junction By-Pass.	CR5015	Briens Road. Between Windsor Road and
	140.00	Municipality of Woollahra.	CDrose	Kleins Road. City of Parramatta.
	MR173	New South Head Road. Intersection with	CR5016	Dilke Road, Padstow. Municipality of Bankstown.
		Ocean Street. Municipality of Woollahra.		Danksiuwn,
				•

BITUMINOUS SURFACING COMPLETED DURING THE YEAR ENDED 30 JUNE 1977 SCHEDULED ACCORDING TO ROAD CLASSIFICATIONS TABLE 1 – ROAD KILOMETRES

	Free-	State	Trunk		Second.		Develop.		
Nature of Work	ways	H'ways	Roads	Roads	Roads	Roads	Roads	Roads	Sub-Tot
1. Initial Surfacing A. Prime	0.00	2.55	0.00	4.07	0.00	0.00	0.00	0.00	6.62
B. Primer Seal	0.00	7.50	0.00	0.70	0.00	0.00	0.00	0.00	8.20
C. Sprayed Seal	0.00	22.64	21.52	47.39	0.00	0.00	0.00	1.20	92.75
D. Enrichment Reseal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder)	13.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.50
G. Plant Mix (Tar Binder)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total	13.50	32. 69	21.52	52.16	0.00	0.00	0.00	1.20	121.07
2. Surfacing Lengths Primed Before Year	0.00	0.00	0.00	0.00	0.00	0.00	0.00	A 00	0.00
A. Prime	0.00	0.00 0.00	0.00 0.00	0.00 8.60	0.00 0.00	0.00 0.00	0.00	0.00 0.00	0.00 8.60
B. Primer Seal	0.00	22.23	13.66	14.11	0.00	0.00	0.00	0.00	50.00
D. Enrichment Reseal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder)	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.31
G. Plant Mix (Tar Binder)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub Total	0.00	22.54	13. 6 6	22.71	0.00	0.00	0.00	0.00	58.91
3. Restoration After Widening/Strengthening									
A. Prime	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Primer Seal	0.00	21.39	0.00	0.24	0.00	0.00	0.00	0.00	21.63 208.67
C. Sprayed Seal	0.00 0.00	137.98 0.00	13.73 0.00	47.59 0.00	4.97 0.00	0.00 0.00	4.40 0.00	0.00 0.00	0.00
D. Enrichment Reseal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder)	0.00	8.81	6.21	8.59	2.84	0.00	0.00	0.74	27.19
G. Plant Mix (Tar Binder)	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.20
Sub Total	0.00	168.18	20.14	56.42	7.81	0.00	4.40	0.74	257.69
4. Restoration After Adding Lanes									
A. Prime	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Primer Seal	0.00	0.54	0.94	0.00	0.00	0.00	0.00	0.00	1.48
C. Sprayed Seal	0.00	13.09	0.00	2.90	0.34	0.00	0.00	0.00	16.33
D. Enrichment Reseal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal	0.00	0.00	0.00	0.00	0.00 3.43	0.00 0.00	0.00 0.00	0.00 0.00	0.00 23.33
F. Plant Mix (Bitumen Binder)	0.00 0.00	7.67 0.85	0.00 0.00	12.23 0.00	0.00	0.00	0.00	0.00	0.85
Sub Total	0.00	22.15	0.94	15.13	3.77	0.00	0.00	0.00	41.99
•				•••					
5. Restoration After New Alignment/Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
A. Prime	·0.00 0.00	0.00 10.97	2.81	3.30	0.00	0.00	0.00	0.00	17.08
C. Sprayed Seal	0.00	47.74	8.34	6.81	0.00	0.24	0.00	0.00	63.13
D. Enrichment Reseal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry Seal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (Bitumen Binder)	0.00	22.29	1.49	2.38	0.00	0.00		0.00	26.16
G. Plant Mix (Tar Binder)	0.00	1.82	0.00	0.00	0.00	0.00		0.00	1.82
Sub Total	0.00	82.82	12.64	12.49	0.00	0.24	0.00	0.00	108.19
6. Maintenance Resurfacing			<i>-</i>						
A. Prime	0.00	0.00	0.00	1.40	0.00	0.00		0.00	1.40 5.72
B. Primer Seal	0.00	5.72 759.29	0.00 168.74	0.00 381.33	0.00 3.23	0.00 4.66		0.00 0.00	3.72 1317.25
C. Sprayed Seal	0.00	45.90	1.93	2.92	0.00	0.00		0.00	50.75
E. Slurry Seal	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00
F. Plant Mix (Bitumen Binder)	1.95	59.52	2.16	61.99	10.48	0.50		1.40	138.00
G. Plant Mix (Tar Binder)	0.00		0.00	0.00	0.00	0.00		0.00	0.00
Sub Total	1.95	870.43	172.83	447.64	13.71	5.16	0.00	1.40	1513.12
7. Surfacing Sub Totals									
A. Prime	0.00		0.00	5.47	0.00	0.00			8.02
B. Primer Seal	0.00		3.75	12.84	0.00	0.00			62.71
C. Sprayed Seal	0.00		225.99	500.13	8.54	4.90		1.20	1748.13 50.75
D. Enrichment Reseal	0.00 0.00	45.90 0.00	1.93 0. 0 0	2.92 0.00	0.00	0.00 0.00		0.00 0.00	0.00
E. Slurry Seal	15.45		9.86	85.19	16.75	0.50			228.49
G. Plant Mix (Tar Binder)	0.00		0.20	0.00	0.00	0.00			2.87
Total	15.45		241.73	606.55	25.29	5.40			2100.97

BITUMINOUS SURFACING COMPLETED DURING THE YEAR ENDED 30 JUNE 1977 SCHEDULED ACCORDING TO ROAD CLASSIFICATIONS TABLE 2 – LANE KILOMETRES

Nature of Work	Free- ways	State H'ways	Trunk Roads	Main Roads	Second. Roads	Tourist Roads	Develop. Roads		All Rds Sub-Tot
	ways	II ways	Noada	Noaus	Roaus	Koans	NUAUS	NUaus	340-101
1. Initial Surfacing									
A. Prime	0.00	5.10	0.00	8.14	0.00	0.00	0.00	0.00	13.24
B. Primer seal	0.00 0.00	15.00	0.00	1.40	0.00	0.00	0.00	0.00	16.40
D. Enrichment reseal	0.00	·45.28 0.00	43.04 0.00	95.51 0.00	0.00	0.00 0.00	0.00	2.40 0.00	186.23 0.00
E. Slurry seal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant Mix (bitumen binder)	54.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.00
G. Plant mix (tar binder)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub total	54.00	65.38	43.04	105.05	0.00	0.00	0.00	2.40	269.87
2. Surfacing Lengths Primed Before Year									
A. Prime	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Primer seal	0.00 0.00	0.00 45.05	0.00 27.32	17.20 28.22	0.00	0.00 0.00	0.00	0.00	17.20 100.59
D. Enrichment reseal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Slurry seal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant mix (bitumen binder)	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.62
G. Plant mix (tar binder)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub total	0.00	45.67	27.32	45.42	0.00	0.00	0.00	0.00	118.41
A B A A A A A A A A A A A A A A A A A A									
3. Restoration After Widening/Strengthening					_	_	_	_	_
A. Prime	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Sprayed seal	0.00	26.58 272.14	0.00	0.48	0.00	0.00	0.00	0.00	27.06
D. Enrichment reseal	0.00	0.00	30.78 0.00	94.66 0.00	9.94 0.00	0.00 0.00	8.80 0.00	0.00 0.00	416.32 0.00
E. Slurry seal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant mix (bitumen binder)	0.00	17.84	14.74	43.79	8.06	0.00	0.00	1.48	85.91
G. Plant mix (tar binder)	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.40
Sub total	0.00	316.56	45.92	138.93	18.00	0.00	8.80	1.48	529.69
4. Restoration After Adding Lanes									
A. Prime	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Primer seal	0.00	2.16 24.24	3.76 0.00	0.00 4.65	0.00	0.00	0.00	0.00	5.92
D. Enrichment reseal	0.00	. 0.00	0.00	0.00	1.36 0.00	0.00	0.00	0.00	30.25 0.00
E. Slurry seal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant mix (bitumen binder)	0.00	25.60	0.00	44.02	11.68	0.00	0.00	0.00	81.30
G. Plant mix (tar binder)	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.00	0.85
Sub total	0.00	52.85	3.76	48.67	13.04	0.00	0.00	0.00	118.32
- B									
5. Restoration After a New Alignment/Grade	0.00	0.00							
A. Prime	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Sprayed seal	0.00	24.94 98.98	5.62 17.94	6.60 19.62	0.00 0.00	0.00 0.24	0.00	0.00	37.16
D. Enrichment reseal	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	136.78
E. Slurry seal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant mix (bitumen binder)	0.00	50.52	3.49	5.68	0.00	0.00	0.00	0.00	59.69
G. Plant mix (tar binder)	0.00	3.64	0.00	0.00	0.00	0.00	0.00	0.00	3.64
Sub total	0.00	178.08	27.05	31.90	0.00	0.24	0.00	0.00	237.27
8 Maintanana Bassaf!									
6. Maintenance Resurfacing A. Prime	0.00	0.00	A AA	0.00	0.00		0.00	0.00	
A. Prime	0.00	0.00 11.44	0.00 · 0.00	2.80 0.00	0.00 0.00	0.00	0.00 0.00	0.00	2.80
C. Sprayed seal	0.00	1544.35	337.48	761.41	6.46	9.32	0.00	0.00 0.00	11.44 2659.02
D. Enrichment reseal	0.00	91.80	3.86	5.84	0.00	0.00	0.00	0.00	101.50
E. Slurry seal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant mix (bitumen binder)	7.80	149.60	7.18	150.10	31.37	1.00	0.00	2.80	349.85
G. Plant mix (tar binder)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub total	7.80	1797.19	348.52	920.15	37.83	10.32	0.00	2.80	3124.61
7 Surfacing Sub Totals									
7. Surfacing Sub Totals A. Prime	0.00	E 10	0.00	10.04	0.00	0.00	0.00		40.04
B. Primer seal	0.00	5.10 80.12	0.00 9.38	10.94 25.68	0.00 0.00	0.00 0.00	0.00	0.00	16.04
C. Sprayed seal	0.00	2030.04	456.56	1004.07	17.76	9.56	8.80	2.40	115.18 3529.19
D. Enrichment reseal	0.00	91.80	3.86	5.84	0.00	0.00	0.00	0.00	101.50
E. Slurry seal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F. Plant mix (bitumen binder)	61.80	244.18	25.41	243.59	51.11	1.00	0.00	4.28	631.37
G. Plant mix (tar binder)	0.00	4.49	0.40	0.00	0.00	0.00	0.00	0.00	4.89
Total	61.80	2455.73	495.61	1290.12	68.87	10.56	8.80	6.68	4398.17

BITUMINOUS SURFACING COMPLETED DURING THE YEAR ENDED 30 JUNE 1977 SCHEDULED ACCORDING TO WORK BY DEPARTMENT AND COUNCILS

Council

TABLE 1 - ROAD KILOMETRES
Department

		Departme		Council	Con-
		Direct	Con-	Direct	
1	Initial Surfacing	Control	tract	Control	tract
1.		0.00	0.00	0.00	6.62
	A. Prime				3.53
	B. Primer seal	2.13	2.54	0.00	
	C. Sprayed seal	16.96	2.45	8.88	64.46
	D. Enrichment reseal	0.00	0.00	0.00	0.00
	E. Slurry seal	0.00	0.00	0.00	0.00
	•	0.00	13.50	0.00	0.00
	F. Plant mix (bitumen binder)				
	G. Plant mix (tar binder)	0.00	0.00	0.00	0.00
	Sub total	19.09	18.49	8.88	74.61
	Confesion Langtha Drimed Refere Vone				
2.	Surfacing Lengths Primed Before Year	0.00	0.00	0.00	0.00
	A. Prime	0.00	0.00	0.00	0.00
	B. Primer seal	0.00	0.00	0.00	8.60
	C. Sprayed seal	22.23	0.00	4.65	23.12
	D. Enrichment reseal	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00
	E. Slurry seal				0.00
	F. Plant mix (bitumen binder) 1	0.31	0.00	0.00	
	G. Plant mix (tar binder)	0.00	0.00	0.00	0.00
	Sub total	22.54	0.00	4.65	31.72
	Destruction After Wilderton (Channeth Line				
3.	Restoration After Widening/Strengthening	0.00	0.00	0.00	0.00
	A. Prime	0.00	0.00	0.00	-
	B. Primer seal	17.35	0.00	0.00	4.28
	C. Sprayed seal	127.84	1.53	24.17	55.13
	D. Enrichment reseal	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00
	E. Slurry seal				
	F. Plant mix (bitumen binder)	11.14	5.76	1.74	8.55
	G. Plant mix (tar binder)	0.20	0.00	0.00	0.00
	Sub total	156.53	7.29	25.91	67.96
	Destauration After Adding Lance				
4.	Restoration After Adding Lanes	0.00	0.00	0.00	0.00
	A. Prime	0.00			
	B. Primer seal	0.00	0.00	0.00	1.48
	C. Sprayed seal	12.71	0.00	2.08	1.54
	D. Enrichment reseal	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00
				2.98	6.67
	F. Plant mix (bitumen binder)	13.47	0.21		
	G. Plant mix (tar binder)	0.85	0.00	0.00	0.00
	Sub total	<i>2</i> 7.03	0.21	5.06	9.69
	,				
5.	Restoration After New Alignment/Grade				
٥.	A. Prime	0.00	0.00	0.00	0.00
		9.58	0.00	2.81	4.69
	B. Primer seal			6.34	7.92
	C. Sprayed seal	48.37	0.50		
	D. Enrichment reseal	0.00	0.00	0.00	0.00
	E. Slurry seal	0.00	0.00	0.00	0.00
	F. Plant mix (bitumen binder)	19.67	3.43	1.30	1.76
	O Di Annie (Annie Indon)	1.82	0.00	0.00	0.00
			3.93	10.45	14.37
	Sub total	79.44	0.90	10.43	14.07
6.	Maintenance Resurfacing				
	A. Prime	0.00	0.00	0.00	1.40
	B. Primer seal	0.00	5.72	0.00	0.00
		708.01	27.41	122.51	459.32
		45.90	0.00	0.00	4.85
	D. Enrichment reseal				
	E. Slurry seal	0.00	0.00	0.00	0.00
	F. Plant mix (bitumen binder)	93.64	11.46	4.10	28.80
	G. Plant mix (tar binder)	0.00	0.00	0.00	0.00
	Sub total	847.55	44.59	126.61	494.37
	Sub total 11 11 11 11 11 11 11 11 11 11 11 11 11	•			
_	Curfacing Sub Totale				
7.	Surfacing Sub Totals	0.00	0.00	0.00	8.02
	A. Prime				
	B. Primer seal	29.06	8.26	2.81	22.58
	C. Sprayed seal	936.12	31.89	168.63	611.49
	D. Enrichment reseal	45.90	0.00	0.00	4.85
		0.00	0.00	0.00	0.00
				10.12	45.78
	F. Plant mix (bitumen binder)	138.23	34.36		
	G. Plant mix (tar binder)	2.87	0.00	0.00	0.00
	Total	1152.18	74.51	181.56	692.72
		1000 00			
	Total by Department	1226.69			
	Total by Councils	874.28 210	00.97		
		1333.74			
	rotal by Direct Control		20.07		
	Total by Contract	767.23 210	00.97		

BITUMINOUS SURFACING COMPLETED DURING THE YEAR ENDED 30 JUNE 1977 SCHEDULED ACCORDING TO WORK BY DEPARTMENT AND COUNCILS

TABLE 2 - LANE KILOMETRES

		Depart	ment	Counc	ei)
		Direct	Con-	Direct	Con-
1.	Initial Surfacing	Control	tract	Control	tract
1.	A. Prime	0.00	0.00	0.00	13.24
	B. Primer seal	4.26	5.08	0.00	7.06
	C. Sprayed seal	34.65	4.90	17.76	128.92
	D. Enrichment reseal	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	0.00
		0.00	54.00	0.00	0.00
	F. Plant mix (bitumen binder)	0.00	0.00	0.00	0.00
	G. Plant mix (tar binder)				149.22
	Sub total	38.91	63.98	17.76	149.22
_					
2.	Surfacing Lengths Primed Before Year		2.22	0.00	0.00
	A. Prime	0.00	0.00	0.00	0.00
	B. Primer seal	0.00	0.00	0.00	17.20
	C. Sprayed seal	45.05	0.00	9.30	46.24
	D. Enrichment reseal	0.00	0.00	0.00	0.00
	E. Slurry seal	0.00	0.00	0.00	0.00
	F. Plant mix (bitumen binder)	0.62	0.00	0.00	0.00
	G. Plant mix (tar binder)	0.00	0.00	0.00	0.00
	Sub total	45.67	0.00	9.30	63.44
3.	Restoration After Widening/Strengthening				
	A. Prime	0.00	0.00	0.00	0.00
	B. Primer seal	18.02	0.00	0.00	9.04
	C. Sprayed seal	250.61	2.91	49.63	113.17
	D. Enrichment reseal	0.00	0.00	0.00	0.00
	E. Slurry seal	0.00	0.00	0.00	0.00
	F. Plant mix (bitumen binder)	28.69	11.52	3.66	42.04
	G. Plant mix (tar binder)	0.40	0.00	0.00	0.00
	Sub total	297.72	14.43	53.29	164.25
4.	Restoration After Adding Lanes			•	
•	A. Prime	0.00	0.00	0.00	0.00
	B. Primer seal	0.00	0.00	0.00	5.92
	C. Sprayed seal	23.86	0.00	3.21	3.18
	D. Enrichment reseal	0.00	0.00	0.00	0.00
	E. Slurry seal	0.00	0.00	0.00	0.00
		48.60	0.21	7.19	25.30
	F. Plant mix (bitumen binder)	0.85	0.00	0.00	0.00
	G. Plant mix (tar binder)	73.31	0.21	10.40	34.40
	Sub total	73.31	0.21	10.40	34.40
_	Bassassian After Niew Alienment (Conde				
5.	Restoration After New Alignment/Grade	0.00	0.00	0.00	0.00
	A. Prime	22.16	0.00	5.62	9.38
	B. Primer seal	100.24	1.00	14.46	21.08
	- L +	0.00	0.00	0.00	0.00
	D. Enrichment reseal	0.00	0.00	0.00	0.00
	E. Slurry seal	42.98	9.16	3.52	4.03
	F. Plant mix (bitumen binder)	3.64	0.00	0.00	0.00
	G. Plant mix (tar binder)			23.60	34.49
	Sub total	169.02	10.16	23.00	57.73
	M. C. A D				
6.	Maintenance Resurfacing	0.00	0.00	n no	2.80
	A. Prime	0.00	0.00	0.00	
	B. Primer seal	0.00	11.44	0.00	0.00 920.33
	C. Sprayed seal	1430.83	62.10	245.76	
	D. Enrichment reseal	91.80	0.00	0.00	9.70
	E. Slurry seal	0.00	0.00	0.00	0.00
	F. Plant mix (bitumen binder)	234.27	23.76	11.85	79.97
	G. Plant mix (tar binder)	0.00	0.00	0.00	0.00
	Sub total	1756.90	97.30	257.61	1012.80
_					
7.					***
	A. Prime	0.00	0.00	0.00	16.04
	B. Primer seal	44.44	16.52	5.62	48.60
	C. Sprayed seal	1885.24	70.91	340.12	1232.92
	D. Enrichment reseal	91.80	0.00	0.00	9.70
	E. Slurry seal	0.00	0.00	0.00	0.00
	F. Plant mix (bitumen binder)	355.16	98.65	26.22	151.34
	G. Plant mix (tar binder)	4.89	0.00	0.00	0.00
	Total	2381.53	186.08	371.96	1458.60
	Total by Department	2567.61			
	• • • • • • • • • • • • • • • • • • •	1830.56	4398.17		
	**************************************	2753.49	4209 17		
	Total by Contract	1644.68	4398.17		

TYPES OF ROAD SURFACES AS AT 30 JUNE 1977

SCHEDULED ACCORDING TO ROAD CLASSIFICATIONS

COUNTY OF	Cement	Bitumen	Concr	ete	Bitumen		Formed	Natural	
CUMBERLAND	Concrete	Pre-1977 Tar B	inder Bit	. Binder	Other	Gravel	only	Surface	Total
Freeways	0.00	85.91	0.00	0.00	0.00	0.00	0.00	0.00	85.91
State Highways	25.20	211.59	0.00	51.44	25.79	0.00	0.00	0.00	314.02
Trunk Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Main Roads	53.22	568.09	0.00	109.86	354.59	0.42	0.00	0.21	1086.39
Secondary Roads	12.42	186.70	0.00	30.61	52.65	0.33	0.00	4.52	287.23
Tourist Roads	0.00	7.97	0.00	0.50	52.49	9.77	0.93	13.68	85.34
Developmental Roads	0.00	0.00	0.00	0.00	8.69	5.98	8.52	6.89	30.08
Unclassified Roads	0.00	16.22	0.00	2.14	18.50	3.81	0.00	0.00	40.67
Total	90.84	1076.48	0.00	194.55	512.71	20.31	9.45	25.30	1929.64
COUNTRY									
Freeways	0.00	25.98	0.00	15.45	0.00	0.00	0.00	0.00	41.43
State Highways	42.47	453.51	2.67	76.83	8666.16	324.38	597.98	0.00	10164.00
Trunk Roads	6.39	13.22	0.20	9.86	4468.32	1720.35	856.20	0.00	7074.54
Main Roads	12.43	271.12	0.00	31.84	8466.27	5898.59	2501.71	36.32	17218.28
Secondary Roads	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tourist Roads	0.00	1.16	0.00	0.00	226.42	79.62	0.13	10.54	317.87
Developmental Roads	0.00	0.00	0.00	0.00	141.87	2310.09	928.57	207.16	3587.69
Unclassified Roads	0.00	0.00	0.00	0.00	46.70	64.72	1679.28	647.58	2438.28
Total	61.29	764.99	2.87	133.98	22015.74	10397.75	6563.87	901.60	40842.09
NEW SOUTH WALES									
Freeways	0.00	111.89	0.00	15.45	0.00	0.00	0.00	0.00	127.34
State Highways	67.67	665.10	2.67	128.27	8691.95	324.38	597.98	0.00	10478.02
Trunk Roads	6.39	13.22	0.20	9.86	4468.32	1720.35	856.20	0.00	7074.54
Main Roads	65.65	839.21	0.00	141.70	8820.86	5899.01	2501.71	36.53	18304.67
Secondary Roads	12.42	186.70	0.00	30.61	52.65	0.33	0.00	4.52	287.23
Tourist Roads	0.00	9.13	0.00	0.50	278.91	89.39	1.06	24.22	403.21
Developmental Roads	0.00	0.00	0.00	0.00	150.56	2316.07	937.09	214.05	3617.77
Unclassified Roads	0.00	16.22	0.00	2.14	65.20	68.53	1679.28	647.58	2478.95
Total	152.13	1841.47	2.87	328.53	22528.45	10418.06	6573.32	926.90	42771.73

TYPES OF ROAD SURFACES AS AT 30 JUNE 1977

SCHEDULED ACCORDING TO DEPARTMENT'S DIVISIONS

DIVISION	Natural Surface		Gravel			r Sprayed I Sealed	Enrich Reseal	Slurry Seale	Diamo	ant Mi Tar Binde	Pre-	Cement Concrete	
ALL ROADS NEW SOUT	TH WAL	.ES							-				
Metropolitan	0.85	0.00	0.00	0.00	0.00	25.76	0.00	1.13	122.36	0.00	473.42	56.44	679.96
Parramatta (C. of C.)	3.88	8.20	12.72	0.00	2.32	351.67	0.00	0.00	41.08	0.00	429.70	34.40	883.97
Parramatta (Country)	21.73	3.51	36.80	0.00	0.00	241.84	0.00	0.00	1.17	0.00	108.51	0.00	413.56
Central Mtns. (C of C.)	20.57	1.25	7.59	0.00	0.00	86.64	0.00	0.00	19.43	0.00	33.61	0.00	169.09
Central Mtns. (Country)	4.26	5.79	573.66	2.01	7.80	1002.06	0.00	1.72	7.91	0.00	4.79	24.69	1634.69
Illawarra (C. of C.)	0.00	0.00	0.00	0.00	0.00	45.19	0.00	0.00	11.68	0.00	139.75	0.00	196.62
Illawarra (Country)	0.00	0.00	174.88	1.60	2.03	442.27	0.00	0.00	83.43	0.20	283.52	0.00	987.93
Hunter Valley	6.04	0.00	179.58	0.00	0.34	1234.19	0.00	0.84	31.84	2.67	239.72	5.01	1700.23
Lower North Coast	24.44	137.29	327.41	0.00	2.13	880.15	0.00	0.00	0.00	0.00	1.76	5.49	1378.67
North Eastern	1.35	0.00	408.02	0.00	0.00	1683.20	0.00	0.00	0.60	0.00	0.00	23.52	2116.69
Upper Northern	75.45	0.00	1062.57	1.40	32.97	1717.40	0.00	0.75	0.00	0.00	0.00	0.48	2891.02
North Western	7.92	48.89	1151.41	0.46	22.72	1914.42	0.00	1.83	1.04	0.00	0.53	0.12	3149.34
Central Western	54.86	114.43	1248.60	0.00	29.93	2542.88	31.68	0.00	1.36	0.00	1.49	0.30	4025.53
Central Northern	0.00	1971.34	2065.82	1.38	121.12	1297.38	290.03	0.00	0.00	0.00	0.00	0.00	5747.07
Murray Darling	661.10	4038.17	490.49	4.34	0.49	1123.00	29.77	0.00	0.00	0.00	0.00	0.00	6347.36
Central Murray	12.07	147.30	912.06	0.00	0.19	1917.75	0.00	0.00	0.00	0.00	0.00	0.00	2989.37
South Western	19.51	43.37	637.57	0.21	7.61	2949.00	10.95	7.42	0.00	0.00	20.08	0.00	3695.72
South Coast	11.26	44.12	424.56	2.55	5.56	945.28	0.00	0.00	0.00	0.00	50.41	0.32	1484.06
Southern	1.61	9.66	704.32	2.30	15.62	1483.24	1.93	0.00	6.63	0.00	54.18	1.36	2280.85
Total	926.90	6573.32	10418.06	16.25	250.83	21883.32	364.36	13.69	328.53	2.87	1841.47	152.13	42771.73

Bituminous work carried out by Councils on Urban and Rural Local Roads from funds available under the Roads Grants Act, 1974 as at 30 June 1977 and not accounted for in the above tabulations:

1. Length of initial seal									
2. Length of surfacing over primed or p	rimer seal	 	46.21 km						
3. Length of restoration surfacing		 	196.74 km						
4. Length of maintenance resurfacing		 	627.09 km						

ROAD TRAFFIC SURVEYS

Traffic Volume Surveys

Detailed traffic volume surveys were completed during the year for the Hunter Valley, Central Mountains, Upper Northern, North Western, Central Western and Southern Divisions, in the Colo Shire portion of the Parramatta Division, and in the urban areas of the Illawarra Division. A similar survey was commenced in the County of Cumberland. This survey will be completed during 1977-78.

Publication of Traffic Volume Data

The 1975 survey results for the County of Cumberland and data collected during the 1974 surveys of the Hunter Valley, Illawarra, North Eastern and South Western Divisions were published during the year. Survey results for Central Murray, Central Northern and Murray Darling Divisions were being printed at the end of June 1977.

Permanent and Semi-Permanent Counting Stations

During 1976 a total of 160 permanent counting stations were in operation. The 84 semi-permanent stations established in late 1975 and early 1976 to provide the necessary information on seasonal traffic variations on roads in Divisions being surveyed in 1976 were removed in January 1977. A total of 149 medium term (semi-

permanent and monthly count) stations were established in the County of Cumberland to provide information on seasonal patterns.

Of the 50 pulse channelling units received during the year, 17 have been installed at permanent counting stations equipped with inductive loop detectors. These electronic devices combine the counts from a number of traffic lanes thus reducing the amount of recording equipment at each site.

Annual Average Daily Traffic Volumes at permanent and semi-permanent counting stations for the calendar year 1976 are listed below. Corresponding volumes for 1975 and the percentage change are also shown.

Review of Traffic Volume Surveys

The review of all aspects of traffic counting, commenced in the latter half of 1975-76, continued. Items included in the review include the objectives of routine traffic surveys, the type of traffic data required by users, the organisation of field work associated with traffic surveys, traffic counting equipment, data processing techniques and the content and format of publications. The objective of the review is to ensure that the information required by users is obtained and disseminated as rapidly as possible without sacrificing accuracy.

TRAFFIC VOLUMES AT PERMANENT AND SEMI-PERMANENT COUNTING STATIONS FOR THE CALENDAR YEAR ENDED DECEMBER 1976

		Annual Daily			
Local Government Area	Location	1975	1976	% change	
F3 - Sydney-Newcastle I	reeway				
Hornsby	Berowra — north of Toll Plaza	18,440	18,700	+1	
F4 - Western Freeway					
Penrith	Regentville — east of Nepean River Bridge	12,180	13,230	+9	
F5 - South Western Free	way				
Campbelltown	Leumeah - north of Campbelltown Road Overbridge	22,300	23,040	+3	
F6 - Southern Freeway					
Wollongong	Waterfall-Bulli Pass Tollwork	8,460	8,490	0	
Wollongong	Gwynneville - at Gipps Street Overbridge	28,960	31,310	+8	
Wollongong	Unanderra, north of Northcliffe Drive Interchange	12,130	18,390	+ 52	
Bradfield Highway					
Sydney	Sydney Harbour Bridge	145,350	146,040	0	
Southern Cross Drive					
Botany	Eastlakes - at Gardeners Road Overpass	36,740	36,860	0	
SH1 - Princes Highway					
Rockdale	Tempe - bridge over Cooks River	51,100	49,720	-3	
Sutherland	Sylvania – bridge over Georges River	56,160	53,920	-4	
Sutherland	Loftus — south of MR393 (Farnell Avenue)	31,040	30,960	0	
Wollongong	Austinmer — north of Sublime Point Lookout	11,530*			
		3,730†	3,950	+6	
Wollongong	South of Smith Street	22,700	22,940	+1	
Wollongong	Figtree at bridge over American Creek	26,370	21,610	-18	
Kiama	Kiama — north of Marks Street	8,530	8,470	-1	
Shoalhaven	Falls Creek - 3.0 km north of MR312 (Huskisson				
	Road)	6,310	6.240	- 1	
Eurobodalla	Batemans Bay — bridge over Clyde River	5,710	5,330	-7	
Mumbulla	Bega - 0.6 km north of SH4 (Snowy Mountains High-				
	way)	1,520	1,550	+ 2	
Imlay	Eden - 3.2 km north of MR561 (Eden Road)	2,260	2,280	+1	
Imlay	Eden — south of Quarantine Bay Road	1,900	1,680	-12	
Imlay	Narrabarba – at Old Road Creek Bridge	970	1,120	+ 15	
	AD C. C. M. TAT A Call Dulli D. a. Mall. D				

^{*}Before opening the Waterfall-Bulli Pass Tollwork †After opening the Waterfall-Bulli Pass Tollwork

,		Annual Daily			
Local Government Area	Location	1975	1976	% change	
SH2 - Hume Highway					
Ashfield	Summer Hill — east of Bruce Street	22,840	23,350	+2	
Bankstown	Lansdowne – east of SH13 (Woodville Road)	39,200	38,650	-1	
Liverpool Camden	Cross Roads — east of Box Road Narellan — 2.4 km north of MR178 (Camden Road)	39,510 5,110	40,650 4,870	+3 -5	
Mittagong	3.2 km north of MR260 (Bowral Road)	10,790	10,370	-4 ·	
Mulwaree	Goulburn - 6.45 km east of Goulburn Post Office	22,122	9,600	-	
Mulwaree	Yarra - 3.2 km south of SH3 (Federal Highway)	4,140	4,310	+4	
Goodradigbee	Yass - 7.2 km west of MR278 (Tumut Road)	5,770	6,550	+ 14	
Gundagai Holbrook	Gundagai — 1.6 km south of MR279 Holbrook — 3.2 km north of MR331 (Jingellic Road)	2,820	4,040 3,090	+ 10	
	Holbrook – 3.2 km north of MR331 (Jingenic Road)	2,020	Oet, c	+ 10	
SH3 — Federal Highway Mulwaree	Yarra — 1.6 km south of SH2 (Hume Highway)	4,010	4,410	+ 10	
• • • • • • • • • • • • • • • • • • • •	•	1,010	.,	. 10	
SH4 – Snowy Mountains	= -		_		
Mumbulla	Bega – west of SH1 (Princes Highway)	780	820	+5	
Snowy River	East of MR286 (Cooma-Berridale Road)	2,430	2,530	+ 4 -2	
Snowy River	Adaminaby – 1.3 km west of Rosedale Road	820	800	-2	
SH5 - Great Western Hig	hway				
Ashfield	East of Dalhousie Street	40,100			
Parramatta	Clyde – at railway level crossing	50,050	48,580	-3	
Blacktown	Wallgrove – at Eastern Creek Bridge	30,690	30,530	-1	
Penrith City of Blue Mountains	Bridge over Nepean River	20,460	21,280 10,250	+4	
Turon	Wentworth Falls — 4.5 km east of railway station Meadow Flat — at Blaxland Shire boundary	4,920	4,860	-1	
*	indudov rut ut biandid dinie doundary	1,020	1,000	-	
SH6 – Mid Western High	•				
Bathurst	Bathurst - 0.7 km west of SH5 (Great Western High-		2 660		
Waugoola	way) Cowra – bridge over Waugoola Creek	1,960	2,660 2,120	+8	
Weddin	Marsden – east of SH17 (Newell Highway)	480	520	+8	
Bland	Wyalong – east of TR57 (Temora Road)	1,860	2,020	+9	
Hay	Hay - 2.4 km east of SH21 (Cobb Highway)	610	760	+ 25	
SH7 – Mitchell Highway					
Bathurst	Bathurst - at city boundary, 1.6 km west of Stewart				
Danidist	Street		3,980		
Canobolas	Orange - 2.4 km east of MR245 (Piesle Street)	4,480	4,650	+4	
Canobolas	Orange - 2.3 km north of TR61 (Condobolin Road)	2,220	2,260	+ 2	
Talbragar	Dubbo - 5.2 km east of SH17 (Newell Highway)	2,420	2,570	+6	
Talbragar	Dubbo - 3.2 km west of post office	250	3,350	0	
Darling	Bourke - 8.1 km south of TR68 (Mungindi Road)	250	250	0	
SH8 - Barrier Highway					
Cobar	Cobar - 1.9 km east of TR61 (Nymagee Road)	460	430	-7	
Western Division	Broken Hill - 25.8 km east of SH22 (Silver City High-	270	240	0	
	way)	370	340	-8	
SH9 - New England High					
Newcastle	Hexham — north of SH10 (Pacific Highway)	22,180	22,700	+ 2	
Maitland	East Maitland – at Wallis Creek Bridge		23,590		
Patrick Plains	Singleton — 4.8 km east of MR128 (Glendonbrook Road)	5,890	5,820	-1	
Scone	Scone – 3.0 km north of TR62 (Merriwa Road)	3,030	3,330		
Peel	Tamworth - 4.8 km south of SH11 (Oxley Highway)	2,480	2,530	+2	
Tamworth	Tamworth - at bridge over Peel River	•	25,380		
Cockburn	Tamworth - 1.0 km north of MR105 (Nundle Road)	4,340	4,560	+5	
Severn	Glen Innes – at Redbank Creek Bridge	1,910	2,140	+ 12	
SH10 - Pacific Highway					
Hornsby	Wahrooga - north of SH13 (Pennant Hills Road)	33,920	34,840	+3	
Hornsby	Berowra – north of Toll Plaza	5,040	4,780	-5	
Hornsby	Brooklyn – at Hawkesbury River Bridge	4,240	3.940	-7	
Gosford	Mt. White - south of Tollwork Interchange	3,670	3,410	-7	
Gosford	Narara — 1.3 km north of Manns Road		9,520		

		Annual	Average	
		Daily	Traffic	_
Local Government Area	Location	1975	1976	% change
SH10 - Pacific Highway -	- continued			
Lake Macquarie	Swansea - 3.2 km south of Lake Macquarie Bridge	10,770	11,480	+7
Lake Macquarie	Charlestown - south of Smart Street	37,330	36,190	-3
Newcastle	Tighes Hill - south of Ingall Street		21,540	
Newcastle	Hexham — at Hunter River Bridge	13,450	13,480	+1
Port Stephens	Karuah – at Karuah River Bridge	6,200	5,850	-6
Manning	Nabiac - bridge over Wollomba River	4,250	4,330	+2
Hastings	Blackmans Point — bridge over Hastings River	4,120	4,220	+ 2
Nambucca Ulmarra	Macksville - north of MR533 (Taylors Arm Road) South Grafton - 5.2 km south of SH12 (Gwydir High-	4,130	4,410	+7
2	way)	3,260	3,290	+1
Maclean	Harwood – on Harwood Bridge	3,720	3,840	+3
Tintenbar	Ballina - south of SH16 (Bruxner Highway)	3,170	3,120	-2
Tweed	Tweed Heads South - south of Kirkwood Road	13,960	15,270	+9
SH11 – Oxley Highway				
Hastings Cockburn	Wauchope - 3.2 km west of MR575 (Beechwood Road) Bendemeer - east of SH9 (New England Highway)	1,150	1,190 510	+ 3
Peel	Tamworth - 2.1 km south of MR130 (Quirindi Road)	1,810	1,970	+9
Coonabarabran	Coonabarabran — 0.3 km north of MR396 (Binnaway Road)	2.110	2,200	+4
orr	Roady	2,110	2,200	
SH12 – Gwydir Highway		400	440	
Severn	Gibraltar Range – at Tick Gate	420	440	+ 5 + 7
Boolooroo Boomi	Moree – 3.1 km east of SH17 (Newell Highway) Moree – at Tarren Creek Bridge	1,160	1,240 500	#/
SH13 - Woodville Road	Church Street and Pennant Hills Road			
Fairfield	Villawood – north of SH2 (Hume Highway)	33,910	33,580	-10
	Villawood - north of 3112 (frume ringhway)	00,010	00,000	
SH14 – Sturt Highway				_
Kyeamba	Alfred Town – east of MR384 (Kyeamba Road)	1,670	1,690	+1
Hay	Hay - 0.8 km west of SH21 (Cobb Highway)	1,070	1,200	+ 12
Wentworth	Monak – 17.7 km east of SH22 (Silver City Highway)	1,210	1,380	+ 14
SH15 - Barton Highway			0.840	
Goodradigbee	Yass — south of SH2 (Hume Highway)	3,420	3,540	+4
SH16 – Bruxner Highway	1			
Tintenbar	Ballina - 3.2 km west of SH10 (Pacific Highway)	2,690	2,800	+4
Gundurimba	McKees Hill Post Office	2,660	2,730	+ 3
Tenterfield	0.8 km west of SH9 (New England Highway)	280	270	-4
SH17 - Newell Highway				
Boolooroo	Camurra – 10.5 km north of MR232	1,410	1,640	+ 16
Boolooroo	Moree — south of DR1289 (Burrington Road)		1,920	
Coonabarabran	Coonabarabran — north of SH11 (Oxley Highway)		1,080	
Talbragar	Dubbo - 4.0 km north of MR206 (Dunedoo Road)	3,280	3,670	+ 12
Goobang	Parkes – 3.2 km north of MR233 (Parkes Road)	1,950	2,120	+9
Narrandera	Narrandera – 3.2 km east of TR80 (Griffen Road)	1,410	1,630	+ 16
Berrigan	Finley – 1.9 km south of SH20 (Riverina Highway)	1,950	2,230	+ 14
SH18 - Castlereagh High	-	•		
Gilgandra	Gilgandra – 6.5 km north of SH11 (Oxley Highway)		760	
Coonamble	Coonamble – 4 km south of MR205	600	650	+8
SH19 — Monaro Highway				
Monaro Monaro	Bunyan – bridge over Cooma Creek Nimmitabel – 1.3 km north of SH4 (Snowy Mountains	2,060	2,140	+4
,	Highway)	1,090	1,120	+3
Bombala	Bombala – 2.3 km north of Bombala River Bridge	620	700	+ 13
SH20 – Riverina Highwa	v			
Hume	Albury – 6.4 km west of SH2 (Hume Highway)	1,510	1,610	+7
Deniliquin	Deniliquin – 1.9 km east of SH 21 (Cobb Highway)	1,070	1,120	+5
<u>-</u>		,	, ,	
SH21 - Cobb Highway	Donillouin 5.0 km south of CU00 (Discours 18:-1			
Murray	Deniliquin - 5.0 km south of SH20 (Riverina High-	1,110	1,170	+5
	way)	1,110	1,1/0	. 0

Local Government Area	Location		nl Average y Traffic 1976	% change
				J
SH22 - Silver City Highw Western Division	ay Broken Hill — 9.7 km south of MR577 (Eyre Street)	260	290	+ 12
SH23 Newcastle	New Lambton Heights — north of Ridgeway Road		22,300	
SH25 – Illawarra Highwa	v			
Shellharbour	Macquarie Pass — east of Old South Road	2,100	2,210	+5
SH26 - Calga-Ourimbah I	Road		•	
Gosford	Peats Ridge - south of MR590 (Mangrove Mountain Road)	14,480	14,440	0
TR51 - Batemans Bay-Car	nberra			
Eurobodalla Yarrowlumla	Nelligen — 0.2 km north of bridge over Clyde River Bungendore — east of MR268 (Targo Road)	1,430	1,530 2,220	+7
TR52 - Crookwell-A.C.T.	Boundary			
Yarrowlumla	Sutton – north of SH3 (Federal Highway)		830	
TR54 - Goulburn-Bathurs				
Mulwaree Abercrombie	Goulburn - 8.7 km north of SH2 (Hume Highway) Perthville - north of MR252 (Burraga Road) Ilford -		990	-
TD 14	west of TR55 (Mudgee Road)		1,520	
TR55 — Marrangaroo-Muli Blaxland	•			
Diaxianu	Marrangaroo - north of SH5 (Great Western Highway)		3,330	
Cudgegong Liverpool Plains	Mudgee — 0.8 km south of railway level crossing Tambar Springs — north of DR1232 (Garrawilla Road)	1,960	2,100 200	+7
TR56 - Forbes-Yass				
Jemalong Boorowa	Forbes – at Lachlan River Bridge Boorowa – west of Kenyu Road		1,620 770	
TR57 - Nygau-Junee				
Condobolin	Condobolin — at Nerathong Creek Bridge, 2.7 km south of MR230		140	
TP#1 Orange Cohen	•			
TR61 — Orange-Cobar Canobolas	Orange at Canobolas Shire boundary	2,000	2,060	+3
Goobang	Parkes – at Billabong Creek Bridge	2,000	1,380	+3
TR62 - Scone-Coolah				
Coolah	Coolah – 0.5 km east of TR55 (Binnia Street)		390	
TR63 - Tamworth-Yetma				
Cockburn Yallaroi	Tamworth — 8.0 km north of Tamworth Post Office Warialda — 1.1 km north of SH12, Geddes Street		1,920 540	
TR65 - Ewingsdale-Lism	ore			
Byron	Bangalow – 6.4 km west of SH10 (Pacific Highway)	2,060	2,190	+6
TR72 - Willow Tree-Nari				
Murrurundi Namai	Willow Tree - 0.8 km north of SH9 (New England Highway Narrabri - 3.0 km west of SH17 (Newell Highway))	1,530 1,140	
Namoi TR73 — Inverell-Walcha	Narrabit - 5.0 kill west of 51117 (Newell Tighway)		1,140	
Macintyre	Gilgai north of MR135 (Guy Road)		1,180	
TR74 – Armidale-South (_,	
Dumaresq	Armidale — 5.0 km east of SH9 (New England High-			
-	way)		960	
Ulmarra	South Grafton — 1.0 km south of MR151 (Grafton-Coffs Harbour Road)	590	590	0
	:			
TR76 – Raleigh-Ebor Bellingen	Fernmount - 8.4 km west of SH10 (Pacific Highway)	1,970	1,940	-2

Local Government Area Location		Annual Average Daily Traffic 1975 1976		% change
TR77 – Gilgandra-Carbo			470	
Gilgandra	Gilgandra – east of SH11 (Oxley Highway)		470	
TR78 – Olympic Way Harden Mitchell	Wombat - north of MR379 (Murrumburrah Road)		1,470	
Mitchen	Wagga Wagga - 1.6 km north of MR240 (Coolamon Road)	2,200	2,320	+ 5
TR82 – Hamilton-Jesmon Newcastle	nd Hamilton – Donald Street at railway overbridge	18,430	18,920	+3
TR83 - Grafton-Wooden	bong			
Grafton Copmanhurst	Grafton — at bridge over Clarence River Koolkhan — 0.5 km south of MR150 (Copmanhurst	15,620	15,700	+ 0.5
Kyogle	Road) Kyogle — 0.8 km south of Boorabee Street	1,240 2,000	1,220 1,780	-2 -11
TR84 - Bowning-Temore	1			
Cootamundra	Wallendbeen – east of TR78 (Olympic Way)		1,180	
TR90 – The Bucketts Wa Stroud	Weismantels - south of MR101 (Dingaree Road)		670	
TR95 — Picton-Wollongo Wollondilly	ng Maldon – west of Railway Level Crossing 438	2,240	1.890	-16
MR101 - West Maitland	·	4,210	1,000	••
Port Stephens	Paterson – west of Woodville Road	1,330	1,390	+4
MR104 — East Maitland- Port Stephens	Raymond Terrace Raymond Terrace — south of MR601 (Seaham Road)	2,240	2,330	+4
MR105 — Scone-Nemingl Cockburn	Nemingha – 1.6 km east of SH9 (New England Highway)		930	
MR108 - Adamstown-No	ewcastle-Stockton-Nelson Bay			
Newcastle Port Stephens	Stockton – at bridge over Hunter River Williamtown – 0.3 km north of MR302 (Hexham	9,190	9,480	+3
MD111 Vhonninghot C	Road) reek-Tuncurry-Bulahdelah	•	6,500	
Stroud	Forster – at Wallis Lake Bridge		8,630	
MR127 — Narrabri-Walg Namoi	ett Narrabri — 9.6 km west of SH17 (Newell Highway)		930	
MR129 — Quirindi-Quam	bone			
Tamarang Coonabarabran	Quirindi — west of TR72 (Gunnedah Road) Coonabarabran — 0.8 km west of SH11 (Birch Street)		270 690	
MR130 — Tamworth-Qui	rindi			
Peel	Werris Creek — north of DR1275 (Werris Creek Station Road)		1,180	
MR134 — Bingara-Ashfor Bingara	rd Bingara – north of TR63 (Warialda Road)		340	
MR137 — Inverell-Bonsh	BW			
Ashford	Ashford – south of Duff Street		500	
MR147 — Woodburn-Liss Woodburn	more Woodburn – ferry over Richmond River	220	220	0
MR149 — Casino-Coraki- Woodburn	Buckendoon Coraki – ferry over Richmond River	150	140	-7
MR152 – Lawrence-Yam	ba	100	110	• •
Maclean	Bluff Point – ferry over Clarence River	300	340	+ 13

Local Government Area	Location		Average Traffic 1976	% change
Local Government Area	Location .	1070	20,0	, o
MR162 – Mona Vale Road				
Ryde	North Ryde - De Burghs Bridge over Lane Cove River	34,160	35,530	+4
Ku-ring-gai	Pymble - south of Orana Avenue	19,360	19,110	-1
MR164 - Spit Road Mosman	Spit Junction — west of Gurrigal Street		39.420	
Manly	The Spit - south of the Spit Bridge over Middle Har-			
	bour	53,200	52,630	-1
MR165 - Victoria Road				
Leichhardt Drummoyne	Rozelle – Glebe Island Bridge over Johnstons Bay Gladesville – south of bridge over Parramatta River	50,670 75,870	51,020 75,640	+1 0
MR166 — Huntleys Point-I		70,070	, 0,010	-
Lane Cove	Hunters Hill – Figtree Bridge over Lane Cove River	37,780	35,930	-5
MP167 Contachum Boo				
MR167 - Canterbury Road Canterbury	Wiley Park – east of Belemba Avenue	33,450	32,440	-3
Bankstown	Milperra – at bridge over Georges River	44,140	43,840	-1
MR172 - Oxford Street				
Woollahra	Woollahra - west of Ocean Street	47,130	45,780	-3
MR173 - Woolloomooloo	South Head			
Kings Cross	Kings Cross Tunnel		34,740	
MR177 - Appin Road				
Campbelltown	Leumeah – south of Leumeah Road	13,140	13,240	+1
Wollondilly	Appin – north of MR610 (Maldon Road)	7,160	6,930	-3
MR181 — McGraths Hill-S Baulkham Hills	ingleton Webbs Creek — ferry over Hawkesbury River	210	230	+ 10
Colo	St. Albans – at MacDonald River Bridge	210	140	+ 10
MR182 – Windsor-Sackvi	ile Reach			
Baulkham Hills	Sackville Reach - ferry over Hawkesbury River	360	370	+3
MR184 - Parramatta-Mou	int Victoria			
Colo	Kurrajong - east of MR519 (Colo Road)		5,720	
MR186 - Newcastle-Wara	atah West			
Newcastle Newcastle	Glebe – west of Henry Street Waratah – north of MR188, Lorna Street		13,770 17,270	
			17,270	
MR194 – General Holmes		F7 010	FC 050	•
Botany	Southern end of tunnel	57,210	56,850	-1
MR199 - Rocky Point Ros Sutherland	Taren Point Koad Taren Point — south of Captain Cook Bridge over			
Junerianu	Georges River	44,810	44,760	0
MR200 - Concord Road				
Ryde	Uhrs Point - north of Ryde Bridge over Parramatta			
	River	41,980	42,400	+1
MR206 — Dubbo-Dunedoe	Dubbo — 3.2 km east of SH17 (Newell Highway)		870	
Talbragar			6/0	
MR208 — Muswellbrook-l Cudgegong	Mudgee Budgee Budgee — west of MR214 (Cassilis Road)		570	
MR209 - Muswellbrook-			• •	
Muswellbrook	Denman – 1 km north of post office		1,100	
Manager Heard Dulong	·			
MR215 — liford-Bylong Rylstone	Ilford — 0.8 km east of TR55 (Mudgee Road)		470	
•				
MR217 — Wyong-Birming Lake Macquarie	ham Gardens Boolaroo — north of Cockle Creek Railway Station	17,010	16,980	0
Lake Macquarie	Morisset – at Dora Creek Bridge	4,490	5,000	+11

		Annual . Daily '	Traffic	g .l
Local Government Area	Location	1975	1976	% change
MR218 – Wollombi-Wes	t Maitland			
Cessnock Cessnock	Wollombi - 3 km east of MR181 (Singleton Road) Neath - at Railway Level Crossing 488P		370 8,060	
MR220 - Toronto-Brunk	erville-Cessnock-Glendonbrook			
Cessnock	Brunkerville — 1.6 km north of MR392 (Morisset Road)	3,780	3,830	· +1
MR223 — Lookout Road Newcastle	New Lambton Heights - north of Ridgeway Road	21,970	22,300	+2
Lake Macquarie Cessnock	Glendale – west of MR217 (Lake Road) Buchanan – west of Wallis Creek Bridge	17,630	16,590 6,910	-6
MR225 – Wisemans Ferr	y-Central Mangrove			
Baulkham Hills Gosford	Wisemans Ferry — ferry over Hawkesbury River Central Mangrove — west of MR590	530	550 850	+4
MR230 – Lake Cargelligo Condobolin	o-Condobolin Condobolin — west of TR57 (Girral Road)		1,380	
MR232 - Moree-Boonan	gar			
Boomi	Boomi — south of MR507 (Caloona Road)		130	
MR233 Gulgong-Parke Molong	8 Baldry — south of MR234 (Cumnock Road)		140	
MR239 - Henry Lawson	•			
Burrangong	Maimuru - at railway level crossing		1,130	
MR241 - Temora-Gunni Gunning	ng Dalton – south of MR251 (Narrawa Road)		250	
MR248 — Goulburn-Boo Crookwell	rowa Winduella — north of Grabben Gullen Road		130	
MR253 — Hartley-Bathus Blaxland	rst Hampton — north of MR558 (Oberon Road)		870	
MR256 - Goulburn-Obe Oberon	ron Oberon — west of MR253 (Carrington Avenue)		710	
	,		/10	
MR260 - Moss Vale-Mit Bowral	tagong Bowral — south of MR263 (Kangaloon Road)	6,270	6,130	-2
MR261 - Moss Vale-Bon	naderry			
Wingecarribee	Fitzroy Falls — at bridge over Yurrunga Creek	1,310	1,090	-17
MR270 — Queanbeyan-B Yarrowlumla	raidwood Captains Flat — at railway level crossing		420	
MR286 – Mount Koscius Snowy River	sko Road Jindabyne – 10.0 km west of Jindabyne	1,060	1,160	+9
MR295 - Five Islands Re		1,000	1,100	, 3
Wollongong	Cringila – east of Lake Avenue	35,910	34,840	-3
MR309 – Rydalmere Av Parramatta	enue-Aston Street Camellia — north of River Road	26,810	25,740	-4
MR310 - Cowra-Cudal				
Waugoola	Canowindra — 10.0 km south of MR237 (Blatchford Street)		770	
MR316 – Newcastle-Ma Newcastle	yfield West Wickham – north of Greenway Street		18,810	
MR325 - Belmont-Charl				
Lake Macquarie Lake Macquarie	Redhead — north of Collier Street Mount Hutton — south of Wilsons Road		5,060 4,950	
MR326 – Adamstown H Newcastle	leights-Mayfield Waratah – north of Kahibah Road		20,410	

Local Government Area	Location		Average Traffic 1976	% change
MR328 - Warringah Road				
Warringah	Forestville - west of Melwood Avenue	50,580	50,410	0
MR332 – Berowra Waters Hornsby	Road Berowra Waters — ferry over Berowra Creek	330	370	+ 12
MR335 - Wyong-Entrance	Road			
Wyong	The Entrance — north of MR335 (Wyong Road)		17,890	
MR336 — Gosford-The En Gosford	trance East Gosford — 0.3 km east of Russell Street	25,930	22,470	-13
MR346 — Tullamore-Peak Goobang	Hill Tullamore - north of MR348 (Peak Hill Road)		250	
MR349 — Gosford-Patonga Gosford	Woy Woy — at Woy Woy Creek Bridge		10,760	
MR357 — Boggabri-Manilla	B			
Manilla	Manilla - 3.2 km west of post office		260	
MR373 — Epping Road Hornsby	Epping - bridge over Terrys Creek	33,560	31,260	-7
MR377 - Boree-Condobol		,		
Jemalong	Eugowra — east of MR238 (Parkes Road)		630	
MR503 - Wilberforce-Sing	gleton			
Patrick Plains Colo	Howes Valley — 5.6 km north of post office Wilberforce — 0.8 km north of MR182 (Sackville Road)	1,310	1,360 3,420	+4
MR504 - Moirs Corner-A				
Gosford	Kincumber – 1.6 km west of Bridge Street		4,410	
MR513 - Bulli Pass-Broke Wollongong	ers Nose Bulli Pass — at County of Cumberland boundary	12.770	13,720	+7
MR522 - Shellharbour-Po		14.17.0		
Wollongong	Windang – at Lake Illawarra Bridge		29,150	
MR527 – Belmont-Cardiff	North Belmont — north of Belmont Crescent		7,720	
MR532 - Silverwater Roa	•		7,720	
Parramatta	Silverwater — north of Silverwater Bridge over Parramatta River	33,620	34,780	+3
MR556 – Gladstone-Smitl	ntown-Seven Oaks			
Macleay	Smithtown — bridge over Macleay River	1,230	1,290	+ 5
MR590 - Peats Ridge-Buc Gosford	Central Mangrove - north of MR225 (Central Mangrove		1 500	
MD004 Novemble Ade-	Road)		1,500	
MR604 — Newcastle-Adar Newcastle Newcastle	Broadmeadow – west of Samdon Street Adamstown – south of MR188 (Glebe Road)	10,790	23.610 10,790	0
Tourist Road No. 4043 - A	Alpine Way-Penderlea-Kosciusko National Park			
Snowy River	Kosciusko National Park – 18 km west of MR286 at entrance to park		550	
Tourist Road No. 4053 - C Coonabarabran	Coonabarabran-Gumin At Timor Rock		170	
Other than Main Roads				
Concord	Mortlake – ferry over Parramatta River	320	300	-6
Sydney Wakool	Pyrmont – bridge over Darling Harbour Speewa – ferry over Murray River	51,450 <i>7</i> 0	49,480 70	-4 0
Ulmarra	Ulmarra – ferry over Clarence River	40	40 10,140	0 +3
Bankstown	Padstow – at Alfords Point Bridge	9,800	10,140	73

APPENDIX No. 1

Statement of Receipts and Payments for the Five Years ended 30 June 1977

	1972/73 \$	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$
(A) COMMONWEALTH AID ROADS FUND					
Receipts					
Grants under the Commonwealth Aid Roads Act, 1969 —					
Schedule 2 — urban arterial roads	46,520,000	55,120,000			
Schedule 3 - rural arterial roads	14,780,000	17,520,000			
Schedule 4 - rural roads other than arterial roads	3,493,632	3,668,240			
Schedule 5 — planning and research	1,280,000	1,470,000			
Grants under the Transport (Planning and Research) Act, 1974 —					
Schedule 1			1,240,843	1,597,079	1,761,3
Grants under the National Roads Act, 1974 —	v .				
Schedule 1 — construction			27,930,000	39,930,000	47,152,20
Schedule 2 — maintenance			7,270,000	7,200,000	7,070,80
Schedule 3 — construction and maintenance of export and commercial roads				2 270 200	2 510 0
and commercial roads Grants under the Roads Grants Act, 1974 —				2,070,000	2,510,8
Schedule 2 — rural arterial roads			12,190,000	15,430,000	15,430,0
Schedule 3 — rural local roads			11,145,000	16,638,856	18,170,00
Schedule 4 — minor traffic engineering and road			11,143,000	10,000,000	10,110,0
safety improvements			249,998	3,025,133	
Schedule 5 – urban arterial roads			46,590,000	44,260,000	36,600,00
Schedule 6 — urban local roads			2,180,000	4,251,381	4,600,00
Total receipts	66,073,632	77,778,240	108,795,841	134,402,449	133,295,20
Balance brought forward	7 68 ,451	4,460,794	3,523,820	2,565,333:	5,004,1
Dalance Grought forward	_ 				
	66,842,083	82,239,034	112,319,661	136,967,782	138,299,33
Payments Commonwealth Aid Roads Act, 1969 — Construction and reconstruction of roads and bridges —					
Urban arterial roads — work by councils	2,027,734	1,538,239	330,822		
— work by department	31,622, 003	38,146,654	3,192,998		
Rural arterial roads — work by department	14,780,000	17,520,000			
Other rural roads — work by councils	3,291,758	3,008,477		•	
- work by department	62,559	520,662			
Construction and maintenance of unclassified roads					
in the unincorporated area of the Western					
Division	100 005	100 101			
Other rural roads — work by department	162,605 9,154,630	139,101 16,372,081			
Land acquisitions	1,280,000	1,470,000			
Transport (Planning and Research) Act, 1974 —	1,200,000	1,410,000			
Planning and research			974,218	1,639,295	2,084,4
National Roads Act. 1974 —			574,210	1,000,200	2,000,0
Construction and reconstruction of roads and bridges —					
——————————————————————————————————————	•		160,811	235,571	582,6
Work by councils			•	•	•
Work by department			26,091.822	35,635.056	48,353.1
			26,091,822 930.920	35,635,056 1,2 8 9,703	
Work by department			930,920	35,535,056 1,2 8 9,703	
Work by department Property acquisitions Maintenance and minor improvement of roads and					1,656,2
Work by department Property acquisitions Maintenance and minor improvement of roads and bridges —			930,920	1,289,703	1,656,29 83,6
Work by department Property acquisitions Maintenance and minor improvement of roads and bridges — Work by councils			930,920 31,276	1,2 89 ,703 62 ,816	48,353,11 1,656,29 83,6: 7,956,74 208,46
Work by department Property acquisitions Maintenance and minor improvement of roads and bridges — Work by councils Work by department			930,920 31,276 6,959,109	1,289,703 62,816 6,964,040	1,656,21 83,63 7,956,74

¹¹An amount of \$464,513 included in the balance carried forward at 30 June 1975 was refunded to the Commonwealth Government ¹An amount of \$1,160,410 included in the balance carried forward at 30 June 1976 was brought forward on 1 July 1976 in the Traffic Facilities Fund (see Appendix 1(E))

	1972/73 \$	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$
(A) COMMONWEALTH AID ROADS FUND — Payments —	continued				
Roads Grants Act, 1974 —					
Construction and reconstruction of roads and					
bridges —					
Rural arterial roads - works by councils			987,242	4,062,721	8,706,344
- work by department			10,733,912	10,774,279	6,130,195
Urban arterial roads work by councils			1,377,441	6,626,283	1,849,213
- work by department			29,393,441	25,835,582	25,187,493 4,612,527
Urban local roads — work by councils			1,789,562	4,148,318	4,612,327
Minor traffic engineering and road safety improvements —					
Work by councils		-	71,901	596,629	
Work by department			79,016	1,196,594	
Construction and maintenance of roads and bridges —			•		
Rural local roads work by councils			7,932,253	16,410,825	15,970,311
- work by department			193,983	772,955	1,198,053
Property acquisitions			14,027,195	10,096,136	8,155,602
Administrative expenses			2,605,831	2,497, 946 ,	2,282,229
Fotal payments	62,381,289	78,715,214	109,289,815	130,803,249	137,375,934
Balance carried forward	4,460,794	3,523,820	3,029,846	6,164,533	923,398
	66,842,083	82,239,034	112,319,561	136,967,782	138,299,332
B) COUNTY OF CUMBERLAND MAIN ROADS FUND (1) General Purposes					
i) General Purposes					
Receipts Motor vehicle taxation and fees	21,145,953	22,592,725	23,803,997	24,830,204	29,645,608
Charges on commercial vehicles under the Road Main-	21,175,855	22,392,723	23,000,001	24,000,204	20,043,000
tenance (Contribution) Act	3,663,187	3,938,967	4,153,899	4,053,555	3,961,932
evy upon councils under Section 11 of the Main Roads	0,000,00	0,000,000	1,100,000	1,000,000	-,00.,002
Act	311,130	167,237	155,903	104,468	56,559
Contributions from councils	335,506	124,066	318,245	674,269	745,267
Contributions from other departments and bodies	91,297	106,893	23,922	132,543	80,950
Other	1,115,947	742,407	1,416,865	1,449,671	1,055,575
Total receipts	26,663,020	27,672, 295	29,872,831	31,244,710	35,545,891
Balance brought forward	2,657,943	1,606,075	2,583,024	8,519,639	7,578,177
	29,320,963	29,278,370	32,455,855	39,764,349	43,124,068
Payments					
Construction and reconstruction of roads and bridges —					
Work by councils	456,120	355,925	1,873,912	1,905,483	3,104,962
Work by department	5,541,752	3,112,767	2,898,542	4,624,347	8,286,248
Property acquisitions	7,055,670	6,886,121	4,059,978	4,359,405	4,341,084
Maintenance and minor improvement of roads, bridges and ferries —					
Work by councils	990,764	1,187,230	1,379,062	2.068,714	2,818,906
Work by department	4,711,246	6,336,315	8,247,290	11,670,651	12,385,726
Purchase of land and buildings for works operations	542,848	725,498	334,849	481,541	223,655
Planning and research	169,831	130,527	393,446	229,718	425,457
		4,557,855	2,906,183	3,412,915	2,308,810
	3.762.122			277,688	228,981
Administrative expenses	3,762,122 88,684	44,417	227,944		
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses	88,684	•	•	·	
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses on State Loans		44,417 204,390	219,650	239,590	291,610
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses	88,684	•	•	239,590	·
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses on State Loans Interest on loans raised under Section 42A of the Main Roads Act	88,684 201,370	204,390	219,650	·	1,397,599
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses on State Loans Interest on loans raised under Section 42A of the Main Roads Act Other Total payments	88,684 201,370 694,857	204,390 683,920	219,650 764,836	239,590 1,009,322	1,397,5 99 328,614
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses on State Loans Interest on loans raised under Section 42A of the Main Roads Act Other Total payments Transfer to County of Cumberland Reserve for loan re-	88,684 201,370 694,857 244,016 24,459,280	204,390 683,920 230,263 24,455,228	219,650 764,836 213,900 23,519,612	239,590 1,009,322 221,915 30,501,289	1,397,5 99 328,614 36,141,652
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses on State Loans Interest on loans raised under Section 42A of the Main Roads Act Other Total payments Transfer to County of Cumberland Reserve for loan re- payments	88,684 201,370 694,857 244,016	204,390 683,920 230,263	219,650 764,836 213,900	239,590 1,009,322 221,915	1,397,5 99 328,614 36,141,652
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses on State Loans Interest on loans raised under Section 42A of the Main Roads Act Other Total payments Transfer to County of Cumberland Reserve for loan re- payments Transfer to and refund from special purposes accounts	88,684 201,370 694,857 244,016 24,459,280	204,390 683,920 230,263 24,455,228	219,650 764,836 213,900 23,519,612	239,590 1,009,322 221,915 30,501,289	1,397,599 328,614 36,141,652
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses on State Loans Interest on loans raised under Section 42A of the Main Roads Act Other Total payments Transfer to County of Cumberland Reserve for loan repayments Transfer to and refund from special purposes accounts in respect of finance for operating accounts, suspense	88,684 201,370 694,857 244,016 24,459,280 290,850	204,390 683,920 230,263 24,455,228 436,275	219,650 764,836 213,900 23,519,612 24,375	239,590 1,009,322 221,915 30,501,289 206,287	1,397,598 328,614 36,141,652 249,787
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses on State Loans Interest on loans raised under Section 42A of the Main Roads Act Other Total payments Transfer to County of Cumberland Reserve for loan re- payments Transfer to and refund from special purposes accounts in respect of finance for operating accounts, suspense accounts and reserve accounts	88,684 201,370 694,857 244,016 24,459,280 290,850 2,964,758	204,390 683,920 230,263 24,455,228 436,275	219,650 764,836 213,900 23,519,612 24,375 392,229	239,590 1,009,322 221,915 30,501,289 206,287	1,397,599 <u>328,614</u> 36,141,652 249,787
Administrative expenses Purchase of land and buildings for administration Interest, exchange, management and flotation expenses on State Loans Interest on loans raised under Section 42A of the Main Roads Act Other Total payments Transfer to County of Cumberland Reserve for loan re- payments Transfer to and refund from special purposes accounts in respect of finance for operating accounts, suspense	88,684 201,370 694,857 244,016 24,459,280 290,850	204,390 683,920 230,263 24,455,228 436,275	219,650 764,836 213,900 23,519,612 24,375	239,590 1,009,322 221,915 30,501,289 206,287	291,610 1,397,599 328,614 36,141,652 249,787 1,275,494 8,008,123 43,124,068

APPENDIX No. 1 — continued

Statement of Receipts and Payments for the Five Years ended 30 June 1977

	1972/73 \$	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$
(B) COUNTY OF CUMBERLAND MAIN ROADS FUND — co	ntinued				
(ii) Special Purposes					
Receipts					
Loan funds — State Government Loan funds — borrowings under Section 42A of the Main	750,000	800,000	2,000,000	5 000 000	1,000,000
Roads Act Sydney harbour bridge account for freeway	6,200,000	5,000,000	7,931,513	5,000,000	6,290,000
approaches Commonwealth/State government grant for relief of	334,315	6,560	3,038	6,711	354,230
unemployment Commonwealth government grant for traffic engineering and road safety improvement and access to Kings-	276,300	70,888 ⁺	226,047	146,270	
wood arms depot Contributions from other departments and bodies		190,000 18,566	29,047		
Total receipts Net transactions of operating accounts, suspense accounts and transfers to and from the general purposes account in respect of finance for reserve	7,560,615	5,944,238	10,189,645	5,152,981	7,644,230
accounts Balance brought forward	3,429,926 8,740,218	1,3 98,06 1 11,0 9 3,437	1,120,060 ⁻ 10,999,774	285,3 9 0 10,397,617	3,084,279 [.] 8,035,379
	19,730,759	18,435,736	20,069,359	15,835,988	12,595,330
_					
Payments					
Construction and reconstruction of roads and bridges — Work by department Maintenance and minor improvement of roads and bridges —	8,306,908	7,122,983	9,242,578	7,410,926	4,655,000
Work by councils	34,455	80,049	2,366		
Work by department	81, 48 0	9,427	209,696	160,254	
Payment of sinking fund — State Government loans Repayment of principal on loans raised under Section	17,000	18,320	19,390	21,120	62,760
42A of the Main Road Act	197,479	205,183	197,712	208,309	241,351
Total payments	8,637,322	7,435,962	9,671,742	7,800,609	4,959,111
Balance carried forward	11,093,437 19,730,759	10,999,774 18,435,736	10,397,617 20,069,359	8,035,379 15,835,988	7,636,219 12,595,330
(III) Reserve for Loan Repayments					
Receipts					
Transfer from — General purposes account	290,850	436,275	24,375	206,287	251,287
Special purposes account	283,977	651,383	624,896	708,521	2,155,271
Interest on investments	388,685	758,834	633,642	579,774	668,309
Discount on inscribed stock purchased below par		2,970			
Total receipts Balance brought forward —	963,512	1,849,462	1,282,913	1,494,582	3,034,867
Investments	1,298,200	2,578,200	4,798,200	5,978,200	7,478,200
Cash	742,076	425,588	55,050	157,963	152,545
	3,003,788	4,853,250	6,136,163	7,630,745	10,665,612
Payments					
Total payments Balance carried forward —	40-11	_	-		_
Investments	2,578,200	4,798,200	5,978,200	7,478,200	10,653,200
Cash	425,588	\$5,050	157,963	152,545	12,412
		, -			
	3,003,788	4,853,250	6,136,163	7,630,745	10,665,612

^{&#}x27;Debit

	1972/73	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$
(C) COUNTRY MAIN ROADS FUND				·	
(I) General Purposes					
Receipts					
Motor vehicle taxation and fees	53,268,646	57,006,498	59,702,711	61,124,099	73,107,313
Charges on commercial vehicles under the Road Main-	44.000.000	45 755 467	40.045.504	40.044.004	16 647 700
tenance (Contribution) Act State treasury advance — repayable	14,652,750	15,755,867	16,615,594	16,214,221 6,000,000	15,847,729
Contributions from councils	89,141	256.467	117,490	456,707	153,126
Contributions from other departments and bodies	159,488	199,202	180,354	160,793	403,094
Other	219,695	369,053	444,921	452,972	596,270
Total receipts	68,389,720	73,587,087	77,061,070	84,408,792	90,107,532
Balance brought forward	3,227,760	4,911,217	8,181,988	9,115,673	12,140,436
•	71,617,480	78,498,304	85,243,058	93,524,465	102,247,968
Payments					
Construction and reconstruction of					
roads and bridges — Work by councils	8,847,895	8,468,980	11,368,385	15,650,013	6,603,207
Work by department	19,165,984	18,449,227	18,908,835	18,056,021	11,509,875
Property acquisitions	1,779,912	2,396,484	2,568,141	2,034,533	2,156,537
Maintenance and minor improvement of roads, bridges					
and ferries —			40.400.400		40 447 570
Work by councils	9,213,809	9,657,163	12,437,685	14818,766 23,775,134	19,447,856
Work by department	13,193,488	17,457,449	20,505,230	23,775,134	28,667,181
the Western Division —					
Work by department					94,809
Purchase of land and buildings for works operations	309,628	181,702	440,306	451,010	383,695
Planning and research	223,616	16 8 ,183	607,883	357,718	647,720
Administrative expenses	6,187,337	6,625,803	5,922,760	6,087,460	7,897,882
Purchase of land and buildings for administration	484,358	195,676	324,619	853,576	317,004
Interest, exchange, management and flotation expenses on State Loans	949,127	959,949	971,626	1,305,457	1,811,387
Interest on loans raised under Section 42A of the Main	0.10,	333,513	2,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,
Roads Act	1,124,976	1,119,715	1,118,692	1,311,638	1,824,940
Other	469,305	473,675	864,465	754,852	465,057
Repayment of temporary advance from State Treasury					
Total payments	61,949,435	66,154,006	76,038,627	85,456,178	81,881,150
Transfer to country reserve for loan replayments	338,176	507,264		175,538	230,363
Transfer to and refund from special purposes accounts					
accounts and reserve accounts	4,418,652	3,655,046	88,758	4,247,687*	54, 69 1°
Balance carried forward	4,911,217	8,181,988	9,115,673	12,140,436	20,191,146
,	71,617,480	78,498,304	85,243,058	93,524,465	102,247,968
(ii) Special Purposes					
•					
Receipts	750 000	700 000		7 050 000	7 000 000
Loan funds — State Government Loan funds — borrowings under Section 42A of the Main	750,000	700,000		7,250,000	7,000,000
Roads Act	800,000		68,487	3,000,000	7,700,000
Commonwealth/State Government Grant for restoration	000,000		00,107	0,000,000	1,120,000
of flood damage		1,500,000	8,267,000	13,223,400	11,806,380
Commonwealth/State Government Grant for relief of					
unemployment	1,609,958	118,531	285,520	202,409	100,000
State Government Grant for upgrading of cane roads					300,000
Commonwealth government grant for traffic engineering and road safety improvement		310,000	12,953		
Contributions from other departments and bodies	400,000	315,848	420,683	825,916	430,000
Total receipts	3,559,958	2,944,379	9,054,643	24,501,725	27,336,380
Net transactions of operating accounts, suspense	0,000,000	2,044,010	0,004,040	24,501,725	27,000,000
accounts and transfers to and from the general pur-					
poses account in respect of finance for reserve					
accounts	6,866,697	4,828,500	2,808, 9 02 [,]	3,844,201	1,109,642
		12 022 702	47 682 750	14,918,717	11,033,031
Balance brought forward	6,438,302	13,033,703	17,083,758	1410101711	,,
Palance brought forward Credit	16,864,957	20,806,582	23,329,499	35,576,241	39,479,053

	1972/73 \$	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$
(C) COUNTRY MAIN ROADS FUND — continued (II) Special Purposes — continued			v 16 v m de 6e 6e		.
Payments					
Construction and reconstruction of roads and bridges —					
Work by councils	73,442	8,753*	16,631	36,043	574,791
Work by department Maintenance and minor improvement of roads and bridges —	1,658,453	968,161	193,521	10,000,000	14,790,439
Work by councils	1,509,812	308,640	6,104*		
Work by department	220,808	296,431	764,970	803,111	613,267
Restoration of flood damage Repayment of principal and payment of sinking fund —	404 000	1,763,522	7,027,441	13,181,743	12,184,292
State Government Loans Repayment of principal on loans raised under Section	181,823	192,811	201,524	215,263	180,553
42A of the Main Roads Act	186,916	202,012	212,799	307,050	517,144
Total payments	3,831,254	3,722,824	8,410,782	24,543,210	28,860,486
Balance carried forward	13,033,703	17,083,758	14,918,717	11,033,031	10,618,567
	16,864,957	20,806,582	23,329,499	35,576,241	39,479,053
(III) Reserve for Loan Repayments					
Receipts					
Transfer from —					
General purposes account	338,176	507,264		175,538	230,363
Special purposes account	49,249	49,069	49,069	49,249	49,249
Interest on investments Discount on inscribed stock purchased below par	73,874	165,560 540	211,988	212,758	248,676
Total receipts Balance brought forward —	461,2 9 9	722,433	261,057	437,545	528,288
Investments	545,000	1,145,000	2,280,000	2,560,000	2,930,000
Cash	575,180	436,479	23,912	4,969	72,514
	1,581,479	2,303,912	2,564,969	3,002,514	3,530,802
Payments					
Total payments Balance carried forward —	_	-	-	_	_
Investments	1,145,000 436,479	2,2 9 0,000 23,912	2,560,000 4,969	2,930,000 72,514	3,530,000 802
	1,581,479	2,303,912	2,564,969	3,002,514	3,530,802
(D) TOTAL STATE ROAD FUNDS					,
(I) General Purposes					
Receipts					
Motor vehicle taxation and fees Charges on commercial vehicles under the Road Main-	74,414,599	79,599,223	83,506,708	85,954,303	102,752,921
tenance (Contribution) Act Levy upon councils under Section 11 of the Main Roads	18,315,937	19,694,834	20,769,493	20,267,776	19,809,661
Act State treasury advance — repayable	311,130	167,237	155, 90 3 —	104,468 6,000,000	56,559 —
Contributions from councils	424,647	380,533	435,735	1,130,976	898,392
Contributions from other departments and bodies	250,785	306,095	204,276	293,336	484,044
Other	1,335,642	1,111,460	1,861,786	1,902,643	1,651,846
Total receipts Balance brought forward	95,052,740	101,259,382	106,833,901	115,653,502	125,653,423
Balance brought forward	5,885,703	6,517,292	10,765,012	17,635,312	19,718,613
	100,938,443	107,776,674	117,698,913	133,288,814	145,372,036

^{*}Credit

	1972/73 \$	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$
(D) TOTAL STATE ROAD FUNDS — continued	<u> </u>				
(I) General Purposes — continued Payments					
Construction and reconstruction of roads					•
and bridges					
Work by councils	9,304,015	8,824,905	13,242,297	17,555,496	9,708,169
Work by department	24,707,736	21,561,994	21,807,377	22,680,368	19,796,123
Property acquisitions	8,835,582	9,282,605	6,628,119	6,393,938	6,497,621
Maintenance and minor improvement of roads, bridges and ferries —					
Work by councils	10,204,573	10,844,393	13,816,767	16,887,480	22,266,762
Work by department	17,904,734	23,793,764	28,752,520	35,445,785	41,052,907
Maintenance and construction of unclassified roads in the Western Division —					
Work by department	-		_	-	94,809
Purchase of land and buildings for works operations	852,476	907,200	775,155	932,551	607,350
Planning and research	393,447	298,710	1,001,329	587,436	1,073,177
Administrative expenses	9,949,459	11,183,658	8,828,943	9,500,375 1,131,2 64	10,206,692 599,985
Purchase of land and buildings for administration Interest, exchange, management and flotation expenses	573,042	240,093	552,563	1,131,204	398,863
on State Loans	1,150,497	1,164,339	1,191,276	1,545,047	2,102,997
Interest on loans raised under Section 42A of the Main					
Roads Act	1,819,833	1,803,635	1,883,528	2,320, 96 0	3,222,539
Other Repayment of temporary advance from State Treasury	713,321	703, 93 8 	1,078,365	976,767	793,671
				445.053.407	440 000 000
Total payments	86,408,715 629,026	90,609,234 943,539	99,558,239 24,375	115,957,467 381,825	118,022,802 480,150
Transfer to reserve for loan repayments Transfer to and refund from special purposes accounts in respect of finance for operating accounts, suspense	629,025	5- 0,53 5	24,373	361,623	460,130
accounts and reserve accounts	7,383,410	5,458,889	480,987	2,769,091*	1,330,185*
Balance carried forward	6,517,292	10,765,012	17,635,312	19,718,613	28,199,269
	100,938,443	107,776,674	117,698,913	133,288,814	145,372,036
(II) Special purposes					
Receipts				A	
Loan funds — State government	1,500,000	1,500,000	2,000,000	7,250,000	8,000,000
Loan funds — borrowings under Section 42A of the Main Roads Act	7,000,000	5,000,000	8,000,000	8,000,000	13,990,000
Sydney Harbour Bridge account for freeway	004.045		2 626		254 220
approaches Commonwealth/State government grant for restoration	334,315	6,5 6 0	3,038	6,711	354,230
of flood damage	_	1,500,000	8,267,000	13,223,400	11,806,380
Commonwealth/State government grant for relief of	4 000 000	47.646	544 F63	240 670	100 000
unemployment	1,886,258	47,643	511,567	348,679	100,000 300,000
Chate any arranged great for uppredict of comp roads	_	_	_	_	300,000
State government grant for upgrading of cane roads Commonwealth government grant for traffic engineering and road safety improvement and access to Kings-	•				
• • • • •	_	500,000	42,000	-	_
Commonwealth government grant for traffic engineering and road safety improvement and access to Kings-	400,000	500,000 334,414	42,000 420,683	825,916	430,000
Commonwealth government grant for traffic engineering and road safety improvement and access to Kingswood arms depot	400,000 11,120,573	- *	•	825,916 29,654,706	430,000 34,980,610
Commonwealth government grant for traffic engineering and road safety improvement and access to Kingswood arms depot Contributions from other departments and bodies Total receipts Net transactions of operating accounts, suspense accounts and transfers to and from the general pur-		334,414	420,683		
Commonwealth government grant for traffic engineering and road safety improvement and access to Kingswood arms depot Contributions from other departments and bodies Total receipts Net transactions of operating accounts, suspense accounts and transfers to and from the general purposes account in respect of finance for reserve	11,120,573	334,414 8,888,617	420,683 19,244,288	29,654,706	34,980,610
Commonwealth government grant for traffic engineering and road safety improvement and access to Kingswood arms depot Contributions from other departments and bodies Total receipts Net transactions of operating accounts, suspense accounts and transfers to and from the general purposes account in respect of finance for reserve accounts	11,120,573	334,414 8,888,617 6,226,561	420,683 19,244,288 3,928,962	29,654,706 3,558,811	34,980,610 1,974,637
Commonwealth government grant for traffic engineering and road safety improvement and access to Kingswood arms depot Contributions from other departments and bodies Total receipts Net transactions of operating accounts, suspense accounts and transfers to and from the general purposes account in respect of finance for reserve	11,120,573	334,414 8,888,617	420,683 19,244,288	29,654,706	34,980,610

^{*}Credit

^{&#}x27;Debit

Includes \$2,990,000 of 1977/78 loan allocation received prior to 30 June 1977

APPENDIX No. 1 — continued

Statement of Receipts and Payments for the Five Years ended 30 June 1977

	1972/73 \$	1973/74 \$	1974/75 \$	1975/76 \$	1976/77 \$
(D) TOTAL STATE ROAD FUNDS — continued	····				
(II) Special Purposes — continued					
Payments					
Construction and reconstruction of roads					
and bridges -					
Work by councils	73,442	8,753*	16,631	36,043	574,791
Work by department	9,965,361	8,091,144	9,436,099	17,410,926	19,445,439
Maintenance and minor improvement of roads					
and bridges —	4 544 007	200 000	3,738*		
Work by department	1,544,267 302,288	388,689 305.858	974, 86 6	9 6 3,365	613,267
Restoration of flood damage	JV2,200 —	1,763,522	7.027,441	13,181,743	12,184,292
Repayment of principal and payment of sinking fund —		1,000,000	.,	,,.	
State government loans	198,823	211,131	220,914	236,383	243,313
Repayment of principal on loans raised under Section					
42A of the Main Roads Act	384,395	407,195	410,511	515,359	758,495
Total payments	12,468,576	11,158,786	18,082,524	32,343,819	33,819,597
Balance carried forward	24,127,140	28,083,532	25,316,334	19,068,410	18,254,786
	36,595,716	39,242,318	43,398,858	51,412,229	52,074,383
(E) TRAFFIC FACILITIES FUND			•		
Receipts					
Motor vehicle taxation					3,345,600
Road transport and traffic fund and public vehicles					0,040,000
fund					7,229,609
Ministry of transport vote					2,500,000
Grants under the National Roads Act, 1974 —					
Schedule 1 — construction					125,612
Schedule 2 — maintenance					529,191
Grants under the Roads Grants Act, 1974 — Schedule 4 — minor traffic engineering and road					•
safety improvements					3,391,778
Grants under the Transport (Planning and Research)					0,00 1,1 1
Act, 1974					24,168
Other					1,214,997
Total receipts					18,360,955
Balance brought forward			•		1,160,410
					19,521,365
					<u> </u>
Payments					
Maintenance and operations					11,984,140
Construction					6,174,086
Administrative expenses					1,125,972
Establishment of transferred Department of Motor					
Transport organisation Planning and research					200,916 36,251
•					19,521,365
Total payments					

Credit

¹The balance brought forward at 1 July 1976 was part of the balance carried forward at 30 June 1976 in the Commonwealth Aid Roads Fund (see Appendix 1(A))

APPENDIX No. 2 SYDNEY HARBOUR BRIDGE ACCOUNT

Statement of Income and Expenditure for the Five Years ended 30 June 1977

	. 1972/73 \$	1973/74 \$	1974/75 S	1975/76 \$	1976/77 \$
		······································			
Income					- 400 asa
Road tolls on vehicles	4,691,485 282,408	4,833,400 259,667	4,982,997 314,855	5,105,399 321,450	5,133,643 351,975
Omnibus passengers tolls	24,744	26,096	670	526	458
Net rent from tenanted properties	254,204	273,791	242,162	315,484	196,674
Interest on investments	· -	· -	-	225,000	282,500
Sale of assets					40
Total income	5,252,841	5,392,954	5,540,684	5,967,859	5,965,290
Expenditure					
Loan charges — State loans					
Interest	755,070	740,650	704,940	665,130	697,970
Exchange	3,430	3,250	2.240	2.660	_
Sinking fund	444,480	470,150	490,430	522,690	1 500
Management expenses	2,540 45,130	2,720 41,990	2,520 34,720	2,800 24,3 6 0	1,500 21,330
Flotation expenses	1,250,650	1,258,760	1,234,850	1,217,640	720,800
Loan charges - borrowings under Section 42A of the	1,230,630	1,230,790	1,234,630	1,217,040	720,000
Main Roads Act		-			
Interest	478, 95 2	465,312	466,830	461,261	498,629
Repayment on principal	183,251	191,715	165,292	111,819	116,823
Transfer to reserve for loan repayments	243,472	240,872	243,472	243,472	243,472
	905,675	897,899	875,594	816,552	858,924
Maintenance, lighting and cleaning bridge and	998,359	1,133,566	1,399,506	1,599,129	1,592,857
approaches Provision of traffic facilities	367,778	467,266	613,856	573,617	959,206
Cost of collecting road tolls	533,854	601,174	786,609	989,967	1,036,819
Alterations to toll gates and archways	9,369	4,233	13,197	13,257	_
Administrative expenses	197,136	242,226	354,358	415,545	375,390
Other				1,511	1,117
	2,106,496	2,448,465	3,167,526	3,593,026	3,965,389
Total expenditure	4,262,821	4,805,124	5,277,970	5,627,218	5,545,113
Excess of income over expenditure	990,020	787,830	262,714	340,641	420,176
Less — transfers to County of Cumberland main roads fund (special purposes account) for					
Warringah Freeway construction	334,315	6,560	3,038	6,711	354,230
Surplus for the year	655,705	781,270	259,676	333,930	65,946
Accumulated surplus brought forward	2,019,096	2,674,801	3,456,071	3,715,747	4,049,677
Accumulated surplus carried forward	2,674,801	3,456,071	3,715,747	4,049,677	4,115,623
*Of this sum, \$3,000,000 has been invested under Section	9 of the Sydney	Harbour Bridge	(Administration)	Act, 1932	
	ACCOUNT				
SYDNEY HARBOUR BRIDGE LOAN RESERVE	ACCOUNT				
				040 470	
Income Transfers from the Sydney Harbour Bridge account	243 472	240,872	243.472	293.9/2	243.472
Transfers from the Sydney Harbour Bridge account	243,472 98,582	240,872 124,678	243,472 173,338	243,472 215,7 6 4	
Transfers from the Sydney Harbour Bridge account Interest on investments	98,582	240,872 124,678 240	243,472 173,338 		275,618
Transfers from the Sydney Harbour Bridge account Interest on investments Discount received on inscribed stock	98,582	124,678 240	173,338	215,764	275,618 —
Transfers from the Sydney Harbour Bridge account Interest on investments Discount received on inscribed stock Total Income	98,582 — 342,054	124,678 240 365,790	173,338 — 416,810		275,618 - 519,090
Transfers from the Sydney Harbour Bridge account Interest on investments Discount received on inscribed stock	98,582 — 342,054 1,646,143	124,678 240 365,790 1,913,197	173,338	215,764 — 459,236	275,618 519,090 3,230,033
Transfers from the Sydney Harbour Bridge account Interest on investments Discount received on inscribed stock Total Income	98,582 — 342,054	124,678 240 365,790	173,338 416,810 2,278,987	215,764 — 459,236 2,770,797	275,618 519,090 3,230,033
Transfers from the Sydney Harbour Bridge account Interest on investments Discount received on inscribed stock Total Income	98,582 — 342,054 1,646,143	124,678 240 365,790 1,913,197	173,338 416,810 2,278,987	215,764 — 459,236 2,770,797	275,618 519,090 3,230,033
Transfers from the Sydney Harbour Bridge account Interest on investments Discount received on inscribed stock Total Income Balance brought forward	98,582 ————————————————————————————————————	124,678 240 365,790 1,913,197	173,338 — 416,810 2,278,987 2,695,797	215,764 — 459,236 2,770,797	275,618 519,090 3,230,033
Transfers from the Sydney Harbour Bridge account Interest on investments Discount received on inscribed stock Total Income Balance brought forward Expenditure	98,582 — 342,054 1,646,143 1,988,197 75,000	124,678 240 365,790 1,913,197	173,338 416,810 2,278,987 2,695,797	215,764 — 459,236 2,770,797	275,618 519,090 3,230,033
Transfers from the Sydney Harbour Bridge account Interest on investments	98,582 — 342,054 1,646,143 1,988,197 75,000 75,000	124,678 240 365,790 1,913,197 2,278,987	173,338 — 416,810 2,278,987 2,695,797 75,000° 75,000°	215,764 — 459,236 2,770,797 3,230,033	275,618
Transfers from the Sydney Harbour Bridge account Interest on investments Discount received on inscribed stock Total Income Balance brought forward Expenditure Premium and brokerage on stock purchased Conversion of loans	98,582 	124,678 240 365,790 1,913,197 2,278,987	173,338 	215,764 	275,618 519,090 3,230,033 3,749,123
Transfers from the Sydney Harbour Bridge account Interest on investments	98,582 — 342,054 1,646,143 1,988,197 75,000 75,000	124,678 240 365,790 1,913,197 2,278,987	173,338 — 416,810 2,278,987 2,695,797 75,000° 75,000°	215,764 — 459,236 2,770,797 3,230,033	243,472 275,618 519,090 3,230,033 3,749,123 3,749,123 3,749,123

APPENDIX No. 2 — continued SYDNEY HARBOUR BRIDGE ACCOUNT Balance Sheet as at 30 June 1977

Previous Year		s	s	\$
•	Funda Emplayed	•	•	
	Funds Employed Accumulated funds and reserves			
	Surpluses from bridge operations and other sources —			
26,681,034	Applied to capital works		27,035,264	
12,621,808	Applied to loan repayments		12,765,891	
4,049,677	Appropriation account		4,115,623	
3,230,033	Capital redemption reserve		3,749,123	
46,582,552				47,665,901
	Long term liabilities			
9,450,670	General loan account		9,423,410	
7,769,024	Loans raised under Section 42A of the Main Roads Act		7,652,201	
17,219,694				17,075,611
63,802,246	Total funds			64,741,512
03,002,240				04,141,512
	Represented by			
	Fixed assets			
19,060,785	Bridge construction	19,060,785		
26,109,073	Warringah Freeway approach	26,463,303		
8,977,270	Cahill Expressway	8,977,270		
2,011,340	Conversion of tram tracks	2,011,340		
364,068	Widening western approach	364,068		
56,522,536			56,876,766	
140,016	Furniture and equipment (less depreciation)		114,105	
56,662,552				56,990,871
	investments			
3,122,300	Securities of public authorities			3,672,300
0,122,000	Current assets			0,012,000
65,190	Stores and materials	66,942		
309,105	Sundry debtors and accrued interest	338,480	,	
4,045,055	Cash	4,037,333		
4,419,350			4,442,755	
	Less — current liabilities			
	Sundry creditors —			
136,728	Private lenders for interest	138,114		
265,228	Other	226,300		
		220,500		
401,956		,	364,414	
				4,078,341
63,802,246	•			64,741,512
				3 1,1 1 1,1

APPENDIX No. 3Summary of Loan Liabilities to the State Treasury as at 30 June 1977

	County of C	umberland M Fund	lain Roads	Country M		Develop- mental Roads Fund	
Particulars	Section 13(4C) of Main Roads Act, 1924 \$	Sydney- Newcastle Tollwork S	Waterfali to Buill Pass Tollwork \$	Section 21(3, 3A and 3B) of Main Roads Act, 1924 \$	Sydney- Newcastle Tollwork \$	Section 21(8) of Main Roads Act, 1924 \$	Total \$
Gross liability assumed: Prior to 1 July 1976	3,850,000 1,000,000	12,200,000	3,400,000	22,685,305 7,000,000	16,750,000	3,449,039	62,334,344 8,000,000
Total to 30 June 1977	4,850,000	12,200,000	3,400,000	29,685,305	16,750,000	3,449,039	70,334,344
Repayments of principal and sinking fund co Prior to 1 July 1976 By department By Commonwealth government under financial agreement and federal aid roads and works agreement	181,020 111,871	283,650	26,380 23,816		569,810 366,039	.,	6,360,913 2,663,672
Total prior to 1 July 1976	292,891	500,359	50,196	6,801,203	935,849	444,087	9,024,585
During 1976/77 By department By Commonwealth government under financial agreement	62,760 9,957	229,260	69,750 9,488	•	293,000 44,201		835,323 151,036
Total during 1976/77	72,717	262,454	79,238	224,759	337,201	9,990	986,359
To 30 June 1977 By department By Commonwealth government under financial agreement and federal aid roads and	243,780	ŕ	96,130	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•
works agreement	121,828		33,304		<u></u>	-	2,814,709
Total to 30 June 1977	365,608	762,814	129,434			-	10,010,945
Net liability at 30 June 1977	4,484,392	11,437,186	3,270,560	22,659,343	15,476,950	2,994,962	60,323,399

^{*}State Treasury has paid \$1,944,475 to 30 June 1977 in connection with the sinking fund liabilities.

APPENDIX No. 4 Summary of Loan Liabilities as at 30 June 1977

		County of Cumberland	Toli	lewcastle work		Sydney Harbour Bridge Account	
Particulars	Cumberland Main Roads Fund \$	Waterfall to Buill Pass Tollwork \$	County of Cumberland	Country \$	Country Main Roads Fund \$	Warringah Freeway \$	Total \$
LOAN BORROWINGS UNDER SECTIO	N 42A OF 1	THE MAIN	ROADS ACT				
Gross liability assumed: Prior to 1 July 1976	17,855,000 3,200,000			1,500,000	20,400,000 7,700,000	9,320,000	81,075,000 11,000,000
Total to 30 June 1977	21,055,000	27,600,000	4,500,000	1,500,000	28,100,000	9,320,000	92,075,000
Repayment of principal and sinking fund cor Prior to 1 July 1976	ntribution:						
Principal	1,788,100	1,383,412	80,000	197,746	1,296,543	1,550,976	6,296,776
Sinking fund	2,855,862	3,274,64	1 1,500,242	438,066	2,564,448	3,230,033	13,863,293
During 1976/77			•				
Principal	241,350	•	•	29,024	•	•	1,371,971
Sinking fund				49,249	=		2,889,642
Net interest on investment	245,192	281,140	8 141,971	36,282	212,394	275,617	1,192,602
Total to 30 June 1977	5,380,291	5,922,99	8 3,322,815	750,367	4,820,892	5,416,921	25,614,284
Net liability at 30 June 1977	15,674,709	21,677,00	2 1,177,185	749,633	23,279,108	3,903,079	66,460,716

APPENDIX No. 5 COMMONWEALTH AID ROADS FUND

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amour 1976/7
A) SCHEDULE 1 -	CONSTR	UCTION OF NATIONAL ROADS		<u></u>	\$
(I) COUNTY OF C (a) FREEWAYS					
•	_				
South Western Fre	•				
Campbelltown	F5 & 178	53.43 km to 55.04 km south of Sydney	Interchange	Department	48,88
	F5	Cross Roads to Campbelltown	Divided two lane carriageway	•	55,44
••	F5	•	Divided (wo latte carriageway	11	35,77
**	FO	MR178 to Nepean River,			2,721,78
	F5	55.04 to 61.15 km south of Sydney	11	**	2,721,70
11	ΓĐ	Glenlee (Minto) Rd, 57.5 km south of	Prostropped concrete bridge		268,93
	re	Sydney MR170 4 93 km pouth of Comphelitours	Prestressed concrete bridge	•	394,06
**	F5	MR179, 4.83 km south of Campbelltown	Prestressed concrete bridge underpass	s ,,	354,00
•	F5	Sydney water supply line,	Books and a survey builded		2,58
	CE	57.3 km south of Sydney	Prestressed concrete bridge	*1	2,50
н	F5	Twin Bridges at Menangle	Matata and a same as to be define		9.00
		over Nepean River	Reinforced concrete bridges	**	8,99
•	F5	South Western Freeway	Design by consultants	**	21,41
	F5	Bridge over F5 on MR179	**	11	17
Liverpool	F5	MR177, 39.7 km from Sydney	Underpass sub-structure	**	11
			Tot	al Freeways	3,522,39
		•			
(b) STATE HIGHW	AYS				
Hume Highway	_				
Camden	2	Northbound carriageway over MR178	Interchange structure	Department	298,60
**	2	Bridge over Nepean River at Camden	Northern approach	11	172,84
Liverpool	2 & 177	Cross Roads, Liverpool to bridge over F5	Reconstruction and widening and		
			intersection at Cross Roads	**	2,70
			Total Stat	ie Hlehweve	474,1
				e nigitaays	====
, ,				e nigitways	
• •	RDINARY I 178	6.44 km to 8.53 km	Reconstruction including		=-=-
• •	178	6.44 km to 8.53 km west of Campbelltown		Department	=-=-
(c) TRUNK AND O Camden 		6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2	Reconstruction including intersection with SH2	Department	149,2
Camden 	178 178	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan	Reconstruction including intersection with SH2 Reconstruction and dual carriageway	Department	149,2 341,4
Camden	178 178	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement	Department	149,2 341,4 289,0
Camden Liverpool (II) COUNTRY URI	178 178 177 & 2	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan	Reconstruction including intersection with SH2 Reconstruction and dual carriageway	Department	149,2 341,4 289,0
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW	178 178 177 & 2	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement	Department	149,2 341,4 289,0 779,7
Camden 	178 178 177 & 2	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary	Department	149,2 341,4 289,0
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway	178 178 177 & 2 BAN AREA AYS	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narelian The Cross Roads, Casula	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement	Department Main Roads Department	149,2 341,4 289,0 779,7
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden	178 178 177 & 2 5AN AREA AYS	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach	Department Main Roads	149,2 341,4 289,0 779,7
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden	178 178 177 & 2 BAN AREA AYS 2 2	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach	Department Main Roads Department	149,2 341,4 289,0 779,7
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High	178 178 177 & 2 BAN AREA AYS 2 2	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway	Department Main Roads Department	149,2 341,4 289,0 779,7
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden	178 178 177 & 2 BAN AREA AYS 2 2	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway	Department Main Roads Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock	178 178 177 & 2 BAN AREA AYS 2 2	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway	Department Main Roads Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High	178 178 177 & 2 BAN AREA AYS 2 2	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches	Department Main Roads Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock	178 178 177 & 2 BAN AREA AYS 2 2	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box	Department Main Roads Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock	178 178 177 & 2 BAN AREA AYS 2 2 2	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert	Department Main Roads Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock	178 178 177 & 2 BAN AREA AYS 2 2 2 IWay 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles	Department Main Roads Department Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock	178 178 177 & 2 BAN AREA AYS 2 2 2 Wway 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway	Department Main Roads Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland	178 178 177 & 2 BAN AREA AYS 2 2 2 IWay 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous	Department Main Roads Department Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland	178 178 177 & 2 BAN AREA AYS 2 2 2 Way 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing	Department Main Roads Department Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 1,1 827,0 131,1
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland	178 178 177 & 2 SAN AREA AYS 2 2 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 2.65 km to 4.68 km west of Maitland	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous	Department Main Roads Department Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 1,1 827,0 131,1
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland	178 178 177 & 2 BAN AREA AYS 2 2 2 Way 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 2.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St,	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing	Department Main Roads Department Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 1,1 827,0 131,1 132,2
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland	178 178 177 & 2 SAN AREA AYS 2 2 Way 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 2.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St, Maitland	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing Channellisation	Department Main Roads Department Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 1,1 827,0 131,1 132,2
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland	178 178 177 & 2 BAN AREA AYS 2 2 9 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 1.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St, Maitland 25.9 km to 28.2 km west of Newcastle	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing Channellisation Divided carriageway	Department Main Roads Department Department Council	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 1,1 827,0 131,1 132,2
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland	178 178 177 & 2 SAN AREA AYS 2 2 Way 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 2.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St, Maitland	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing Channellisation Divided carriageway Pavement strengthening and asphaltice	Department Main Roads Department Department Council	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 1,1 827,0 131,1 132,2 44,7 39,1
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland	178 178 177 & 2 BAN AREA AYS 2 2 9 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 1.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St, Maitland 25.9 km to 28.2 km west of Newcastle	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing Channellisation Divided carriageway	Department Main Roads Department Department Council	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 4,7 39,1 79,4
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland	178 178 177 & 2 BAN AREA AYS 2 2 9 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 1.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St, Maitland 25.9 km to 28.2 km west of Newcastle	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing Channellisation Divided carriageway Pavement strengthening and asphaltice	Department Main Roads Department Department Council	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 4,7 39,1 79,4
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland Newcastle	178 178 177 & 2 BAN AREA AYS 2 2 9 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 1.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St, Maitland 25.9 km to 28.2 km west of Newcastle	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing Channellisation Divided carriageway Pavement strengthening and asphaltice	Department Main Roads Department Department Council	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 4,7 39,1 79,4
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland Newcastle Pacific Highway	178 178 177 & 2 BAN AREA AYS 2 2 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 2.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St, Maitland 25.9 km to 28.2 km west of Newcastle 16.0 km to 18.7 km north of Newcastle	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing Channellisation Divided carriageway Pavement strengthening and asphaltic concrete surfacing	Department Main Roads Department Department Council Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 1,1 827,0 131,1 132,2 44,7
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland Newcastle Pacific Highway	178 178 177 & 2 BAN AREA AYS 2 2 9 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 1.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St, Maitland 25.9 km to 28.2 km west of Newcastle	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing Channellisation Divided carriageway Pavement strengthening and asphaltice	Department Main Roads Department Department Council	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 4,7 39,1 79,4
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland Newcastle	178 178 177 & 2 BAN AREA AYS 2 2 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 2.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St, Maitland 25.9 km to 28.2 km west of Newcastle 16.0 km to 18.7 km north of Newcastle	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing Channellisation Divided carriageway Pavement strengthening and asphaltic concrete surfacing	Department Main Roads Department Department Council Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 1,1 827,0 131,1 132,2 44,7 39,1 79,4
Camden Liverpool (II) COUNTRY URI (a) STATE HIGHW Hume Highway Camden New England High Greater Cessnock Maitland Newcastle Pacific Highway	178 178 177 & 2 BAN AREA AYS 2 2 9 9 9 9	6.44 km to 8.53 km west of Campbelltown F5 near Campbelltown to SH2 near Narellan The Cross Roads, Casula Bridge over Nepean River at Camden 3.2 km to 4.5 km south of Camden Culvert at Redhouse Creek, 23.8 km south of Singleton Redhouse Creek, 23.8 km south of Singleton Four mile creek, 7.7 km south of Maitland 25.9 km to 28.16 km west of Newcastle 8.2 km to 10.0 km west of Maitland 2.65 km to 4.68 km west of Maitland Intersection of Ledsam St and Regent St, Maitland 25.9 km to 28.2 km west of Newcastle 16.0 km to 18.7 km north of Newcastle	Reconstruction including intersection with SH2 Reconstruction and dual carriageway Restoration of failed pavement Total Trunk and Ordinary Southern approach Dual carriageway Approaches Multi cell reinforced concrete box culvert Abutment piles Dual carriageway Reconstruction and bituminous surfacing Channellisation Divided carriageway Pavement strengthening and asphaltic concrete surfacing Reinforced concrete bridge	Department Main Roads Department Department Council Department	149,2 341,4 289,0 779,7 143,0 7,8 150,8 1,4 1,1 827,0 131,1 132,2 44,7 39,1 79,4 1,258,4

APPENDIX No. 5 — continued COMMONWEALTH AID ROADS FUND

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(A) SCHEDULE 1	- CONSTI	RUCTION OF NATIONAL ROADS continu	ed		\$
(III) COUNTRY RU	RAL AREA	L			
(a) FREEWAYS					
Sydney-Newcastk	e Freeway				
Gostord	F3	38 km to 64 km north of Sydney	Asphaltic concrete surfacing	Department	1,297,762
11	F3	Bridge over Mooney Mooney Creek, south			
		of Gosford	Foundation test boring	**	1,674
Vyong	F3	Bridge at 89.01 km north of Sydney	**	•	230
**	F3	Bridge over Wyong River	11	**	5,857
*1	F3	Bridge over Sparks Rd	**		3,431
*1	F3	Bridge over Buddonderry Creek	11	**	485
11	F3	Sparks Rd to Great North Railway at			
		Doyalson	D	**	8,837
n	F3 -	Wyee Link Road Bridge	* **	"	9,090
••	F3	Wallarah Creek Bridge	P	**	1,755
"	F3	Ourimbah to Doyalson and Wyee	Freeway location investigation	•1	1,009
11	F3	Bridge over Cobbs Rd	Foundation test boring	11	1,697
	F3	Bridges over Deep Creek, 89.35 km and			
		89.50 km north of Sydney		11	1,493
**	F3	Bridge over MR217 at Wyong	**	••	924
**	F3	Bridge over St. Johns Rd		,,	1,415
,,	F3	Cobbs Rd to Sparks Rd — cut and fill			
		locations	•	11	12,130
**	F3	Bridge over Great Northern Railway Line		11	6,97
				1,354,560	
South Western Fr	•eway				
Mittagong	F5	Yerrinbool to Aylmerton	Divided two lane carriageway	Department	1,551,363
,,	F5	Yanderra to Yerrinbool	1)	**	5,498,78
	F5	Twin bridges over southern railway and			
		south bound loading ramp near Yanderra	Construction of piers	**	102,334
**			Divided two lane carriageway		
**	F5	Yerrinbool to Aylmerton	Divided (wo lane carriageway		44,35
	F5 F5	- · · ·		11	-
Nollondilly		Yerrinbool to Aylmerton	• •		•
Vollandilly	F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool	• •		769,821
•	F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney		"	769,82
Wollondilly 	F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra)		"	769,820 1,244,486
,,	F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to	Earthworks, drainage and structures	u	769,820 1,244,486
•	F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney	Earthworks, drainage and structures	u	769,820 1,244,480 367,140
"	F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney	Earthworks, drainage and structures Dual two lane carriageway	n n	769,826 1,244,486 367,146
,,	F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south	Earthworks, drainage and structures Dual two lane carriageway	n n	769,820 1,244,480 367,140 191,799
n n	F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges	0 0 0	769,820 1,244,480 367,140 191,799
"	F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepean	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges	0 0 0	769,826 1,244,486 367,146 191,799 6,782
n n	F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges	0 0 0	769,826 1,244,486 367,146 191,799 6,782
n n	F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepean River	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges	0 0 0	769,826 1,244,486 367,146 191,796 6,786
n " "	F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepear River Avon Dam Rd over F5, 87.4 km south of	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges	0 0 0 0	769,826 1,244,486 367,146 191,799 6,789 62,369
n n n	F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepear River Avon Dam Rd over F5, 87.4 km south of Goulburn	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges	0 0 0 0	769,826 1,244,486 367,146 191,799 6,789 62,369
" " " " " " " " " " " " " " " " " " "	F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepear River Avon Dam Rd over F5, 87.4 km south of Goulburn Moreton Park Rd over F5, 69.2 km south of Sydney	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges Watermains bridge (Bridge No. 516)	" " " " " "	769,821 1,244,486 367,141 191,79 6,78 62,36
n n n	F5 F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepear River Avon Dam Rd over F5, 87.4 km south of Goulburn Moreton Park Rd over F5, 69.2 km south	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges Watermains bridge (Bridge No. 516)	" " " " " "	769,826 1,244,486 367,146 191,796 6,786 62,366 2,49
	F5 F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepear River Avon Dam Rd over F5, 87.4 km south of Goulburn Moreton Park Rd over F5, 69.2 km south of Sydney Menangle to Douglas Park, 61.15 km to	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges Watermains bridge (Bridge No. 516) Deviation bridge Divided two lane carriageway	" " " " " " " "	769,826 1,244,486 367,146 191,796 6,786 62,366 2,49
n n n	F5 F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepear River Avon Dam Rd over F5, 87.4 km south of Goulburn Moreton Park Rd over F5, 69.2 km south of Sydney Menangle to Douglas Park, 61.15 km to 70.48 km south of Sydney Douglas Park to Pheasants Nest, 70.48 km	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges Watermains bridge (Bridge No. 516) Deviation bridge Divided two lane carriageway	" " " " " " " "	769,821 1,244,486 367,141 191,79 6,78 62,36 2,49 17,67 3,000,86
	F5 F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepear River Avon Dam Rd over F5, 87.4 km south of Goulburn Moreton Park Rd over F5, 69.2 km south of Sydney Menangle to Douglas Park, 61.15 km to 70.48 km south of Sydney Douglas Park to Pheasants Nest, 70.48 km to 76.6 km south of Sydney	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges Watermains bridge (Bridge No. 516) Deviation bridge Divided two lane carriageway		769,821 1,244,486 367,141 191,79: 6,78: 62,36 2,49 17,67 3,000,86 841,87
	F5 F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepear River Avon Dam Rd over F5, 87.4 km south of Goulburn Moreton Park Rd over F5, 69.2 km south of Sydney Menangle to Douglas Park, 61.15 km to 70.48 km south of Sydney Douglas Park to Pheasants Nest, 70.48 km to 76.6 km south of Sydney Nepean River to Douglas Park	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges Watermains bridge (Bridge No. 516) Deviation bridge Divided two lane carriageway Design by consultants		769,821 1,244,486 367,141 191,79 6,78 62,36 2,49 17,67 3,000,86 841,87
	F5 F5 F5 F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepean River Avon Dam Rd over F5, 87.4 km south of Goulburn Moreton Park Rd over F5, 69.2 km south of Sydney Menangle to Douglas Park, 61.15 km to 70.48 km south of Sydney Douglas Park to Pheasants Nest, 70.48 km to 76.6 km south of Sydney Nepean River to Douglas Park Pheasants Nest Bridge over Nepean River	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges Watermains bridge (Bridge No. 516) Deviation bridge Divided two lane carriageway Design by consultants		769,826 1,244,486 367,146 191,795 6,785 62,365 2,496 17,675 3,000,886 841,875
	F5 F5 F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepean River Avon Dam Rd over F5, 87.4 km south of Goulburn Moreton Park Rd over F5, 69.2 km south of Sydney Menangle to Douglas Park, 61.15 km to 70.48 km south of Sydney Douglas Park to Pheasants Nest, 70.48 km to 76.6 km south of Sydney Nepean River to Douglas Park Pheasants Nest Bridge over Nepean River	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges Watermains bridge (Bridge No. 516) Deviation bridge Divided two lane carriageway Design by consultants Foundation test boring		769,826 1,244,486 367,146 191,795 6,785 62,365 2,490 17,675 3,000,886 841,875 111,82
	F5 F5 F5 F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepean River Avon Dam Rd over F5, 87.4 km south of Goulburn Moreton Park Rd over F5, 69.2 km south of Sydney Menangle to Douglas Park, 61.15 km to 70.48 km south of Sydney Douglas Park to Pheasants Nest, 70.48 km to 76.6 km south of Sydney Nepean River to Douglas Park Pheasants Nest Bridge over Nepean River	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges Watermains bridge (Bridge No. 516) Deviation bridge Divided two lane carriageway Design by consultants		44,355 769,828 1,244,486 367,140 191,795 6,782 62,363 2,490 17,675 3,000,864 841,876 11,82 153,43
	F5 F5 F5 F5 F5 F5 F5 F5 F5	Yerrinbool to Aylmerton Yanderra to Yerrinbool 86.7 km to 89.6 km south of Sydney (Pheasants Nest to Yanderra) 77.3 km to 102.7 km Pheasants Nest to Yanderra, south of Sydney Moreton Park Rd over F5, 69.2 km south of Sydney Twin bridges at Menangle over Nepean River Twin bridges at Douglas Park over Nepean River Avon Dam Rd over F5, 87.4 km south of Goulburn Moreton Park Rd over F5, 69.2 km south of Sydney Menangle to Douglas Park, 61.15 km to 70.48 km south of Sydney Douglas Park to Pheasants Nest, 70.48 km to 76.6 km south of Sydney Nepean River to Douglas Park Pheasants Nest Bridge over Nepean River	Earthworks, drainage and structures Dual two lane carriageway Deviation bridge Reinforced concrete bridges Watermains bridge (Bridge No. 516) Deviation bridge Divided two lane carriageway Design by consultants Foundation test boring Divided dual carriageway		769,826 1,244,486 367,146 191,795 6,785 62,365 2,490 17,675 3,000,886 841,875 111,82

APPENDIX No. 5 — continued COMMONWEALTH AID ROADS FUND Grants under the National Roads Act on Construction a

ity, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amou 1976/
A) SCHEDULE 1 -	CONSTR	UCTION OF NATIONAL ROADS - continu	ed		\$
H) COUNTRY RUF					
b) STATE HIGHW					
•					
lume Highway			·		
libury	2	59.45 km to 60.8 km south of Holbrook	Reconstruction and bituminous		
			surfacing	Department	416.8
amden	2	Cowper Dr, Camden to MR259	Kerb and gutter and sidestrip sealing	Council	3,3
ioodradigbee	2	Bridge over Connors Creek,		.	
		35.2 km south of Yass	Approaches	Department	356,0
**	2	Yass to Bowning, 5.6 km to			
		12.1 km south of Yass	Divided two lane carriageways	17	812,0
11	2	Connors Creek, 35.4 km south of Yass	Demolition of old bridge	**	3,6
**	2	Derringullen Creek, 7.6 km south of Yass	Reinforced concrete girder bridge	11	309,4
n	2	Connors Creek, 35.4 km south of Yass	Prestressed concrete bridge	10	1
ioulburn City	2	Fitzroy Bridge over Mulwaree Ponds			
		at North Goulburn	Reinforced concrete bridge	11	29,
**	2	Bradley St to Clinton St, Goulburn	Restoration of cement concrete		
			pavement	Council	94,
.,	2	82.1 km to 85.6 km south of Mittagong	Dual carriageway	Department	1,272,
	2	Mundy St to Mary St, Goulburn	Reconstruction and bituminous		
			surfacing	Council	112,
,,	2	Intersection of Clinton, Auburn and			
		Cowper Sts, Goulburn	Chanellisation	**	29,
••	2	1.12 to 3.2 km south of Goulburn	Reconstruction and		
		(Clinton St to Finley Rd)	bituminous surfacing	**	44,
11	2	Main Southern Railway, 2.3 km	•		
,,		north of Goulburn	Overbridge	Department	25,
undagai	2	28.0 km to 37.0 km south of Gundagai	Reconstruction	.,	411,
	2	Selected lengths, 34.75 km north	Reconstruction and	.,	ĺ
••	_	to 36.97 km south of Gundagai	bituminous surfacing	**	546,
	2	84.3 km to 95.3 km south of Gundagai	Bituminous concrete surfacing of	,,	• ,
**	-	orio nii to oo o nii oo on o oo o	pavement		176,
	2	Bridge over Murrumbidgee River at	pavomon	**	
••	•	Gundagai	Approaches		2,724.
	2	Jones Creek, 101.5 km south of Yass	Twin prestressed concrete bridges	11	
**	2	Murrumbidgee River at Gundagai	Reinforced concrete bridge	**	678.
**	2	Jones Creek at Sheridan St, Gundagai	Reinforced concrete steel deck bridge	1.1	80.
**	2	Sheridan St, Gundagai	Tunnel over northbound unloading	*1	00,
**	٤.	Sheridan St. Gondagar	ramp		427
	2	Cooneys Creek to North Gundagai	Investigation and preliminary	**	767
*1		Cooneys Creek to North Gundagan			5
	•	Sigh Bives 45 Okm south of Coulhuse	engineering	**	326
Sunning	2	Fish River, 45.0 km south of Goulburn	Prestressed concrete girder bridge	**	320
**	2	23.7 km to 66.7 km south of Goulburn	Widening and improvements of	_	425
		Politica and Plant Bloom 45 Alice	formation and pavement reconstruction	n ,,	435
**	2	Bridge over Fish River, 45.0 km	A		
1-15		south of Goulburn	Approaches	••	248
łoibrook	2 & 284	Little Billabong, 43.9 km to 44.9 km	The second secon		
	_	south of Tarcutta	Improvement to intersection	**	32
lume	2	56.0 km to 59.7 km south of Holbrook	Reconstruction and bituminous		
			surfacing	**	247
11	2	Main Southern Line, 54.1 km south of			
		Holbrook near Ettamogah	Railway overbridge	11	1
**	2	Crookwell railway line at North Goulburn	Railway overpass	**	
(yeamba	2	3.6 km to 20.4 km south of Tarcutta	Second carriageway	**	775
**	2	Bridge over Tarcutta Creek,	Formation and widening of flood	•	
		0.6 km south of Tarcutta	channel and levee banks	11	12
••	2	Comatawa Creek, 4,0 km south of			
		Tarcutta	Reinforced concrete steel deck bridge	,,	55
Mittagong	2	117 km to 123.1 km south of Sydney	Divided carriageway		32
.,	2	126.1 km to 128.8 km south of Sydney	Reconstruction of pavement and		
		, ,	overtaking lane	.,	5
	2 & 260	123.8 km south of Sydney	Improvement of intersection	**	_
11	2	Mittagong to Exeter Rd, 0 km to	Investigation of Mittagong and Berrima		
"	-	31.5 km south of Mittagong	by-pass and relocation		12
	2	56.5 km to 66.6 km south of Mittagong	Divided two lane carriageways	**	, .
Mulwaree		- 55.5 Am to 55.5 Am South of Mittagolig		*1	
Mulwaree 	2	78.4 km to 81.1 km south of Mittagong	Reconstruction and bituminous		

APPENDIX No. 5 — continued COMMONWEALTH AID ROADS FUND

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/77
(A) SCHEDULE 1 -	- CONST	RUCTION OF NATIONAL ROADS - continu	ued .		\$
(III) COUNTRY RU	RAL ARE	A continued			
(b) STATE HIGHW	AYS — co	ontinued			
	4				
Hume Highway — (Mulwaree	continu e c 2	5 67.1 km to 74.7 km south of Mittagong		Department	12.020
MUIWAI OO	2	9 km south of Goulburn	Establishment of rest area at Yarra	",	4,079
 Wingecarribee	2	Bridge over Medway Rivulet,		••	.,
	-	142.8 km to 143.39 km south of Sydney	Approaches	11	3,653
u'	2	Hanging Rock-Uringalla Creek, 165.1 km			
		to 165.9 km south of Sydney	Dual carriageway	**	1,567,081
11	2	154.3 km to 164.8 km south of Sydney	D		2,954,7 9 9
н	2	Main Southern Railway, Picton	Pedestrian overbridge	14	248
Wollondilly	2	88.87 km to 96.6 km south of Sydney	Reconstruction and asphaltic		4 4 5 6
		0-1	concrete surfacing	**	1,159
н	2	Selected lengths, Camden to Mittagong, 62.76 km south of Camden	Heavy patching of damaged payament		266,977
	2		Heavy patching of damaged pavement	**	200,977
*1	2	Selected lengths, Mittagong to 46.7 km south of Mittagong			380
	2	74 km to 75.6 km south of Sydney	 Reconstruction and	••	-
11	-	14 km to 70% km Godinoi Oydnoy	bituminous surfacing		77,417
	2	76.4 km to 78.4 km south of Sydney		19	1,887,642
"	2	Southern approach to Picton Sub-way	Improvement to alignment		221,055
Yass	2	Yass River (Hume Bridge) at Yass	Steel girder and reinforced		
•			concrete bridge	••	528,047
**	2	Hume Bridge over Yass River at Yass	Supply and delivery of steel piles		3,204
	2	Bridge over Yass River, 88.2 km to			
		89.3 km south of Goulburn	Approaches	•	90,661
**	2	Hume Bridge over Yass River at Yass	Design by consultants	**	99
					18,365,826
P. d					
Federal Highway	•	Collegants & C. T. bonden	Consider study to soview looption	Department	471
Gunning Mulwaree	3	Collector to A.C.T. border 22.2 km to 80.0 km south of Goulburn	Corridor study to review location Strengthening and heavy patching	•	140,194
	3 3	14.3 km to 22.2 km south of Goulburn	Second carriageway	11 H	1,170,009
**	v	14.5 Kill to ac. c Kill document a constant	Cooping out magency	,,	1,310,674
New England High	way	Labour Creak 07 00 km somb of			
Cockburn	9	Laheys Creek, 27.92 km north of Tamworth	3 cell reinforced concrete box culvert	Department	167
	9	62.4 km to 69.4 km north of Tamworth	Provision of slow vehicle lane	Department	
"	9	OE.4 KIII 10 03.4 KIII HOLUTOT TEINWOLUT	for northbound traffic	**	299,775
	9	24.9 km to 29.9 km north of Tamworth	Reconstruction to provide	,,	,
*1	•		additional carriageways	11	845,75
,,	9	4.84 km to 16.6 km north of Tamworth	Asphaltic concrete surfacing		
			and widening and culvert		
			extension and widening	11	77,516
,,,	9	31.91 km to 33.8 km north of Tamworth	Slow vehicle lane	**	56,760
**	9	33.8 km to 36.2 km north of Tamworth	Widening, reconstruction and		400 000
_	_	65 41	bituminous surfacing of climbing lane	*1	123,383 19,600
Denman	9	35.4 km north of Singleton	Scour correction		18,000
***	9	38.9 km to 45.8 km north of Singleton	Reconstruction and bituminous surfacing		301,080
Dumaresq	9	7.05 km to 10.99 km north of Armidale	•		9,473
Glen Innes	9	2.4 km to 6.0 km north of Glen innes		11	226,21
-	9	2.4 km to 3.8 km north of Glen Innes	Strengthening and widening	**	•
"	-		existing pavement	**	119
Guyra	9	Through Guyra Township	Amplification of drainage system	Council	7,499
Murrurundi	9	63.06 km to 64.52 km north	Reconstruction and		
		of Muswellbrook	bituminious surfacing	Department	233,27
••	9	Campbells Creek, 1.6 km south			
		of Murrurundi	Prestressed concrete bridge	4 11	24,12
Muswellbrook	9	Muscle Creek, 5.3 km south			46.40
		of Muswellbrook	Reinforced concrete box culvert	11	10,16
*Credit					

APPENDIX No. 5 — continued COMMONWEALTH AID ROADS FUND

ity, Municipal r Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amou 1976/
A) SCHEDULE 1	- CONST	RUCTION OF NATIONAL ROADS - continue	ed		\$
H) COUNTRY RU					
) STATE HIGHY					
ew England Higi	hway — co	entinued			
arry	9	141.7 km to 143.3 km north			
		of Muswellbrook	Pavement strengthening	Department	43,
atrick Plains	9	Selected lengths between Maitland			
-		and Muswellbrook	Widening of pavement	**	82,
**	9	23.35 km to 24.6 km north of Maitland	Reconstruction and bituminous		
			surfacing (inc. passing lane)	11	•
eel	9	83.3 km to 88.2 km north of Murrurundi	Widening of shoulders	**	
cone	9	Aberdeen overbridge, 16.2 km			
		north of Muswellbrook	Approaches	11	69,
**	9	26.9 km to 27.5 km north of Muswellbrook	Installation of larger culverts	23	25,
evern	9	17.7 km to 22.8 km north of Glen Innes	Reconstruction and		
			bituminous surfacing	•	161,
**	9	Southern approach to Severn River Bridge	, n	**	2,
*1	9	6.0 km to 9.6 km north of Glen Innes	Reconstruction and realignment	**	324,
**	9 .	26.2 km to 26.6 km north of Glen Innes	Improvement of curve	**	191,
**	9	Bridge over Hogues Creek, 21.9 km			
		north of Glen Innes	Widening	••	48,
ingleton	9	Dunolly Bridge at Singleton	Foundation test boring	···	2,
,,	9	67.9 km to 77.1 km north of Maitland			
		(Liddell deviation)	Repair of guardrail	,,,	9.
,,	9	45.33 km to 46.46 km north of Maitland	Asphaltic concrete surfacing	Council	44.
amarang	. 9	48.7 km to 57.8 km north of Murrurundi	Reconstruction and		,
· ·			bituminous surfacing	Department	1,
••	9	Wiles Gully, 45.67 km north of Murrurundi	<u> </u>		
		•, • • • • • • • • • • • • • • • • • •	box culvert	11	
amworth	9	Kent St to Gipp St, West Tamworth	Reconstruction and		
			bituminous surfacing	Council	90
	9	Brisbane St and Marius St, Tamworth	Improvement of intersection		44
enterfield	9	Molesworth St to Petre St, Tenterfield	Reconstruction	11	50
.,	9	3.2 km to 15.3 km south of Tenterfield	Reconstruction, widening and	.,	
			climbing lanes	Department	487
	9	8.5 km to 9.5 km north of Tenterfield			
		Browns Creek Bridge	Approaches	**	98
,,	9	13.5 km to 15.8 km north of Tenterfield	Deviation		2
Iralia	9	90.0 km to 94.84 km north of Tamworth			269
	9	Uralla Creek Bridge, 89.24 km to	. "	.,	
		89.94 km north of Tamworth	Approaches		25
				"	
Saaliia Liiahuusu			•		4,196
Pacific Highway	10	13.71 km to 14.83 km north of Gosford	Reconstruction and		
Nyong	10	13.71 km to 14.63 km north of Gostora	bituminous surfacing		481
	10	12.2 km to 22.2 km north of SU2S	_	11	205
**	10 10	12.2 km to 32.2 km north of SH26 Waltersh Hill 34.1 km to 36.2 km	Widening existing pavement	**	203
**	10	Wallarah Hill, 34.1 km to 36.2 km north of Gosford	Slow vehicle lane		143
	10	Bridge over Kangy Angy Creek,	SION PERIOR LENG	11	143
**	10	16.6 km north of Gosford	Approaches		5
	10	117.95 km to 125.81 km north of Sydney	Resheeting and widening	**	•
11	10	117.95 km to 125.61 km north of Sydney	with asphaltic concrete		13
	10	Lucan Rd SS 22 km couth of Navigaetta	Improvement of intersection	*1	11
**	10	Lucca Rd, 56.23 km south of Newcastle Ourimbah Creek, 13.9 km	improvement of intersection	+1	• • • • • • • • • • • • • • • • • • • •
**	10	north of Gosford	Stool girder and reinforced		
		norm or dosion	Steel girder and reinforced concrete bridge		1
	10	Kangy Creek, 3.0 km south of Tuggerah	Reinforced concrete bridge	1.0	25
**	10	Southern approach to Ourimbah Creek,	Helmorced concrete orloge	11	25
11	10	13.6 km north of Gosford	Reinforced concrete hav sulver		40
		13.0 KIII HURTH OI GUSTOFU	Reinforced concrete box culvert	**	19
					905
Barton Highway			.		
Goodradigbee	15	5 km to 29 km south of Yass	Pavement strengthening and		
Yarrowlumia			drainage improvement	**	275
Goodradigbae	15	Hume Highway to A.C.T. border	Corridor study to review location	***	4
					279

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/77
(A) SCHEDULE 1	- CONST	RUCTION OF NATIONAL ROADS — continu	ued		\$
(III) COUNTRY RU					•
(b) STATE HIGHW		ntinued			
State Highway No.					
Gosford Wyong	26 26	72.42 km to 73.87 km north of Sydney 98.1 km to 98.9 km north of Sydney	Additional southbound lane Widening to four lanes	Department	75,451 56,145
**yong	26 26	Bridge over Ourimbah Creek Rd,	widening to four tanes	**	30,143
,,		98.2 km north of Sydney	Widening	11	55,121
		• •	•		186.717
			Total	State Highways	25,245,228
*				oute my mayo	
(8) 8CHEDIII E 3.	CONST	RUCTION ON EXPORT AND MAJOR COMM	MEDCIAL BOARS		
(i) COUNTY OF C			MENCIAL NOADS		
(a) TRUNK AND O	RDINARY	MAIN ROADS	•		
Botany	170	Bridges over southern sewer main			40.040
	040	on loading ramp	Design by consultants	Department	19,910
**	616	Bridge over Bunnerong Outfall			11,373
	616	Canal at Matraville Beauchamp Rd and Denison St from	**	**	11,010
**	010	Botany Rd to Wentworth Ave	Reconstruction and widening	.,	43,632
11	617	Approaches to railway overbridge	Six lane carriageway	41	37,897
"	617	MR170 to MR194	,,,	1,	3,586
· ·	617	Bridge over sewer main at			
		Chelmsford Ave, Botany	Design by consultants	n.	2,016
"	617	Bridge over Southern Suburbs sewer mair		u	12,817 2,897
	617 617	MR194 to MR170 Southern Suburbs sewer outfall	Foundation test boring	1+	2,097
11	017	on southbound carriageway	Overpass		37,123
		or pour indicated carriagoway	Total Trunk and Ordin		171,251
(ii) COUNTRY URI	BAN ARE/	.	Total Trank and Ordin	iary main nodus	
(a) TRUNK AND O	RDINARY	MAIN ROADS			
(a) TRUNK AND O Wollongong	95	MAIN ROADS MR513 to F6 at Gwynneville	Dual carriageway	Department	
(a) TRUNK AND O	RDINARY	MAIN ROADS			
(a) TRUNK AND O Wollongong	95	MAIN ROADS MR513 to F6 at Gwynneville	Dual carriageway Reconstruction and	Department 	2,889,651
(a) TRUNK AND O Wollongong "	95 95 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513	Dual carriageway Reconstruction and pavement strengthening	Department 	2,889,651 382,146
(a) TRUNK AND O Wollongong " (iii) COUNTRY RU	95 95 95 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513	Dual carriageway Reconstruction and pavement strengthening	Department 	2,889,651 382,146
(a) TRUNK AND O Wollongong (iii) COUNTRY RU (a) TRUNK AND O	95 95 95 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin	Department sary Main Roads	2,889,651 382,146 3,271,797
(a) TRUNK AND O Wollongong (iii) COUNTRY RU (a) TRUNK AND O	95 95 95 JRAL ARE. DRDINARY	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513	Dual carriageway Reconstruction and pavement strengthening	Department 	2,889,651 382,146
(a) TRUNK AND O Wollongong (III) COUNTRY RU (a) TRUNK AND O Wollondilly	95 95 95 JRAL ARE. DRDINARY 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 A MAIN ROADS Bridge over Nepean River at Maldon Wollondilly Bridge over Nepean River at Maldon	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin	Department sary Main Roads	2,889,651 382,146 3,271,797
(a) TRUNK AND O Wollongong (III) COUNTRY RU (a) TRUNK AND O Wollondilly	95 95 95 JRAL ARE. DRDINARY 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 A MAIN ROADS Bridge over Nepean River at Maldon Wollondilly Bridge over Nepean River at Maldon Southern Railway Line,	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments	Department pary Main Roads Department	2,889,651 382,146 3,271,797 395,676 52,092
(a) TRUNK AND O Wollongong (III) COUNTRY RU (a) TRUNK AND O Wollondilly	95 95 95 JRAL ARE. DRDINARY 95 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 A MAIN ROADS Bridge over Nepean River at Maldon Wollondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous	Department pary Main Roads Department	2,889,651 382,146 3,271,797 395,676
(a) TRUNK AND O Wollongong (III) COUNTRY RU (a) TRUNK AND O Wollondilly	95 95 95 JRAL ARE PRDINARY 95 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wollondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge	Department nary Main Roads Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639
(a) TRUNK AND O Wollongong (III) COUNTRY RU (a) TRUNK AND O Wollondilly	95 95 95 97 97 97 97 95 95 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 A MAIN ROADS Bridge over Nepean River at Maldon Wollondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants	Department nary Main Roads Department	2,889,651 382,146 3,271,797 395,676 52,092
(a) TRUNK AND O Wollongong (III) COUNTRY RU (a) TRUNK AND O Wollondilly	95 95 95 JRAL ARE. DRDINARY 95 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wollondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805
(III) COUNTRY RU (a) TRUNK AND O Wollondilly 	95 95 95 97 97 97 97 95 95 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639
(a) TRUNK AND O Wollongong (III) COUNTRY RU (a) TRUNK AND O Wollondilly	95 95 95 97 97 97 97 95 95 95	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access)	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805
(a) TRUNK AND O Wollongong (iii) COUNTRY RU (a) TRUNK AND O Wollondilly	95 95 95 97 97 97 97 97 97 97 97 97	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access)	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805
(a) TRUNK AND O Wollongong (ili) COUNTRY RU (a) TRUNK AND O Wollondilly	95 95 95 97 97 97 97 97 97 97 97 97	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access)	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805
(a) TRUNK AND O Wollongong (ili) COUNTRY RU (a) TRUNK AND O Wollondilly SUMMARY Construction and	95 95 95 97 97 97 97 97 97 97 97 97 97	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access) Total Trunk and Ordin	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805 12,642 565,854
(a) TRUNK AND O Wollongong (iii) COUNTRY RU (a) TRUNK AND O Wollondilly SUMMARY Construction and Freeways	95 95 95 97 97 97 97 97 97 97 97 97 97	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Country of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access) Total Trunk and Ordin	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805
(a) TRUNK AND O Wollongong (III) COUNTRY RU (a) TRUNK AND O Wollondilly SUMMARY Construction and Freeways State Highwa	95 95 95 97 97 97 97 97 97 97 97 97 97 97 97 97	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Country of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access) Total Trunk and Ordin	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805 12,642 565,854
(a) TRUNK AND O Wollongong (iii) COUNTRY RU (a) TRUNK AND O Wollondilly SUMMARY Construction and Freeways State Highwa Trunk and Or Property acquisiti Freeways	95 95 95 97 97 97 97 97 97 97 97 97 97 97 97 97	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Country of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access) Total Trunk and Ordin 18,744,347 27,127,106 4,788,614	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,638 3,805 12,642 565,854
(a) TRUNK AND O Wollongong (illi) COUNTRY RU (a) TRUNK AND O Wollondilly SUMMARY Construction and Freeways State Highwa Trunk and Or Property acquisiti Freeways State Highwa State Highwa	95 95 95 97 97 97 97 97 97 97 97 97 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton ction ction	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access) Total Trunk and Ordin 18,744,347 27,127,106 4,788,614	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805 12,642 565,854 50,660,067
(a) TRUNK AND O Wollongong (ili) COUNTRY RU (a) TRUNK AND O Wollondilly SUMMARY Construction and Freeways State Highwa Trunk and Or Property acquisiti Freeways State Highwa Trunk and Or	95 95 95 97 97 97 97 97 97 97 97 97 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton ction ction	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access) Total Trunk and Ordin 18,744,347 27,127,106 4,788,614	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805 12,642 565,854 50,660,067
(a) TRUNK AND O Wollongong (illi) COUNTRY RU (a) TRUNK AND O Wollondilly SUMMARY Construction and Freeways State Highwa Trunk and Or Property acquisiti Freeways State Highwa Trunk and Or Treeplanting	95 95 95 97 97 97 97 97 97 97 97 97 97 97 97 97	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton ction ction	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access) Total Trunk and Ordin 18,744,347 27,127,106 4,788,614	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805 12,642 565,854 50,660,067 1,722,544 167,344
(a) TRUNK AND O Wollongong (III) COUNTRY RU (a) TRUNK AND O Wollondilly SUMMARY Construction and Freeways State Highwa Trunk and Or Property acquisiti Freeways State Highwa Trunk and Or	95 95 95 97 97 97 97 97 97 97 97 97 97 97 97 97	MAIN ROADS MR513 to F6 at Gwynneville 0 km to 14.5 km west of MR513 MAIN ROADS Bridge over Nepean River at Maldon Wolfondilly Bridge over Nepean River at Maldon Southern Railway Line, 5.1 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton Bridge over Main Southern Railway Line, 5.15 km east of Picton ction ction	Dual carriageway Reconstruction and pavement strengthening Total Trunk and Ordin Approaches Site preparation miscellaneous work at abutments Railway overbridge Design by consultants Erection and dismantling of Bailey bridging (temporary access) Total Trunk and Ordin 18,744,347 27,127,106 4,788,614	Department Department Department	2,889,651 382,146 3,271,797 395,676 52,092 101,639 3,805 12,642 565,854 50,660,067

APPENDIX No. 6 COMMONWEALTH AID ROADS FUND

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/7
A) SCHEDULE 2 -	RURAL	ARTERIAL ROADS			\$
(i) COUNTRY RUR	AL AREA				
(a) STATE HIGHW	AYS				
Princes Highway					
Bega	1	Bega River at North Bega	Prestressed concrete bridge	Department	40,34
mlay	1	13.2 km to 17.5 km south of Bega	Reconstruction and		,.
···· -	·	Total Control of the	bituminous surfacing		13,18
	1	55.1 km to 56.1 km south of Bega	Slow vehicle lane	**	154,33
 Aumbulla	1	127.8 km to 131.0 km south of	Drainage improvement and	**	154,00
ildillodila.	•	Batemans Bay (Brogo pass)	•		163,12
Shoalhaven			pavement strengthening	"	82,4°
noamaven	1	Selected lengths within the shire	Heavy patching	11	
•	1	Parma Creek, 11 km south of Nowra	Deviation	11	6,99
	1	Currumbene Creek, 10.3 km			05.0
		south of Nowra	Prestressed concrete bridge	11	25,6
					486,0
anne Marentalan	Michael				
i nowy Mountains 'umut	4	37.6 km to 39.6 km west of Tumut	Widening of shoulders	Department	38,3
	4	14.09 km to 17.70 km west of Tumut	Reconstruction and		
		•	bituminous surfacing	,,	559,5
	4	Bridge over Nacka Nacka Creek,	· ·		-
		28.2 km west of Tumut	Approaches	11	65,5
**	4	29.93 km to 39.74 km west of Turnut	Widening selected lengths		
,,	•			11	663,3
Mid Western High	•				
Cowra	6	Fitzroy St to Carleton St, Cowra	Reconstruction improvement	_	
		including Shell Corner	and alignment	Council	87,1
Lyndhurst	6	Martha St, Blayney	Reconstruction and realignment	Department	196,7
	6	33.15 km to 37.97 km west of Bathurst	Widening formation	11	28,6
11	6	12.6 km to 16.1 km west of	Reconstruction and		
		Blayney — Carcoar deviation	pavement widening	,,	171,8
**	6	33.15 km to 37.97 km west of Bathurst	Pavement strengthening	**	37,2
**	6	28.32 km to 33.15 km west of Bathurst	- 11	"	90,6
Waugoola	6	10.3 km to 12.7 km east of Cowra	Pavement widening and strengthening	Council	74,5
_			, ,		629,6
Barrier Highway Central Darling	8	1 km to 7 km east of Wilcannia	Approaches to bridges over		
oci i di bai mig		T KIN TO T KIN GOOD OF TVINGERING	Darling River flood plain	Department	70,4
**	8	Darling River flood plain,			
a.		3.7 km east of Wilcannia	Reinforced concrete bridge		76,3
••	8	Darling River flood plain,			
		1.6 km east of Wilcannia	D.	**	100,3
11	В	Darling River flood plain,			
		5.9 km east of Wilcannia	9	0	134,2
••	8	Darling River flood plain,			•
		6.4 km east of Wilcannia	"	**	133,3
	8	81.4 km to 108.5 km and			•
Cobar		130.0 km to 131.4 km west of Nyngan	Reconstruction and widening	11	132,6
Cobar	8	0.06 km to 2.52 km west of Cobar	Reconstruction and		, , -
			bituminous surfacing	Council	7,3
Cobar .,			······		654,8
Cobar 					007,0
					, , , , , , , , , , , , , , , , , , , ,
	10	Showground Rd, 3.5 km north of Gosford	Improvement to intersection	Department	24,1
 Pacific Highway	10 10	Showground Rd, 3.5 km north of Gosford 71.5 km to 71.7 km north of Sydney	Improvement to intersection Restoration of slip	Department	, , , , , , , , , , , , , , , , , , , ,
Pacific Highway Gosford		-	•	•	24,1

[•]Credit

APPENDIX No. 6 — continued
COMMONWEALTH AID ROADS FUND
Summary of Payments from Grants under the Roads Grants Act on Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(A) SCHEDULE 2 -	- RURAL	ARTERIAL ROADS — continued			\$
(I) COUNTRY RU	RAL ARE	A — continued			
(a) STATE HIGHY	WAYS —	continued			
Oxley Highway			·		
Coonabarabran	11	12.2 km to 16.16 km south of			
	• •	Coonabarabran	Approaches to bridge over Belar Creek	Department	7,033
1)	11	61.14 km to 67.32 km east of		F · · ·	
.,		Coonabarabran	Reconstruction and realignment	11	13,846
Liverpool Plains	11	13.0 km to 20.63 km and 1.5 km to	•		
•		12.4 km east of Gunnedah	Widening of shoulders	Council	45,744
11	11	55 km to 73.8 km west of Tamworth	н	**	71,705
Peel	11	42.45 km to 44.41 km west of Tamworth	Reconstruction and		
			bituminous surfacing	11	44,231
11	11	Bridge over Bective Creek, 25.98 km		•	
		west of Tamworth	Approaches	**	79,718
**	11	Menedebri Creek, 44.3 km west of			
		Tamworth	Prestressed concrete bridge	Department	4,411
Walcha	11	54.71 km to 58.73 km east of Walcha	Reconstruction and		
			bituminous surfacing	11	60,406
Warren	11	East of Warren	Heavy patching and		
			pavement strengthening	1+	46,787
				•	373,881
Gwydir Highway					
Glen Innes	12	0.44 km to 5.18 km east of Glen Innes	Reconstruction and		
			bituminous surfacing	Council	83,173
Inverell	12	Ferguson Strailway level crossing	•	•	•
		at Glen Innes	Installation of "F" type flashing lights	11	19,247
Macintyre	12	10.2 km to 27.4 km east of Invereil	Strengthening of existing pavement	,,	77,314
•	12	14.8 km to 17.4 km west of inverell	Reconstruction and widening		18,956
Severn	12	16.8 km to 17.8 km and 37.4 km to	reconstruction and wideling	••	
0010111	12	38.8 km east of Glen Innes	Pavement strengthening and widening	Department	327,140
Yallaroi	12	39.61 km to 53.53 km east of Moree	Pavement restoration	Council	22,708
	12	0.8 km to 5 km east of Warialda	Widening and improvement		84,063
**	12	U.O KIII (O O KIII Bast OI Wanaida	videning and improvement	11	632,601
Bruxner Highway					
Ashford	16	0 km to 4.83 km west of Yetman	Reconstruction and		
Admora		O KIII to 4.00 KIII West Of Tellian	bituminous surfacing	Council	58,132
	16	1.2 km to 14.9 km west and 4.0 km to	Pavement strengthening and	000	70,.00
11	10	12.4 km east of Bonshaw	sub-soil drainage	Department	43,116
	16	Seerys Creek, 16.9 km west of Yetman	Prestressed concrete bridge	Council	8,100
**	16	Unnamed creek, 60.19 km west of	r restressed concrete bridge	·	0,100
***	.0	Bonshaw	Reinforced concrete box culvert		8,481
Casino	16	1. Hickey St to Canterbury St,	1. Reconstruction,	**	. 0,70
CasiiiU	10	2. Walker St to Hickey St	2. Culvert crossing		12,637
Liemore	16	•	• • • • • •	••	14,03
Lismore	10	Hunter St to Brenster St, Lismore	Reconstruction and		50,550
	46	Ballian St. Liamana 24 2 km to 24 0 km	bituminous surfacing		30,33(
**	16	Ballina St, Lismore, 31.3 km to 31.9 km			36,550
Toptodicid	16	west of Ballina	15	**	-
Tenterfield	16 16	51.5 km to 57.24 km west of Tenterfield	11	Department	62,749
11	16 16	60.02 km to 62.8 km west of Tenterfield	••	Department	141,561
"	16	40.2 km to 43.5 km east of Bonshaw	**	**	107,250
	16 16	32.2 km to 37 km east of Bonshaw	**	**	24,394
,, Vallassi	16 16	22.53 km to 32.20 km east of Bonshaw	11	Coupoil	2,042
Yallaroi	16	32 km to 42.7 km west of Yetman	•	Council	88,318 595,104
					383,10
Castlereagh Highv	vay				
Castlereagh Highy Coonamble	18	Coonamble to Walgett	Heavy patching of selected lengths	Department	4,812
	-	Coonamble to Walgett 80.45 km to 93.32 km north of Walgett	Heavy patching of selected lengths Reconstruction and	Department	
Coonamble	18	-		Department 	4,812 738,992

ity, Municipel or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
A) SCHEDULE 2 -	- RURAL A	RTERIAL ROADS — continued			\$
) COUNTRY RUE					
a) STATE HIGHW	IAYS - co	ontinued			
fonaro Highway					
Bibbenluke	19	17.07 km to 34.3 km south of Bombala	Gravel and seal	Council	296,979
.,	19	Little Plains Creek, 19.3 km south			
		of Bombala	Prestressed concrete bridge		14,681
fonaro	19	Jacks Gully at Bredbo	Reinforced concrete box culvert	Department	17,667
49	19	101.64 km to 103.74 km south of Canberra	•		102 251
	**	PD 0 km to 00 25 km as with at Cambaura	widening formation	11	103,351
**	19	89.0 km to 92.35 km south of Canberra	Reconstruction and bituminous surfacing		12,861
	19	37.0 km to 53.6 km north of Bibbenluke	Drainage improvement and	н	12,00
н		Shire boundary	pavement strengthening	11	81,258
		on o boundary	perometric management	,,	526,797
					320,787
Riverina Highway					
Berrigan	20	5.0 km to 6.9 km west of Finley	Reconstruction of failed pavemen	it Department	26,658
					26,658
cobb Highway					
Central Darling	21	4.83 km to 12.87 km south of	Reconstruction and		
•		SH8 near Wilcannia	bituminous surfacing	Department	12,340
11	21	0 km to 4.83 km south of SH8 near	•		
		Wilcannia	••	**	9,007
Deniliquin	21	1.28 km to 2.3 km south of Deniliquin		Council	19,33
lay	21	76.8 km to 77.7 km north of Hay	Approaches to bridge at Booligal	Department	161,967
				•	184,637
llawarra Highway					
Vingecarribee	25	Selected lengths, 6.1 km to 28.6 km			
		east of Moss Vale	Heavy patching	Department	23,303
•		44.4 km west of SH1	Improvement of intersection	**	81,553
	25	58.9 km to 62.83 km west of SH1	Reconstruction and approaches		
		•	to bridges over Wells and		060 50
			Black Bobs Creeks	**	288,522
					393,378
			Tota	al State Highways	6,001,411
(b) TRUNK AND O	RDINARY	MAIN ROADS			
	54		Beconstruction and		
Abercrombie	34	48.0 km to 49.1 km south of Bathurst	Reconstruction and	Council	48,154
Armidale	74	Taylor St to Douglas St, Armidale	bituminous surfacing		16,20
Ashford	137	17.16 km to 19.15 km north of	**	**	
		Ashford Myall Creek	Approaches	41	50,550
**	137	Waterhole Creek, 19.3 km north of Ashford		**	50,55
Bellingen	76	Dorrigo Mountain pass, 0.35 km to		••	
		2.06 km north of Thora	Improvement of alignment	,,	65,70
н	76	21.7 km to 22.3 km west of Bellingen		"	9,81
Bibbenluke	91	22.65 km to 25.65 km east of Bombala	Reconstruction and		
			bituminous surfacing		92,25
	93	Saucy Creek, 10.6 km			
.d.		south east of Bombala	Reinforced concrete bridge	**	1,617
	464		Reconstruction and		
	134	14.68 km to 20.07 km			g 7 40°
Bingara	_	14.68 km to 20.07 km north east of Bingara	bituminous surfacing	**	
Bingara Bland	57	14.68 km to 20.07 km north east of Bingara 1.8 km to 5.9 km north of West Wyalong	bituminous surfacing	"	90,62
Bingara Bland Boorowa	57 56	14.68 km to 20.07 km north east of Bingara 1.8 km to 5.9 km north of West Wyalong 42.2 km to 45.23 km north of Boorowa	bituminous surfacing .'' 	"	90,62 45,58
Bingara Bland Boorowa Boree	57 56 377	14.68 km to 20.07 km north east of Bingara 1.8 km to 5.9 km north of West Wyalong 42.2 km to 45.23 km north of Boorowa 57.7 km to 61.7 km west of Orange	bituminous surfacing	•	90,620 45,580
Bingara Bland Boorowa Boree	57 56	14.68 km to 20.07 km north east of Bingara 1.8 km to 5.9 km north of West Wyalong 42.2 km to 45.23 km north of Boorowa 57.7 km to 61.7 km west of Orange Paroo River and Bywash	bituminous surfacing ."	0 0 7	90,628 45,586 75,673
Bingara Bland Boorowa Boree Bourke	57 56 377 405	14.68 km to 20.07 km north east of Bingara 1.8 km to 5.9 km north of West Wyalong 42.2 km to 45.23 km north of Boorowa 57.7 km to 61.7 km west of Orange Paroo River and Bywash Nos.1 and 2 bridges	bituminous surfacing Approaches	11 11 11	90,628 45,580 75,673 160,498
Bingara Bland Boorowa Boree	57 56 377	14.68 km to 20.07 km north east of Bingara 1.8 km to 5.9 km north of West Wyalong 42.2 km to 45.23 km north of Boorowa 57.7 km to 61.7 km west of Orange Paroo River and Bywash	bituminous surfacing ."	0 0 7	63,187 90,628 45,580 75,673 160,498 1,063 65,718

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
		ARTERIAL ROADS — continued			\$
(I) COUNTRY RUF		·			
<u> </u>		MAIN ROADS — continued	Reconstruction and		
Burrangong	78	3.5 km to 8.9 km south of Young	bituminous surfacing	Council	44,231
	241	6.4 km to 15.0 km east of Voues	· ·		63,416
Duran	65	6.4 km to 15.0 km east of Young 23.49 km to 26.63 km east of Lismore	11	**	44,681
Byron	61	3.65 km to 9.08 km west of Orange	11	**	116,674
Canobolas	83		•	11	31,594
Casino	68	Bent St to Queensland Rd, Casino	Approaches	**	124,633
Central Darling		Bridge over Darling River at Menindee	Approaches	Department	175,749
	68	Darling River at Menindee	Steel and concrete bridge	Department	173,748
Coffs Harbour	151	Nana Creek, 26.0 km north of	Reinforced concrete box culvert	Council	151,483
	454	Coffs Harbour		Council	59,611
15	151	Nana Creek, 57.3 km south of Grafton	Approaches	**	38,011
*1	151	64.1 km to 65.8 km south of Grafton	Reconstruction and		04 000
			bituminous surfacing	11	81,928
Colo	181	0 km to 2.0 km north of	•		40 500
•		Webbs Creek Ferry, Colo	"	•	43,526
••	181	1.6 km north of Webbs Creek	,		
		Ferry to Singleton	11	**	51,813
**	503	Howes Creek, 11.0 km north of Windsor	Prestressed concrete bridge	Department	67,843
	503	Currency Creek, 8.7 km north of Windsor	13	**	3,753
11	503	Bridge over Roberts Creek, 16.4 km to			
		17.8 km north of Windsor	Deviation for approaches	11	139,578
++	503	17.54 km to 18.02 km north of Windsor	Reconstruction and		
•			bituminous surfacing	,,	152,488
	503	Various locations, 22.0 km to 26.0 km	3		•
D	555	north of Windsor	Strengthening of pavement	D	148,173
	503	Bridge over Currency Creek, 8.6 km	Swengurening or parenin	.,,	
1+	303	to 9.0 km north of Windsor	Approaches		56,108
	503	Bridge over Howes Creek, 10.9 km to	Approacties	**	00,.00
••	503	•			22,506
^	***	11.7 km north of Windsor		11	22,300
Conargo	552	Bridge over irrigation channel,	Midania	Council	56,868
		17.6 km north of Deniliquin	Widening	Council	-
Coolah	77	Merrygoen Creek at Mendooran	Steel and concrete bridge	**	130,854
**	206	Tucklan Creek, 9.66 km west of Dunedoo	Reinforced concrete bridge	*1	10,409
**	206	Sandy Creek, 24.8 km west of Dunedoo	6 span prestressed concrete bridge	**	18,956
**	206	Tucklan Creek, 9.55 km to 9.9 km			
		west of Dunedoo	Approaches		33,157
Coonabarabran	55	29.44 km to 34.8 km north of Coolah	Reconstruction and		
			bituminous surfacing	11	112,142
Cootamundra	78	4.5 km to 6.5 km south of Cootamundra	Reconstruction and widening	**	64,193
Copmanhurst	83	39.0 km to 48.0 km north of Grafton	Restoration of damaged pavement	н	27,802
Crookwell	54	24.38 km to 26.4 km north of Crookwell	Reconstruction and		
			bituminous surfacing	**	72,033
Culcairn	331	53.0 km to 58.6 km west of	_		
		Holbrook Shire boundary	11	**	82,473
Denman	213	12.0 km to 13.38 km west of Jerry Plains		"	76,725
Dumaresq	74	76.54 km to 78.63 km (Ebor)	,,	"	
Domarcoq	• •	east of Armidale	-		109,945
Dungog	289	3.2 km to 4.6 km east of MR101		**	61,923
Eurobodalia	51	20.3 km to 21.4 km west of Batemans Bay	Construction of climbing lanes	11	61,923
Europodalia	271	•	Construction of Climbing lanes	**	01,02
	2/1	Kiora Bridge over Moruya River,	Prestressed concrete bridge		139.01
01	-00	3.94 km west of Moruya	-	••	138,01
Gloucester	90	1.4 km to 3.4 km east of Gloucester	Reconstruction and		45.40
			bituminous surfacing	11	45,49
Gosford	225	38.4 km to 43.3 km north of			
		Wisemans Ferry at Greens Pinch	11	11	63,187
Great Lakes	90	15.92 km to 16.92 km north			
		of SH10, Camerons Creek	Approaches	11	37,91
Gundurimba	544	9.96 km to 11.85 km west	Reconstruction and		
		of Lismore	bituminous surfacing		88,46
Gunning	52	Bridge over Yass River, 32.1 km	•		
		south of Gunning	Reconstruction of approaches		36,92
Canan	73	19.0 km to 23.0 km	Reconstruction and	*	- • - -
Lauvra					40.44
Guyra		south of inverell	bituminous surfacino		18.65
Guyra	135	south of Inverell 30.42 km to 32.03 km west of Guyra	bituminous surfacing	,, ,	18,44 60,66

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/7
(A) SCHEDULE 2 -	RURAL	ARTERIAL ROADS — continued			\$
I) COUNTRY RUR					
b) TRUNK AND OF		MAIN ROADS — continued			
-lastings	112	13.0 km to 14.65 km	Reconstruction and		
			bituminous surfacing	Council	78,35
	600	Fernbank Creek, 5.28 km north of SH11	Prestressed concrete bridge	**	237,58
Holbrook	284	46.2 km to 61.3 km west	Reconstruction and		
		of Tumbarumba	bituminous surfacing	н	55,26
llabo	78	19.6 km to 22.2 km north of Junee	-		78,82
mlay	91	24.3 km to 26.7 km west of Pambula	17	.,	90,98
•	91	Honeysuckle Creek, 25.4 km east of SH1	Steel girder bridge	1)	85,64
*1	275	Candelo Creek at Candelo	Prestressed concrete bridge	,,	67,46
nverell	73	2.77 km to 3.88 km south of Inverell	Reconstruction and		
			bituminous surfacing	**	70,51
Jemalong	377	Reinforced concrete box culvert.		,,	
		11.2 km to 13.4 km west of Forbes	Approaches		72,89
Junee	78	1.35 km to 2.87 km west of Junee	Reconstruction and	**	
	. •		bituminous surfacing		20,95
Kempsey	75		Installation of "F" type flashing	**	20,00
(Compacy	, 3	Ceigrave St, Reimpsey	lights and warning bells	Department	60,34
Kwazaha	78	Bridge over Verene Creek 1 21 km	ngrits and warring bens	Department	00,54
Kyeamba	/0	Bridge over Yerong Creek, 1.21 km	A	0	70.04
		north of Yerong Creek Village	Approaches	Council	78,01
Kyogle	83	4.8 km to 7.2 km north of Kyogle	Reconstruction and		
			bituminous surfacing	**	132,69
Lachian	57	3.2 km to 6.4 km north of Tottenham	**	**	88,46
**	57	11.8 km south of Condobolin			
		at Wallamundry Creek	Prestressed concrete bridge	11	82,14
Leeton	80	7.36 km to 13.5 km east of Leeton	Reconstruction and		
			.bituminous surfacing	11	77,08
Liverpool Plains	55	22.86 km to 27.20 km south of			
		SH11 at Mullaley	,,,	**	89,09
Lockhart	78	31.7 km to 33.1 km south of SH14	1)	11	21,05
11	78	Yerong Creek, 1.21 km north of			
		Yerong Creek Village	Approaches	***	46.41
	78		Prestressed concrete bridge	**	2,50
 Macleay	75	Hickeys Creek, 31.78 km west of		••	_,
	, -	Kempsey Municipal boundary			89,79
	75	Hickeys Creek Bridge, 31.8 km	,,	**	00,
**	, 0	west of Kempsey	Approaches		152,01
Merriwa	214	7.6 km to 9.66 km south of TR62	Reconstruction and	• •	132,0
MOLLIMO	214	7.6 KIII (0 9.60 KIII SOU(II OI 1 NG2			72 51
	04.4	4.0 km 4n C.0 km nov4h n4.TDC0	bituminous surfacing		73,50
11	214	4.0 km to 6.9 km south of TR62	Reconstruction and		04.04
			bituminous surfacing	11	31,89
•	358	Coulsons Creek double crossing,	Reinforced concrete box		
		10.9 km north of Merriwa	culvert construction	11	128,8
Mitchell	78	12.36 km to 15.74 km	Reconstruction and		
		north of Wagga Wagga	bituminous surfacing		2,3
Mittagong	260	1.08 km to 2.8 km south of SH2	33	**	54,3
Molong	359	10.47 km to 13.35 km south of Molong	Gravelling and sealing surface	••	95,1
**	359	11.27 km to 16.09 km	Reconstruction and		
		south of Molong	bituminous surfacing	11	4,7
Mumbulla	272	Long Swamp, 2.5 km to 9.0 km	-		
		north of Bermagui	Deviation	**	80,8
Namoi	127	Unnamed creek, 7.68 km west of Wee Waa	Reinforced concrete box culvert	**	63,1
Narraburra	398	19.0 km to 23.7 km	Reconstruction and	"	
		south of Ariah Park	bituminous surfacing		105,4
Nymboida	74	Cockatoo Creek, 84.8 km to 85.5 km	Reinforced concrete box	**	,
Hymbolda	77	south of Grafton	culvert and approaches		42,7
	74	Bridge over Koukandowie Creek,	oditali alio appi oaciios	*11	74,1
	/ **		Approaches		20 7
	***	19.0 km south of Grafton	Approaches	.,	33,7
55	74	Blicks River, 86.1 km south of Grafton	Prestressed concrete bridge	Department	153,9
**	74	Blicks River, 85.5 km to 87 km	Reconstruction and bituminous		
	050	south of Grafton	surfacing northern approach	Council	96,8
	256	39.36 km to 41.12 km south of Oberon	Reconstruction and		
Oberon			bituminous surfacing		44,7
	_			**	,.
Oberon	61	Eugowra Rd to Billabong Creek Bridge	Reconstruction and bituminous surfacing including junction MR238	11	18,7

APPENDIX No. 6 — continued COMMONWEALTH AID ROADS FUND Summary of Payments from Grants under the Roads Grants Act on Construction and Reconstruction Works

City, Municipal or Shire Area	Ro a d No.	Location of Work	Class of Construction	Constructing Authority	1976/7
A) SCHEDULE 2 -	- RURAL A	RTERIAL ROADS — continued			\$
I) COUNTRY RUI	RAL AREA	- continued			
b) TRUNK AND O	RDINARY	MAIN ROADS — continued			
			•		
atrick Plains	503	Mellong Creek, 91.5 km, and Kangaroo	Reinforced concrete box		
		Waterholes, 93.2 km south of Singleton	culvert and approaches	Department	79,354
15	503	Various locations, 36.9 km to		•	
		91.8 km south of Singleton	Replace small timber culverts	***	19,01
ueanbeyan	51	0.35 km to 1.25 km east of Queanbeyan	Deviation including approaches		
			to Queanbeyan Bridge	Council	71,92
	51	0 km to 2.5 km east of Canberra	Approaches	**	65,91
н	51	Queanbeyan River at Queanbeyan	6 span steel girder bridge	Department	35,02
	51	Bridge over Queanbeyan River			
		at Queanbeyan	Cement rendering of piers	1.	20,41
	51	Deviation 0 km to 2.5 km east			
		of A.C.T. boundary	Railway overbridge	**	355,69
lyistone	54	11.84 km to 12.8 km west of liford	Reconstruction and		
			bituminous surfacing	Council	41,07
11	54	10.56 km to 11.84 km west of liford	11	11	36,64
albragar	206	Plain Creek, 21.5 km east of Dubbo	Reinforced concrete bridge	***	94,45
11	206	Plain Creek, 21.2 km east of Dubbo	Steel girder and reinforced		
			concrete bridge	**	217,11
allaganda	51	Shoalhaven River, 13.0 km			
		north of Braidwood	7 span steel girder bridge	Department	229,73
	51	Warri Bridge over Shoalhaven River,			•
		13.0 km north of Braidwood	Approaches	Council	126,37
*,	51 & 79	Intersection TR51 and TR79,			
		27.4 km north of Braidwood	Reconstruction	***	39,80
19	51	3.2 km to 39.0 km east of Queanbeyan	Formation and widening	.,	40,62
amarang	72	Bridge over Quipolly Creek,			
		14.6 km north of Quirindi	Approaches		154,17
ti .	129	47.3 km to 49.16 km west of Quirindi	Reconstruction and		
			bituminous surfacing	**	103,62
Fenterfield	362	0 km to 6.5 km south of Urbenville		**	50,55
erania	142	38.0 km to 41.28 km north of Lismore	н		60,66
Timbrebongie	89	Backwater Cowal Bridge, 4.14 km			
		south of Narromine	Approaches	1.0	120,05
ľomki	83	93.74 km to 95.3 km north of Grafton	Reconstruction and		
			bituminous surfacing	11	48,27
Tumbarumba	282	37.0 to 42.0 km south of Tumbarumba	15	1.	53,99
uron	54	44.3 km to 47.0 km north of Bathurst	0	17	44,11
weed	399	Couchy Creek, 18.40 km to 18.96 km	Approaches		122,60
,,	399	Couchy Creek, 20.6 km	•		
		north of Murwillumbah	Reinforced concrete box culvert	••	44,55
Jralia	73	28.5 km to 31.7 km north of Uralia	Reconstruction and		
•			bituminous surfacing	••	63,34
Vakool	319	Yarrein Creek, 62.0 km north of Barham	Prestressed concrete bridge		83,40
Valgett	68	Bridge over Moonie River at Gundabloui,			
		50 km north of Collarenebri	Approaches	· ·	118,48
**	68	Moonie River at Gundabloui,			
		50.0 km north of Collarenebri	Prestressed concrete bridge	Department	10,96
Varren	347	6.43 km to 9.86 km south of Collie	Reconstruction and		
			bituminous surfacing	Council	53,07
	347	0 km to 9.87 km south of Collie		**	191,42
Vaugoola	78	3.1 km to 4.45 km south of Cowra	11	**	26,53
Vindouran	319	16.42 km to 20.05 km north of Moulamein		***	99,73
Vollondilly	259	6.49 km to 23.7 km west of SH2		Department	14,77
/allaroi	63	45.6 km to 49.25 km north of Warialda	11	Council	82,65
Yarrowiumia	51	6.18 km to 6.92 km east of Queanbeyan	Reconstruction and realignment		
		,	of curve		2,86
71	51	3.2 km to 9.6 km east of Queanbeyan	Formation and pavement widening		
		•	and drainage improvement		(

^{*}Credit

APPENDIX No. 6 — continued COMMONWEALTH AID ROADS FUND Summary of Payments from Grants under the Roads Grants Act on Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/7
(A) SCHEDULE 2 -	RURAL	ARTERIAL ROADS — continued			\$
(I) COUNTRY RUR		· · · · · · · · · · · · · · · · · · ·			
(c) DEVELOPMENT	TAL ROA	DS			
				.	
Coolah	1304	Bridge over Talbragar River at Urabry	Approaches	Council	164,28
**	1304	24.6 km to 29 km east of TR55	Reconstruction and		
.	4004	A1 1	bituminous surfacing	19	12,89
Merriwa	1304	0 km to 4.74 km west of			
		MR214 towards Curryall	11	11	145,33
			Total Developm	ental Roads	322,51
		·			
(B) SCHEDULE 3 —	RURAL	LOCAL ROADS			
(I) COUNTRY RURA	AL AREA				
(a) DEVELOPMENT	TAL ROA	D\$			
Bourke	1316	0 km to 62.1 km north of MR405	Drainage and group surfacing		
Dourke	1310	UKIT to 62.1 km north of MH405	Drainage and gravel surfacing	Council	1,46
	1216	(1) 0 km to 66 km (2) 0 km	at selected locations	Council	1,40
**	1316	(1) 0 km to 66 km, (2) 0 km	1. Clearing of grids, 2. Construction		4.00
3 a m m a m b · · · · · · ·	4470	to 19.83 km — north of MR405	of formation and drainage	*1	1,98
Copmanhurst	1179	19.2 km to 27.1 km north of MR150	Reconstruction	**	10,00
	1179	40.07 km An 44.05 km	Formation and served at 45-1-1	11	10,00
Dungog	3163	12.87 km to 14.85 km north of Dungog	Formation and gravel surfacing	**	68,82
Gloucester	3224	62.8 km to 69.2 km north		•	
		west of Gloucester	**	*1	5,21
Goodradigbee	1315	4.83 km to 5.99 km from Dicks Creek	Construction	11	3,53
Great Lakes	3218	Deep Creek, 9.6 km north of Bulahdeiah	Prestressed concrete		4 4-
			bridge and approaches	11	47,17
Greater Cessnock	3222	6.44 km to 8.05 km south of SH9	Formation and gravel surfacing	**	21,89
Guyra	3212	Swallows Nest, 21.7 km to 23.3 km			
		west of SH9		19	
Molong	1320	13.92 km to 20.36 km north west of Obley	Reconstruction and gravelling	H	3,0
11	1320	16.12 km to 21.13 km west of Obley	Reconstruction and gravel surfacing	•••	68
**	1320	13.9 km to 20.4 km west of Obley	Reconstruction and bituminous		
			surfacing including deviation culvert	*11	6
Monaro	1268	32 km to 33 km north of Kybeyan	Formation and gravel surfacing	* 1	2,20
**	1268	35.65 km to 35.75 km north of Kybeyan	**	1+	70
Murrurundi	3213	Bridge over Phillips Creek,			
		31.06 km west of MR358	Approaches	1+	35,09
•	3213	Phillips Creek, 31.06 km west of MR358	Reinforced concrete bridge	11	4,5
Nambucca	1078	27.03 km to 30.26 km north of Argents Hill	Formation and gravel surfacing		
			(including Argents Creek culvert)	11	3,4
Scone	1243	0 km to 5 km east of Pages			
		Creek Rd, north of Timor	Formation and gravel surfacing	*1	72,0
**	1243	0 km to 5 km east of Pages Creek	**	**	72,0
*1	1313	Proposed road linking			
		Scone and Gloucester	Investigation, survey and design		3,6
Snowy River	1297	Bridge over Pinch River, 10.2 km			
		south of Jacobs River	Supply of steel for fabrication	Department	2
**	1297	Jacobs River, 48.0 km south of Jindabyne	Reinforced concrete bridge	Council	2,0
Tallaganda	1268	67 km to 68.17 km south of Braidwood	Reconstruction and gravel surfacing	11	9,0
11	1268	77.3 km to 79 km south of Braidwood	Formation and gravel surfacing	**	
Tumbarumba	1171	0 km (MR281) to 4.83 km			
		east of Welaregang	**	*1	11,4
Tumut	1215	32 km to 36.2 km south of SH4	Formation and gravel surfacing	*1	3,7
Tweed	3220	7.2 km to 7.6 km east of MR142	"	*1	1
Wellington	1310	4.38 km to 5.49 km east of			
<u>-</u>		MR573 near Euchareena	"	**	9
Wingecarribee	1299	19.31 km to 24.1 km from Canyonleigh Rd	Reconstruction and gravel surfacing	1)	4
Yallaroi	1270	17.38 km to 20.60 km north	-		
		west of Warialda	Construction	11	2,1
**	1270	0.3 km to 35.9 km west of Warialda	Formation and gravel surfacing	**	3,5
	1290	12.59 km to 14.03 km east of Yallaroi	Construction	17	1,2
"	1290	10.9 km to 12.58 km east of Yallaroi	Formation and gravel surfacing	11	2,9
,,	1290	71.9 km to 73.15 km north east of Moree	,,	"	2,8
			Total Develops		217,6
			i vai vetelopi	v.ivai NVaus	417,0

(C) SCHEDULE 5 — (I) COUNTY OF CU (a) FREEWAYS Warringah Freeway		ARTERIAL ROADS			\$
•		NU AKEA			
Varringsh Ersaway					
rai:iiryaiiriwwwa;	,				
lorth Sydney	F1	Brook St, Naremburn	Overpass	Department	52,345
	F1	West St, North Sydney	Prestressed concrete bridge		1,649
	F1	Miller St to Willoughby Rd, Naremburn	Divided two lane carriageway	••	2,402,948
Villoughby	F1	Merrenburn Ave, Naremburn	Prestressed concrete bridge	*1	21,514
					2,478,456
ydney-Newcastle	Freeway				
Sydney	F3	Druitt St, Sydney to	Public utility adjustment Public		
		Bridge Rd, Glebe	Transport Commission	Department	8,847
11	F3	North Western Freeway —	Foundations, substructures, viaducts		
		Bathurst St area (B)	and associated works	,,	1,867,443
11	F3	North Western Freeway	Substructures in Darling		
			Harbour Goods Yard	11	63,750
17	F3	Druitt St, Sydney to Bridge Rd, Glebe	Public utility adjustment Postmaster		
			General's Department	**	21,681
**	F3	North Western Freeway -	Foundations, substructures, viaducts		
		King St area (K)	and associated works	11)	483,600
	F3	Darling Harbour Goods Yard	Bathurst St utility tunnel	••	2,126
,,	F3	, ,,	Public utility adjustment		
**	. •	"	Sydney County Council		206,43
	F3	Druitt St, Sydney to Bridge Rd, Glebe	Public utility adjustments M.W.S.&D.B.		422,000
***	F3	Druitt St, Sydney to Bridge Rd, Glebe	Public utility adjustments	,,,	
11	, 0	Brait of, cyanoy to bridge that allows	Electricity Commission	••	13,11
	F3	North Western Freeway —	Foundations, substructures, viaducts		,
н	13	Pyrmont St area (P)	and associated works		662,699
	F3	•	Service road	11	5,849
н	F3	Darling Harbour Goods Yard	Construction of Deck ENW7	*1	39,95
••	F3	Druitt St, Sydney to Bridge Rd, Glebe	Design by consultants	**	189,041
,,	гз	Drutt St, Syuney to bridge No. Glebe	Design by consultants		3,982,308
Western Freeway					
Auburn	F4	Wentworth Rd to Wentworth St, Clyde	Divided two lane carriageway	Department	1,204,51
Strathfield					
Parramatta					
Auburn	F4	Eastern Abattoirs Railway Line	Steel bridge	**	3,44
**	F4	Melton St. Auburn	Pedestrian overbridge	**	36,37
**	F4	Haslams Creek stormwater channel	Prestressed concrete bridge —		
			eastbound	**	93,01
	F4	Haslams Creek stormwater channel —			
		eastbound carriageway	Prestressed concrete bridge	**	383,54
,,	F4	Silverwater Rd, Auburn	**		9
	F4	Western Abattoirs Railway Line	Steel bridge	**	3,30
Sydney	F4	Sydney Harbour Bridge Toll Plaza			
		to Day St	Asphaltic concrete surfacing	**	26,35
					1,750,56
			-		
			IO	tal Freeways	8,211,32
(b) STATE HIGHW	AYS				
Princes Highway					
Sutherland	1	Waterfall Village	Deviation and approaches to MR393	Department	22,22
	1	President Ave to SH1 at Loftus	Construction of dual carriageway	11	26,43
			- 1		4,21
					7,21
Ua Hlabway					
uning uignway	2	Avoca St to Cooper St, Yagoona	Stormwater drainage	Department	4,15
	4	suc at the doublet off the agreeting			
Hume Highway Bankstown Liverpool	2	Bringelly Rd, Leppington	Reconstruction of intersection		195,53

^{*}Credit

Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
- URBAN	ARTERIAL ROADS — continued			\$
UMBERL	AND AREA — continued			
4YS — co	ntinued			
hway				
5		Access ramps to Church L overpass		
_			Department	1,047,920
5	Wentworthville to Prospect			
		at six intersections	**	8,552
				1,039,368
		Total Sta	te Highways	1,234,964
			g ,	
190				
	•	Widening narrow underpass	Department	204,382
		Dual carriageway	**	541,721
344				
	•	**	***	201,610
		Prestressed concrete plank bridge	Council	155,567
154	0 km to 3.4 km north of Narellan	-		
		approaches to Narellan Creek Bridge	**	167,440
178	, -			
		Reinforced concrete bridge	*1	377,290
177	•		_	- مدر
	Campbelltown	Deviation	Department	276,697
=			13	727,870
609	•			
			*1	267,360
		<u> </u>	••	309,985
	-	- · · · · · · · · · · · · · · · · · · ·	11	1,219,611
		Divided carriageway	11	718,925
	,		**	397,652
		<u> </u>	11	249,023
		Channellised intersection	11	14,069
164	•			
450			19	45,536
			11	215,933
	Eleanor St to Hassail St, Hosenill	widening to six lanes	11	612,931
	Long Coup Ed and Engine Ed. North Dudo	Interchange		1.099.865
	Lane Cove no and Epping no, worth nyde	merchange	**	1,000,000
	OverMR163 (Lene Cove Rd) North Rude	Brootranced concrete girder bridge		572,311
	•	Frestressed concrete girder bridge	**	372,311
170		Dual carriageway		183,788
210		Dual carriageway	**	103,700
310	•	Annroachae	Council	164,104
512		• •		104,104
312			_	783,306
173			•	,00,000
173	Kings Cross Further project			3,546
173	Victoria St Tunnel		•	3,546
		-	•	
.,,	rangs or oss i uniter project			19,840
173	Kings Cross Tunnel project	•	**	4,254
	•	- · ·		217,368
	_			217,530
				89
				24,430
	•	-	13	
. •	mana vale na le earley en mena vale	- · · · · · · · · · · · · · · · · · · ·		400,166
164	Pittwater Rd from Dee Why Lagoon to	The state of the s	*1	700,100
.04	Long Reef Golf Course	Bitumen sealing of eastern shoulder	Council	2,403
328	Daines Pde to Pittwater Rd.	Dual carriageway including	Countries	-,70
		varragema, moraemy		
320		Intersection with MR164	Department	820 42
	Brookvale	Intersection with MR164	Department	820,427
397		Intersection with MR164	Department	820,427 253,979
	No URBAN UMBERLAYS — convey 5 5 8DINARY 190 167 344 154 154 178	No. Location of Work -URBAN ARTERIAL ROADS — continued UMBERLAND AREA — continued Way 5 Church L to Old Western Rd. Blacktown 5 Wentworthville to Prospect IDINARY MAIN ROADS 190 The Boulevarde to Lewis St. Lidcombe near Amy St 167 Lloyd Ave to Boardman St, Yagoona 344 Southern Cross Dr. Eastlakes to Bay St. Pagewood 154 Narellan Creek, 1.6 km north of Narellan 156 Cowpastures Bridge over Nepean River at Camden 177 Bradbury Ave to The Parkway, Campbelltown 315 & King Georges Rd and Canterbury Rd, Wiley Park 609 Fairfield 162 Killeaton St to Richard Ave, St Ives 162 Highlands Ave to Cowan Rd, St Ives 163 Copeland St to Maxwell St, Liverpool 608 Copeland St to Maxwell St, Liverpool 608 Hinkler Ave to Elizabeth Dr, Liverpool 183 Burrows Rd, St Peters 164 Wycombe Rd to Cabramatta Rd, Cremorne Junction 158 Stewart St to Morris St, Eastwood 159 Beauchamp Rd to Bunnerong Rd (1st stage), Matraville 318 Railway overbridge, Marlborough Rd, Homebush 130 Kings Cross Tunnel project 173 Victoria St Tunnel 173 Kings Cross Tunnel project 174 Kings Cross Tunnel project 175 Kings Cross Tunnel project 176 Kings Cross Tunnel project 177 Victoria St to Bardo Rd, Newport 178 Mona Vale Rd to Darley St, Mona Vale	No. Location of Work URBERLAND AREA — continued UNS— continued UN	No. Location of Work URBARL ROADS - continued UNBERLAND AREA - continued UNS - continued UNIS - con

Summary of Payments from Grants under the Roads Grants Act on Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
		ARTERIAL ROADS — continued			\$
		ND AREA — continued			
d) SECONDARY R	OADS				
Haaktawa	2084	Pailway overbridge at Saven Hills	Approaches	Council	544,169
Blacktown	2084	Railway overbridge at Seven Hills Seven Hills Railway Station	Railway overbridge	.,	720
loiroyd	2071	Prospect Creek (Kenyons	, , L , , , , , , , , , , , , , , , , , , ,		
·		Bridge), Smithfield	Single span steel beam bridge	**	142,912
lyde	2081	Trelawney St to Ryedale St,	Reconstruction and widening	Desertment	E72 620
		Eastwood	railway overbridge	Department	573,638
			Total Secon	ndary Roads	1,259,999
e) ROADS OTHER	THAN M	AIN ROADS			
lankstown	5016	Alfords Point Bridge northern approach	Extension	Department	338,149
"	5016	Old Kent Rd to SH2, Bankstown	Reconstruction and asphaltic	•	
			concrete surfacing	**	209,974
Parramatta	5037	Pennant Hills Rd near Burnside St	Dual carriageway including access		
	5007	to Windsor Rd, Parramatta	to Lake Parramatta Reserve	···	324,634
	5037	Kissing Point Rd to Pennant Hills Rd near Burnside St	Duel corriggovery		1,162,991
•	5037	Pennant Hills Rd near Burnside	Dual carriageway	* 1	1,102,331
•	000.	Homes, North Parramatta	Steel box girder underpass bridge	**	220,379
		•	Total Roads other than	Main Roads	2,256,127
ii) COUNTRY URB	AN AREA				
a) FREEWAYS					
outhern Freeway					
Vollongong	F6	Twin bridges over freeway at	0	D	404 474
	F6	Northcliffe Dr. Berkeley Hernes estate access at Figtree	Superstructure Twin prestressed concrete bridges	Department	121,171 1,779,192
	F6	Harvey St, Dapto	Reinforced concrete box girder bridge	••	336,446
"	F6	Five Islands Rd to Northcliffe Dr	Dual carriageway including	•••	555,115
,,			interchange at Five Islands Rd	**	77,031
11	F6	Kanahooka Rd to Emerson Rd, Dapto	Dual carriageway	*1	260,102
***	F6	Northcliffe Dr to Kanahooka Rd,			
		Kembla Grange	11	••	600,629
			Tol	al Freeways	3,174,571
b) STATE HIGHW	PVAVE	•			
•					
Princes Highway Vollongong	1	Mullet Creek, 92 km to 95 km			
vollorigorig		south of Sydney	Deviation	Department	218,621
**	1	Central Rd to Victoria St, Unanderra	Subsoil drainage and asphaltic	•	*
			concrete surfacing	Council	292
					218,329
Pacific Highway					
Lake Macquarie	10	Mark St to Red Rose Ave, Belmont	Restoration of damaged pavement	Department	3,135
					3,135
			Total Sta	te Highways	221,464
(c) TRUNK AND O	RDINARY	MAIN ROADS			
Camden	259	0.0 km to 3.4 km municipal			
		boundary, west of SH2	Deviation including culverts	Department	1,008
Greater Cessnock	218	Black Creek Bridge, Wollombi Rd,		_	
		Cessnock	Prestressed concrete bridge	Council	71,760
**	220	Cessnock towards Freemans	Reconstruction and		407.044
aka Maaassasia	225	Waterholes, 23.4 km to 24.4 km	bituminous surfacing	**	107,640 94,407
_ake Macquarie	325 82	0 km to 1.31 km west of MR217 Lloyd St to Croudace St, Lambton	Deviation Reconstruction and		34,40
Newcaetle					
Newcastle	02	Eloyd St to Oroddadd St, Earnbion	bituminous surfacing	**	176,680

*Credit

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amou 1976/
		ARTERIAL ROADS - continued			\$
ii) COUNTRY URB c) TRUNK AND OR		A — continued ' MAIN ROADS — continued			
•,			Reconstruction and		
ort Stephens	601	3.7 km east of MR104	bituminous surfacing	Council	37,02
hellharbour	522	Redall Pde to Peterborough Ave,	Reconstruction and provision		
		Lake Illawarra	of dual carriageway	*1	11,34
	522	Lake Entrance Rd to	Provide dual carriageway by	,,	, -
11	322		• • •		
		Bass St, Warilla	reconstructing northbound		
			carriageway		49,3
,,	611	Lang St to Devonshire Cres	Reconstruction of		
		Oak Flats	eastbound carriageway	11	122,5
/allanana	100	Oke Kamble Stan 1 t km aublin			
ollongong	186	0 km Kembla St to 1.1 km public school, Mt Keira	Reconstruction and widening		77,2
			-	**	
**	295	Port Kembia North	Railway overpass and approaches		190,4
**	522	Shellharbour Rd to Windang Rd, Windang	Deviation	**	119,6
	522	Primbee Deviation to	Reconstruction of		
**	OLL				71,7
		Wattle Ave, Windang	northbound carriageway	*1	
1	522	Boronia Ave to Primbee Deviation	Public utility adjustment	***	211,5
) SCHEDULE 6 -	LIDDAN	LOCAL BOARS	Total Trunk and Ordina	ry Main Roads	1,340,2
) COUNTY OF C	UMBERI	LAND AREA			
) ROADS OTHER		AIN ROADS			
shfield		Urban local roads	Annual grant 1976/77	Council	43,9
uburn		,,	,,	,,	62,2
ankstown		·	·•		198,1
aulkham Hills		11	**	11	
		11	**	n	126,6
lacktown		***	11	**	207,3
lue Mountains		Old Bathurst Rd to beyond			
		public school, Glenbrook	Widening		39,5
		Urban local roads	•	*1	-
. **		Ordan local roads	Annual grant 1976/77	** .	51,0
otany		17	1)	11	55,1
urwood		,,	11	11	34,7
ampbelitown		Bounded by Chester Rd, Brenda St.			•
ampoonto		•			
		Sackville St and Ingleburn Rd, Ingleburn Parliament Rd between Atchison Rd and	,,	**	8,7
••					
		Harold St, Macquarie Fields	Reconstruction and construction	**	8,7
**		Urban local roads	Annual grant 1976/77	**	84,7
anterbury			-		137,8
•		**		11	
oncord		· ·	11	**	29,0
rummoyne			11	11	36,7
airfield					142,9
		ti .	**	*1	
olroyd		11	••	13	99,0
ornsby		11	••	**	117,4
unters Hill		Urban local roads	Annual grant 1976 / 77	**	18,
urstville		11	•		75,
ogarah			•	11	
•			"	*1	55,
u-ring-gai		••	11	**	154,2
ane Cove			11	,,	34,7
eichhardt		,,	11		73,
iverpool				**	
•		Boula Ca Caiffish Casa	••	11	103,
lanly		Boyle St, Griffith St to			
		Balgowlah Rd, Balgowlah	Reconstruction	11	5,1
11		Munoora St between Grandview St			
		and Ellery St, Seaforth	Restoration of damaged pavement		
		-	* ·	O	5,1
H		Urban local roads	Annual grant 1976/77	**	43,9
larrickville		**	**	,,	97,0
losman		Prince Albert and		•	
-		Queen Sts. Mosman	Reconstruction		
				•	6,1
H		Prince St, Mosman	Kerb, gutter and footpath		
			forming cul-de-sac	11	10.1
		Urban local roads	Annual grant 1976/77		34,7
**				•	34,
		Awaba St from Moruben Rd to Waitovu St	J		
**			in asphalt surface	**	16,2
••					
		Urban local roads	· · · · · · · · ·		52 1
 Jorth Sydney Jarramatta		Urban local roads	Annual grant 1976/77	11	53,1 154,2

Summary of Payments from Grants under the Roads Grants Act on Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(I) COUNTY OF	CUMBERL	LOCAL ROADS — continued AND AREA — continued IAIN ROADS — continued			\$
D iAb		Urban local roads	Appual 22244 076 / 77	Council	99.059
Penrith		Urban local roads	Annual grant 1976/77	Council	•
Randwick		n	11	**	122,547
Rockdale		· • • • • • • • • • • • • • • • • • • •	11	**	91,910
Ryde		**	***	11	103,144
South Sydney		***	vi	**	41,870
Strathfield		Homebush Rd — Redmyre Rd to	Reconstruction and strengthening		
		Albert Rd, Strathfield	existing pavement (1975/76)	***	26,041
,,		Urban local roads	Annual grant 1976 / 77	11	32,679
Sutherland		***	**	11	249,179
Sydney		11	**	11	60,252
Warringah		,,	,,		255,304
Waverley					57,189
Willoughby		"	**		57,189
Windsor		17		19	47,998
		**	••	***	200,160
Wollongong		,,	11	**	62,295
Woollahra			**	11	
			Total Roads other	than Main Roads	3,871,673

(II) COUNTRY URBAN AREA (a) ROADS OTHER THAN MAIN ROADS

Camden	Urban local roads	Annual grant 1976/77	Council	23,488
Greater Cessnock			**	93,953
Kiama	Barney St, Kiama	Reconstruction and		
	•	bituminous surfacing	*1	21,344
	Urban local roads	Annual grant 1976/77		27,573
Lake Macquarie	Flowers Dr, Catherine Hill Bay	Reconstruction and		
,	•	bituminous surfacing	**	17,714*
"		Reconstruction and bituminous		
,,		surfacing (1975 / 76)	*1)	20,425
**	Mt Faulk Rd, Cooranbong	Reinforced concrete box culverts	*	2,239*
,,	Border St, Eraring	Reconstruction and		
,,	•	bituminous surfacing	11	741
· ••	Terrigal St and Russell Rd, Morisset	II.	**	4,086
"	Urban local roads	Annual grant 1976 / 77	**	242,031
	Awaba to Rathmines Rd, Awaba	Reinforced concrete box culvert	71	5,298*
Maitland	Urban local roads	Annual grant 1976/77	11	87,825
Newcastle	Morehead St, Lambton	Reconstruction	11	28,799°
**	From Griffiths Rd to Acacia Ave, Lambton	11	11	64,337
,,	Woodford St, Minmi	D.	11	8,374
"	Angus Ave, Waratah	Reconstruction		43,913*
"	Urban local roads	Annual grant 1976/77	11	183,821
Port Stephens	11	11	11	82,719
Shellharbour	**	···	**	57,189
		Total Roads other th	an Main Roads	819,943

APPENDIX No. 6 — continued COMMONWEALTH AID ROADS FUND Summary of Payments from Grants under the Roads Grants Act on Construction and Maintenance Works

Council		I Grants for and Maintenance Item 5	Restoration of Flood Damage Item 9	Western Division Shires Item 16	Tot
E) SCHEDULE 3 — RURAL LOCAL ROADS					
a) Items 3, 5 and 16 — General Grants and It	tem 9 - Restoration	of Flood Damage			
	\$	\$	\$	\$	\$
bercrombie	84,900	-	-	_	84,90
libury	_	19,777	-	-	19,77
rmidale City	_	-	10,262		10,20
shford	86,100	_	-	-	86,10
allina	_	30,800	-	_	30,80
airanaid arraba	99,800	-	4 = 5 4	10,000	109,80
attuos athurst	88,500	 15 000	4,780	-	93,2
ega	_	15,800 20,500	-	-	15,8
ellingen	141,900	20,500	26,862	_	20,5 168,7
errigan	96,700	_	20,002	<u> </u>	96,7
libbenluke	88,000	_	_	_	88,0
ingara	92,500		_	Ξ	92,5
land	193,771	-	_	_	193,7
laxland	87,774	_	_	_	87,7
lue Mountains	73,274	·	_	_	73,2
ogan	88,500		_	10,000	73,2 98,5
ombala	, 	5,000	-	10,000	5.0 5.0
oolooroo	102,200	-,	17,251*	_ _	84,9
oomi	101,016	-	744	_	101,7
Oorowa	107,900	_	-	_	107,9
oree	108,000		-	_	108,0
ourke	131,100	_	_	10,000	141,1
owral .	_	22,500	-		22,5
rewarrina	94,600	,	3,475*	10,000	101,1
roken Hill	_	15,100	-		15,1
urrangong	91,000	_			91,0
yron	101,200	_		-	101,2
anobolas	112,700	_	-	_	112,7
arrathool	100,900	_	_	10,000	110,9
asino	_	31,300	-	-	31,3
entral Darling	137,800	· -	-	10,000	147,8
obar	138,300	_	_	10,000	148,3
offs Harbour	161,200	-	4,119	· -	165,3
olo	128,000	_	_	_	128,0
onargo	85,500	_	-	_	85.5
ondobolin	_	20,800	_	_	20,8
oolah	85,650	-		_	85,6
oolamon	101,100	-	3,092	_	104,1
ooma	_	8,881	-		8,8
oonabarabran	139,500	. - ·			139,5
conamble	119,600	-			119,6
ootamundra	57,636	-	-	-	57,6
opmanhurst	109,200	_	_	-	109,2
orowa	114,499	-	-	-	114,4
owra	-	14,800	-	-	14,8
rookwell	107,900	-		-	107,9
ulcairn	135,735	-	2,800	-	138,
eniliquin	-	21,400		-	21,4
enman	99,100		50	-	99,1
ubbo	_	14,100	-	-	14,
umaresq	121,000	-	-	-	121,0
ungog	141,700	_	~	-	141,
urobodalia	42,000		-		42,0
orbes	-	19,300	-	-	19,3
ilgandra	97,200	_	-	-	97,2
len Innes	-	23,800			23,
loucester	65,000	_	-	-	65,0
oobang	109,600	_	-	-	109,6
oodradigbee	86,000	_	-	-	86,0
iosford ioulburn City	154,956		-	-	154,9
		16,700			16,7

									Grants for and Maintenance	Restoration of Flood Damage	Western Division Shires	
Council								Item 3	item 5	Item 9	Item 16	Tot
						A. F	104DC -					\$
SCHEDU	ILE 3	— HI	JKA	IL L		AL P	ROADS c	Ontinued G. Bestevation of	Flood Damage — co	ntinued		_
		16 –	Ge	ner	81 G	ran	ts and item	9 - Mestoration of	Flood Damage — co	iiiiiidea		
rafton City									35,200	-	-	35,2
Great Lakes						**		85,400	-	4,650	-	90,0
Freater Ce	ssnoc	k						83,300	-	_	-	83,3
iundagai								114,064		_	_	114,0
Sunnedah								-	15,200	-	-	15,2
Sunning								56,829	-	-	-	56,8
Suyra								91,820	-	-	-	91,8
larden								91,400	-	_	-	91,4
lastings	:							25,061	-	8,753*	-	16,3
lay								95,799	_	_	10,000	105,7
lolbrook								104,575	· -	4,283	-	108,8
lume								117,566	_	-	_	117,5
labo								125,418	-	_	-	125,4
nlay								23,000	_	3,774	-	26,7
rverell				,.				<u> </u>	23,800	_	_	23,8
emalong								116,000	_	_	_	116,0
erilderie								80,000	-	_	_	80,0
unee								· · ·	20,462		_	20,4
empsey								123,000	_	1,820	-	124,8
yeamba								93,516	_	· -	_	93,5
yogle								162,700	_	7,357*	_	155,3
achlan								161,600	_	·	_	161,6
eeton								107,883	_	_	-	107,8
ismore								308,000	16,800	5,000	-	329,8
ithgow					•			_	15,100	-		15,1
iverpool P	lains						·	112,700	-	_	_	112,7
ockhart						,.		80,126		_	_	80,1
yndhurst			•	••				89,700	_	_	_	89.7
facintyre		•		•				120,900	`	_	_	120,9
Maciean				• • •				113,700	_	_	_	113,7
naciean Manilla								110,085	<u>_</u>	_	_	110,0
		• •			• • •	* -	**	162,700	_	_	_	162,7
/lanning			• •	• • •		•		95,300	_	_	_	95,3
Merriwa Ainahall			• •		•			108,364	_	_	_	108,3
Mitchell			•			••		52,500	_	_	_	52,5
Aittagong			•					: *	-	_		99,0
dolong			• •				**	99,000	-	_	_	
Monaro				.,				87,122	-	-	-	87,1
voree .						• •		_	13,600	-	-	13,6
Audgee								113,275	-	-		113,2
Mullumbim	by .							-	14,862	-	_	14,
Mulwaree								160,900	-			160,9
Mumbulla								25,046	-	24*	-	25,0
Murray								95,400	_	-	-	95,4
<i>Aurrumbid</i>	gee							:76,427			_	76,
Murrurundi	i ,							73,054		-	_	73,6
Muswellbro	ok M	unic							2,514	-	_	2,
Nambucca								76,700	_	7,682	_	84,3
Namoi .								156,200	_	-	· –	156,
Narrabri								-	16,600	_	-	16,
larraburra				- 1			**	96,300	_	_	-	96,
Varrandera	ì							105,616	_	-	-	105,
larromine								_	12,700	_	-	12,
lundle							**	85,400	_	-	-	85,
Nymboida								130,300	_	_	_	130,
Oberon								138,974	_	_	_	138,
Orange									12,300	_	_	12,
Parkes			• •			* .		_	13,800	_	_	13,
Parry	•		• •		••		**	247,900	,	-	_	247,
Port Macq	prie.						• •	,	24,800	_	_	24,
Queanbey:							**	-	14,400	_	_	14,
	3''				**	•		<u> </u>	14,000	_	_	14,
Quirindi								_	17.000			,

^{*}Credit

APPENDIX No. 6 — continued COMMONWEALTH AID ROADS FUND Summary of Payments from Grants under the Roads Grants Act on Construction and Maintenance Works

Flood Damage	Chi	
•	Shires	
Item 9	Item 16	Total
		\$
- continued		
-	-	139,728
	-	123,300
-	-	137,000
7,300	-	170,000
-		135,100
-	-	68,370
_	-	93,700 102,500
_	-	98,100
_	_	19,100
, -	_	19,500
_	_	24,018
_	_	171,440
	-	96,600
		134,800
4,139	_	71,170
_	-	105,484
	-	81,300
_	-	162,700
_	-	130,200
_		116,400
_	-	133,779
_		148,872
-	-	29,981
_	-	116,300
_	-	124,900
_	10,000	169,100
-	· -	101,300
_	-	103,300
-	-	107,800
-	-	112,000
_	10,000	130,000
-	_	83,300
-	-	15,900
_	_	104,400
-	_	131,100
158*	-	158
51,300	-	163,600
125*	-	116,375
-	_	94,600
_	-	15,400
		16,400
105,514	100,000	14,961,744
7.5 111 11 11 11 11		
	Constructing	Amount
Construction	Authority	1976/77
		\$
		•
ed and reinforced		
bridge	Council	77,497
		177,205
		38,479
	Total	293,181
		7 27 17 27
e dedication survey	Council	1,700
		4,564
		5,022
	i Otai	11,286
•	e dedication survey	e dedication survey Council ;. ;. ;. Total

APPENDIX No. 6 — continued COMMONWEALTH AID ROADS FUND Summary of Payments from Grants under the Roads Grants Act on Maintenance and Construction Works

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(E) SCHEDULE 3 — RURAL	LOCAL ROADS — continued			\$
(d) Item 14 — Bridge Subsid				
Abercrombie	Caloola Creek on Rockley Newbridge Rd	Steel and concrete composite bridge	Council	39,782
Armidale City	Donnelly St, Armidate — Dumaresq Creek	Prestressed concrete bridge		2,844
Barraba	Crow Mountain Creek on the Pera Rd	Reinforced concrete bridge	.,	5,550
Bingara	Gwydir River at Cooringoora	"	**	13,974
Blaxland	Browns Gap Rd, Blackmans Creek	10	11	23,000
Boree	Bears Bge (Mandagery Creek) on			
	Cudal to Manildra Rd		.,	18,845
Burrangong	Burrangong Creek on Old Forbes Rd	0	11	53,517
Coffs Harbour	North Bonville Rd, Shepherds			
	Creek, 0.96 km north of SH10	Reinforced concrete box culvert	.,	10,851
Cootamundra	Bland Creek on Stockingbingal			
	to Milvale Rd	Reinforced concrete bridge	or and	4,121
Gloucester	Barrington West Rd, Merchants			
	Creek, 4.05 km west of Walcha	Reinforced concrete box culvert	**	36
	Waukivory Rd — Oaky Creek at the			
·	1st and 2nd crossings	11		200*
**	Cut Hill Rd, Sandy Creek	D	••	7,300
Hastings	Saddlers Creek on Stewarts River Rd	Reinforced concrete bridge	**	22,984
Kyogle	Gradys Creek on Gradys Creek Rd	11	**	75,171
Macintyre	Back Creek on Copeton Dam Rd	3 span prestressed concrete girder		
		and concrete deck bridge	*1	11,350
Mumbulla	Illawambra Creek on Yourie Rd	Steel and concrete composite bridge	11	32,950
Narraburra	Trigalong Creek, 9.7 km south-east			
	of Temora on Old Cootamundra Rd	Reinforced concrete box culvert	11	14,100
Nundle	Oakenville Creek at Nundle	Prestressed concrete bridge	**	31,150
Nymboida	Old Glen Innes Rd, O B X Creek	•	**	4,384
Patrick Plains	Singleton — Miranie Rd — Reedy	•		
	Creek, 18.8 km west of Singleton	Reinforced concrete bridge	**	15,000
Scone	Kingdom Ponds on Turanville Rd	13	••	21,000
Snowy River	Dalgety – Jimenenbuen Rd, Stockyard			
	Creek, 3 km south of Dalgety	Reinforced concrete box culvert	٠,	14,500
11	Eucumbene Dam Rd, Biggin Creek	Armco pipe culvert	••	11,000
Tintenbar	Emigrant Creek on Tevan Tintenbar Rd	Prestressed concrete bridge	11	10,207
Uralla	Bundarra Rd — King John Creek	**	11	768
Wagga Wagga	Eastern Bridge over Murrumbidgee River	Prestressed and reinforced		
		concrete bridge	· ·	57,178
Walcha	Ingleba Creek, 31.4 km south of			
	Walcha (Gloucester-Walcha Rd)	Prestressed concrete bridge	16	30,912
Waugoola	Limestone Creek on Canowindra	•		
	to Mandurama Rd	2 span steel girder bridge	,,	32,450
Yallaroi	Gwydir River at Yagobie on			
	Gravesend Biniguy Rd	Reinforced concrete bridge	Council	27,500
	Croppa Creek - North Star Rd,			
и ,	Yallaroi Creek at Tullin Tulla	43		66,315
	· • · · · · · · · · · · · · · · · · · ·		Total	649,697
			i Otal	049,087
(e) item 24 — Maintenance	of Special Subsidy Bridges			
Abercrombie .	Bathurst Monkey Hill Rd			
•	at Macquarie River	Maintenance of Rankins Bridge	Department	7,327
Booloroo	Pallamallawa — Biniguy Railway	•		
	Station Rd at Gwydir River	Maintenance of Pallamallawa Bridge	11	16,859
Boree and Jemalong	Eugowra Forbes — Cowra Rd	Maintenance of Colletts		
	at Lachlan River	Crossing Bridge	11	186
Condobolin	Goobang Creek at Condobolin	Maintenance of Goobang Bridge	11	8,181
Dungog	Dungog – Upper Wangat Rd			
	at Williams River	Maintenance of Bandongrove Bridge	**	190
	Goulburn — Bungonia Rd			
Goulburn		Maintenance of Lansdowne Bridge	11	17,690
Goulburn	at Mulwaree Ponds	Wall to the first of the first	11	
Gundagai and Illabo	at Mulwaree Ponds Junee Tumblong Rd		,,	
		Maintenance of Mundario Bridge	"	2,362
	Junee Tumblong Rd	•		2,362
Gundagai and Illabo	Junee — Tumbiong Rd at Murrumbidgee River	•		2,362 13,2 9 9

APPENDIX No. 6 — continued COMMONWEALTH AID ROADS FUND Summary of Payments from Grants under the Roads Grants Act on Maintenance and Construction Works

City, Municipal or Shire Area	Location of Work	Class of Construction	Constructing Authority	Amour 1976/7
• •	- RURAL LOCAL ROADS - continued			\$
(e) Item 24 — Mair	ntenance of Special Subsidy Bridges — continued			
Jemalong	Waroo - Yarrabinda Rd at Lachlan River	Maintenance of Waroo Bridge	Department	40
Kempsey	West Kempsey — South	Maintenance of Kempsey		
	Kempsey Rd at Macleay River	Railway Footbridge	**	13,99
17	Green Hills Dungay Creek Rd	A4-1-4		0.40
	at Macleay River	Maintenance of Sherwood Bridge	11	2,18
Leeton	Leeton — Eurolie Rd	Maintanana of Functio Bridge		1,18
Maitland	at Murrumbidgee River Lochinvar — Elderslie Rd at Hunter River	Maintenance of Eurolie Bridge	**	30.88
Mudgee	Cullenbone — Cobbora Rd at	Maintenance of Luskintyre Bridge	11	30,00
waagee	Wyaldra Creek	Maintenance of Beryle Bridge		1,88
Nymboida	Grafton — Glen Innes Rd at Orara River	Maintenance of Bawden Bridge	**	3
Port Stephens	Maitland — Eccleston Rd at	Maintonance of Dawdon Shoge	••	`
on otophono	Paterson River	Maintenance of Paterson Bridge	11	4,55
Severn	Glen Innes - Newton Boyd Rd at		"	.,
	Mann River	Maintenance of Mann Bridge	.,	36,45
	Glen Innes – Emmaville Rd at		• •	
	Severn River	Maintenance of Fladbury Bridge	11	1,92
,,	Glen Innes - Newton Boyd Rd at			•
	Henry River	Maintenance of Newton Boyd Bridge	**	18
Singleton	Ravensworth — Coorangoola Rd			
_	at Glennies Creek	Maintenance of Middle Falbrook Bridg	e ,,	18,75
Talbragar	Minore — Coolbaggie			
	Creek Rd at Macquarie River	Maintenance of Minore Bridge	**	49,10
Tweed	Middle Arm of Tweed River	Maintenance of McKenzies Crossing	**	4,64
Ulmarra	Glenreagh Railway Station Rd at			
	Orara River	Maintenance of Glenreagh Bridge	**	10
••	Ulmarra — Tucabia Rd at	Maintenance of Upper		
	Coldstream Creek	Coldstream Creek Bridge	**	3,01
Wellington	Geurie — Arthurville Rd at		i .	
	Macquarie River	Maintenance of Scabbing Flat Bridge	**	2,93
Wollondilly	Picton — Upper Picton Rd at			
	Stone Quarry Creek	Maintenance of Victoria Bridge	**	11,5
			Total	250,0
(f) Item 26 — Con	- 			
Cowra	Cowra	Annual grant 1975/76 (Item 5)	Council	10
Murrurundi	Murrurundi	Annual grant 1975/76 (Item 3)	**	22,2
Shoalhaven	Shoathaven	Annual grant 1975/76 (Item 3)	**	40,0
			Total	62,0
		•		
(g) SUMMARY				
ltem			•	Amou
	·			\$
3	Shires	$(x_1, x_2, \dots, x_n) = (x_1, x_2, \dots, x_n) + (x_1, \dots, x_n) + (x$		14,049,2
5	Municipalities	en e		706,9
8	Bridges to replace ferries	(x_1, x_2, \dots, x_n) , where (x_1, \dots, x_n) , we have (x_1, \dots, x_n) and		293,1
9	Restoration of flood damage	the second of th		105,5
10	Road dedication surveys (1975/76 programme)			11,2
10	Reconstruction of Alpine Way in Kosciusko Nation	• • • • • • • • • • • • • • • • • • • •	• • • • •	200,0
12 14				217,0
14 15	Bridge subsidy scheme Payments to Soil Conservation Service		** **	649,6
16	Market Birlein skins			25,0
23	Western Division shires Developmental roads			100,0
24	Maintenance of special subsidy bridges	and the second of the second o	**	217,6 250,0
	Unclassified roads in unincorporated area of West	tern Division		250,0 150,0
25	_			62.0
	Contingencies			04.U
25 26				- •
	Long service leave for works on developmental ro-			2,0
	•		· 	- •

Summary of Payments from Grants under the Roads Grants Act

SUMMARY	\$	\$
Construction and reconstruction		
Freeways	11,385,898	
State Highways	7,457,839	
Trunk and Ordinary Main Roads	20,865,353	
Secondary Roads	1,259,999	
Developmental Roads		
Roads other than Main Roads	2,256,127	43,765,411
Property acquisitions on Urban Arterial Roads		
Freeways	3,898,296	
State Highways	347,812	
Trunk and Ordinary Main Roads	3,716,197	
Secondary Roads	77,201	
Roads other than Main Roads	442,320	8,481,826
Adjustments to properties		447
Construction, reconstruction and maintenance of Rural Local Roads		17,152,667
Construction and reconstruction of Urban Local Roads		4,691,616
Total as shown in receipts and payments statements — Appendix No. 1(A)		74,091,967

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amour 1976/7
) FREEWAYS					. \$
C astlereagh Freew Rudo	ay F2	Budo	Dublin with adverture	Council	2 76
Ryde	F2	Ryde	Public utility adjustments	Council	3,76
					3,76
Vestern Freeway					
Auburn	F4	Homebush to Clyde	Design by consultants	Department	30
Blacktown	F4	Prospect to Wallgrove Rd, Eastern Creek	Public utility adjustment	Council	52,08
arramatta	F4	Bridge over F4 at Pitt St, Merrylands	Design by consultants	Department	9,78
••	F4	Clyde to Mays Hill	Foundation test boring	11	5
enrith	F4	Bridge over Nepean River at Regentville	Design by consultants	1)	23,3
	F4	Prospect to Regentville	Erection of manproof fencing		
			on freeway boundary	11	75,0
					161,1
			7	otal Freeways	164,8
II)STATE HIGHWA	YS		·		
rinces Highway					
Sutherland	1	Heathcote to Waterfall	Dual carriageway	Department	28,0
	1	Railway overbridge, Acacia St. Sutherland		**	1,5
Vollongong	1	Bulli Pass	Geological investigation of land slips		45,1
*1	1	69.1 km south of Sydney	Relocation of short section of		_
			pavement in unstable area	**	281,4
					356,2
lume Highway ankstown	•	Wiscombo Ctto Dealissed Dd Vennes	Parlament official and other than		
	2 2	Wycombe St to Rookwood Rd, Yagoona	Replacement of failed concrete slab	s Department	10,2
••	2	William St to Dutton St,	Reconstruction and bituminous		_
	2	Yagoona (westbound)	surfacing kerbside lane	• • • • • • • • • • • • • • • • • • • •	2
**	2	Intersection, SH2 and	Farmidation assations	,	
amden	2	Stacey St, Greenacre	Foundation test boring	11	1,6
aniuen	4	Bridge over South Creek, 7.35 km north of Camden	Annanahaa		000.0
iverpool	2	Lot 2 DP516649, south of	Approaches	11	229,3
.iverpool	2	Grahame Ave, Casula	Dining of accounts		
	2	Lachlan St to Campbell St, Liverpool	Piping of easement	11	5,3
11	2	Cowpasture Rd, Leppington	Kerbside lane		300.1
••	2	Prospect Creek, Lansvale to	Improvement to intersection Reconstruction of	"	222,1
,	-	Hinkler Ave, Liverpool			200 7
	2	Australian Jockey Club	damaged pavement	**	280,7
**	-	Sub-division, Warwick Farm	Storage bay access	**	32,0
			o.c. 13 0 01, 100000	**	781,4
irest Western High	way	•			
uburn	5	Rawson Rd to Bombay St, Auburn	Replacement of failed concrete slabs	Department	91,0
uburn					
Burwood	5	Wentworth Rd to Woodville Rd	Replace concrete pavement		
Parramatta		(SH13), Parramatta	at selected locations	by	69,2
llacktown	5	Horsley Rd, Eastern Creek	Improvement to intersection	**	4,4
lue Mountains	5	Selected sections	Reshaping and strengthening		4 000 0
		10 km to 10 km wast of	with asphaltic concrete	**	1,255,6
**	5	18 km to 19 km west of	Slow vehicle lane		
•	5	Penrith at Valley Heights 44.9 km to 45.6 km west of Penrith	SIOW VEHICLE LETTE	"	
**	J	at Wentworth Falls			170,5
	5		Heavy patching	"	171,1
**	5	35.22 km to 96.69 km west of Parramatta	y panoimiy	**	348,3
••	5	Railway overpass at Medlow Bath	Improvement to alignment	11	J-J-,0
**	-	www.passwittenderestill	in western approach	**	1,7
11	5	57.6 km to 59.37 km west of	• •	,,	. •
		Parramatta at Woodford	Reconstruction of overtaking lane	11	4,4
lolroyd	5	Greystanes Rd to	Reconstruction of asphaltic		, -
· - · · - , -	-	Ettalong Rd, Girraween	concrete surface	,,,	239,5
Penrith	5	Brougham St to Divisional		**	,-
•	-	boundary, 6.1 km west of Penrith	Dual carriageway	,,	5
	5	Welfare St to Telopea Ave.	Reconstruction and widening	••	
Strathfield					
Strathfield	•	Homebush	for turning traffic	11	37,7
itrathfield sydney	5	Homebush Harris St, Ultimo to Municipal boundary	for turning traffic Channellisation	 Council	37,7 1,3

APPENDIX No. 7 — continued COUNTY OF CUMBERLAND MAIN ROADS FUND — GENERAL PURPOSES Summary of Payments from Department's Funds on Construction and Reconstruction Works

or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(II) STATE HIGHWA	YS — co	ntinued			\$
Pacific Highway					
Hornsby	10	Leonard St to Edgeworth			
	40	David Ave, Hornsby	Widening	Department	8,414*
••	10	College Cres to Carns St, Waitara	Reconstruction of damaged pavement	11	85,289 93.377
**	10	College Cres, Waitara	Improvement of intersection	••	93,377 12,334
,, Ku-ring-gai	10 10	Yirra Rd, Mt Colah Ryde Rd to Bridge St, Gordon	Provision of right turning bay Additional lane to provide	••	12,334
เรษาแหลานิยเ	10	Nyde na to Bridge St, Gordon	right-turn lanes		3,341
North Sydney	10	Railway overbridge at St. Leonards	Approaches		6,792
Moral Cydney	10	ranway overbridge at St. Leonards	Approaches	**	192,719
State Highway No. 1	3				
Bankstown	13	Villawood Rd, opposite		_	
_		Liewellyn Ave, Villawood	Relocation of junction	Department	92,936
Bankstown	_				
Fairfield	13	Railway overbridge at Villawood	Approaches	**	461
Bankstown	13		Railway overbridge	**	113,609
Hornsby	13	Pennant Hills	Widening of railway overpass	**	5,891
**	13	Loch Maree Ave to			
		Dartford Rd, Thornleigh	Reconstruction of kerbside lanes	11	48
11	13	Pearces Corner to			
		Normanhurst Rd, Normanhurst	Reconstruction of side strips	••	169,125
Parramatta					
Horn s by	13	Maraden Rd to	Six lane carriageway including		
Baulkham Hills		Carlingford Rd, Carlingford	channellised intersections	11	113,671
Parramatta	13	Granville	Railway underpass (work by		
			Public Transport Commission)	11	745•
					494,996
			7 -1-1-04-1		
		*	l otal Sta	te Highways	4,218,613
(III) ORDINARY MA	IN ROAD				
Auburn	190	Leila St, Lidcombe to Amy St,			
		Regents Park	Reconstruction and widening	Council	146,996
**	190	Joseph St from The Boulevarde to			
		Lewis St. Berala	Six lane carriageway	19	59,955
				.,	30,033
**	190	Joseph St near Weeroona Rd	Widening of narrow underpass		,
,,	190		Widening of narrow underpass to suit dual carriageways		145,265
 Bankstown	190 167		-		,
		Joseph St near Weeroona Rd	to suit dual carriageways		,
		Joseph St near Weeroona Rd River Rd to Henry Lawson Dr. Revesby Fairford Rd and Short St. Padstow	to suit dual carriageways Resheeting with asphaltic	"	145,265 773 3
Bankstown ,,	167	Joseph St near Weeroona Rd River Rd to Henry Lawson Dr. Revesby	to suit dual carriageways Resheeting with asphaltic concrete surface	 Department	145,265 773
Bankstown	167 167	Joseph St near Weeroona Rd River Rd to Henry Lawson Dr. Revesby Fairford Rd and Short St. Padstow	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection	 Department ,,	145,265 773 3
Bankstown ,,	167 167 167	Joseph St near Weeroona Rd River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment	Department Council	145,265 773 3 626
Bankstown ,, ,,	167 167 167 167	Joseph St near Weeroona Rd River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment	Department Council	145,265 773 3 626
Bankstown	167 167 167 167	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections	Department Council Department	145,265 773 3 626 8,105
Bankstown	167 167 167 167 190	River Rd to Henry Lawson Dr. Revesby Fairford Rd and Short St. Padstow River Rd to Henry Lawson Dr. Milperra Milperra Rd and Edgar St. Condell Park Boardman St to Auburn Municipal boundary, Bankstown	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway	Department Council Department	145,265 773 3 626 8,105 54,863
Bankstown	167 167 167 167 190	River Rd to Henry Lawson Dr. Revesby Fairford Rd and Short St. Padstow River Rd to Henry Lawson Dr. Milperra Milperra Rd and Edgar St. Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St. Regents Park	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway	Department Council Department	145,265 773 3 626 8,105 54,863
Bankstown	167 167 167 167 190	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport,	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment	Department Council Department Council	145,265 773 3 626 8,105 54,863 6,262
Bankstown	167 167 167 167 190 190 508	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road	Department Council Department Council	145,265 773 3 626 8,105 54,863 6,262
Bankstown Baulkham Hills	167 167 167 167 190 190 508	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and	Department Council Department Council Department	145,265 773 3 626 8,105 54,863 6,262 2,987*
Bankstown Baulkham Hills	167 167 167 167 190 190 508	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing	Department Council Department Council Department Council	145,265 773 3 626 8,105 54,863 6,262 2,967* 5,078
Bankstown Baulkham Hills	167 167 167 167 190 190 508 157	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening	Department Council Department Council Department Council	145,265 773 3 626 8,105 54,863 6,262 2,987* 5,078 970*
Bankstown Baulkham Hills	167 167 167 167 190 190 508 157 160 160	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Cross St to Kerrs Rd, Baulkham Hills	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement	Department Council Department Council Department Council	145,265 773 3 626 8,105 54,863 6,262 2,987* 5,078 970* 1,240
Bankstown "" "" Baulkham Hills "" ""	167 167 167 167 190 190 508 157 160 160	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement	Department Council Department Council Department Council	145,265 773 3 626 8,105 54,863 6,262 2,987° 5,078 970° 1,240 18,375
Bankstown "" "" "" Baulkham Hills "" "" "" "" "" "" "" "" "" ""	167 167 167 167 190 190 508 157 160 160 160	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations	Department Council Department Council Department Council Council	145,265 773 3 626 8,105 54,863 6,262 2,987* 5,078 970* 1,240 18,375 18,417
Bankstown Baulkham Hills	167 167 167 167 190 190 508 157 160 160 160 160 181	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Windsor Rd to Glenorie, Baulkham Hills MR161 to Maroota MR182, Sackville to MR160, Maroota	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching	Department Council Department Council Department Council Council	145,265 773 3 626 8,105 54,863 6,262 2,987* 5,078 970* 1,240 18,375 18,417 6,125
Bankstown "" "" "" Baulkham Hills "" "" "" "" "" "" "" "" "" ""	167 167 167 167 190 190 508 157 160 160 160 160	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching	Department Council Department Council Department Council Department	145,265 773 3 626 8,105 54,863 6,262 2,987* 5,078 970* 1,240 18,375 18,417 6,125
Bankstown Baulkham Hills	167 167 167 167 190 190 508 157 160 160 160 160 181	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota MR182, Sackville to MR160, Maroota Schofields and Commercial Rds, Rouse	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching Reconstruction of damaged pavement	Department Council Department Council Department Council Council	145,265 773 3 626 8,105 54,863 6,262 2,967* 5,078 970* 1,240 18,375 18,417 6,125 55
Bankstown Baulkham Hills	167 167 167 167 190 190 508 157 160 160 160 160 181 184	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota MR182, Sackville to MR160, Maroota Schofields and Commercial Rds, Rouse Hill and Nelson Rd, Box Hill Bridge over Ponds Creek, Kissing	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching Reconstruction of damaged pavement	Department Council Department Council Department Council Department	145,265 773 3 626 8,105 54,863 6,262 2,967* 5,078 970* 1,240 18,375 18,417 6,125 55
Bankstown Baulkham Hills	167 167 167 167 190 190 508 157 160 160 160 160 181 184	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota MR182, Sackville to MR160, Maroota Schofields and Commercial Rds, Rouse Hill and Nelson Rd, Box Hill Bridge over Ponds Creek, Kissing Point Rd, Telopea	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching Reconstruction of damaged pavement Provision of right-turn bays Widening	Department Council Department Council Department Council Department Council	145,265 773 3 626 8,105 54,863 6,262 2,967* 5,078 970* 1,240 18,375 18,417 6,125 55 7,721
Bankstown Baulkham Hills Baulkham Hills	167 167 167 167 190 190 508 157 160 160 160 160 181 184 574	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota MR182, Sackville to MR160, Maroota Schofields and Commercial Rds, Rouse Hill and Nelson Rd, Box Hill Bridge over Ponds Creek, Kissing Point Rd, Telopea Plumpton St to Jersey St, Plumpton	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching Reconstruction of damaged pavement Provision of right-turn bays Widening Asphaltic concrete surfacing	Department Council Department Council Department Council Department	145,265 773 3 626 8,105 54,863 6,262 2,967* 5,078 970* 1,240 18,375 18,417 6,125 55 7,721 1,248
Bankstown Baulkham Hills	167 167 167 167 190 190 508 157 160 160 160 160 181 184	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota MR182, Sackville to MR160, Maroota Schofields and Commercial Rds, Rouse Hill and Nelson Rd, Box Hill Bridge over Ponds Creek, Kissing Point Rd, Telopea Plumpton St to Jersey St, Plumpton Rooty Hill Rd to South Creek,	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching Reconstruction of damaged pavement Provision of right-turn bays Widening Asphaltic concrete surfacing Reconstruction and strengthening	Department Council Department Council Department Council Department Council	145,265 773 3 626 8,105 54,863 6,262 2,967* 5,078 970* 1,240 18,375 18,417 6,125 55 7,721 1,248 69*
Bankstown "" "" "" "" "" "" "" "" "" "" "" "" "	167 167 167 167 190 190 508 157 160 160 160 160 181 184 574	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota MR182, Sackville to MR160, Maroota Schofields and Commercial Rds, Rouse Hill and Nelson Rd, Box Hill Bridge over Ponds Creek, Kissing Point Rd, Telopea Plumpton St to Jersey St, Plumpton Rooty Hill Rd to South Creek, Marsden Park	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching Reconstruction of damaged pavement Provision of right-turn bays Widening Asphaltic concrete surfacing Reconstruction and strengthening of failed pavement	Department Council Department Council Department Council Department Council	145,265 773 3 626 8,105 54,863 6,262 2,967* 5,078 970* 1,240 18,375 18,417 6,125 55 7,721 1,248 69*
Bankstown Baulkham Hills Baulkham Hills	167 167 167 167 190 190 508 157 160 160 160 160 181 184 574 537 537	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota MR182, Sackville to MR160, Maroota Schofields and Commercial Rds, Rouse Hill and Nelson Rd, Box Hill Bridge over Ponds Creek, Kissing Point Rd, Telopea Plumpton St to Jersey St, Plumpton Rooty Hill Rd to South Creek, Marsden Park Short St to Spencer St, Rooty Hill	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching Reconstruction of damaged pavement Provision of right-turn bays Widening Asphaltic concrete surfacing Reconstruction and strengthening of failed pavement Drainage improvement	Department Council Department Council Department Council Department	145,265 773 3 626 8,105 54,863 6,262 2,967* 5,078 970* 1,240 18,375 18,417 6,125 55 7,721 1,248 69* 2,002 5,248
Bankstown Baulkham Hills Baulkham Hills	167 167 167 167 190 190 508 157 160 160 160 160 181 184 574 537 537 537	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota MR182, Sackville to MR160, Maroota Schofields and Commercial Rds, Rouse Hill and Nelson Rd, Box Hill Bridge over Ponds Creek, Kissing Point Rd, Telopea Plumpton St to Jersey St, Plumpton Rooty Hill Rd to South Creek, Marsden Park Short St to Spencer St, Rooty Hill North Pde to Spencer St, Rooty Hill	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching Reconstruction of damaged pavement Provision of right-turn bays Widening Asphaltic concrete surfacing Reconstruction and strengthening of failed pavement Drainage improvement Construction of side strip (west side)	Department Council Department Council Department Council Department Council Department Department	145,265 773 3 626 8,105 54,863 6,262 2,967* 5,078 970* 1,240 18,375 18,417 6,125 55 7,721 1,248 69* 2,002 5,248 114,252
Bankstown Baulkham Hills Baulkham Hills	167 167 167 167 190 190 508 157 160 160 160 160 181 184 574 537 537	River Rd to Henry Lawson Dr, Revesby Fairford Rd and Short St, Padstow River Rd to Henry Lawson Dr, Milperra Milperra Rd and Edgar St, Condell Park Boardman St to Auburn Municipal boundary, Bankstown Brunker Rd to Amy St, Regents Park Bankstown Airport, 0.25 km north of MR167 Cattai Creek Bridge to MR184 (Windsor Rd), Castle Hill Cross St to Kerrs Rd, Baulkham Hills Cross St to Kerrs Rd, Baulkham Hills Windsor Rd to Hill St, Baulkham Hills Glenhaven Rd to Glenorie, Baulkham Hills MR161 to Maroota MR182, Sackville to MR160, Maroota Schofields and Commercial Rds, Rouse Hill and Nelson Rd, Box Hill Bridge over Ponds Creek, Kissing Point Rd, Telopea Plumpton St to Jersey St, Plumpton Rooty Hill Rd to South Creek, Marsden Park Short St to Spencer St, Rooty Hill	to suit dual carriageways Resheeting with asphaltic concrete surface Channellised intersection Public utility adjustment Improvement of intersections Dual carriageway Public utility adjustment Access road Reconstruction and bituminous surfacing Reconstruction and widening Public utility adjustment Reconstruction of failed pavement Heavy patching at selected locations Heavy patching Reconstruction of damaged pavement Provision of right-turn bays Widening Asphaltic concrete surfacing Reconstruction and strengthening of failed pavement Drainage improvement	Department Council Department Council Department Council Department Council Department Council Department	145,265 773 3 626 8,105 54,863 6,262 2,967* 5,078 970* 1,240 18,375 18,417 6,125 55 7,721 1,248 69* 2,002 5,248

APPENDIX No. 7 — continued COUNTY OF CUMBERLAND MAIN ROADS FUND — GENERAL PURPOSES Summary of Payments from Department's Funds on Construction and Reconstruction Works

ity, Municipal r Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	1976/7
H) ORDINARY M					\$
otany	183 194	Maitland Ave to Isaac Smith St, Daceyville Joyce Dr to Millpond Dr, Mascot	Divided dual carriageway Reconstruction of failing pavement	Department	177,66
••	194	•	on southbound carriageway	10	170,05
**		Millpond Dr. Mascot to airport tunnel, Kyeemagh	Asphaltic concrete overlay	11	6,96
**	344	Southern Cross Dr to Bay St, Pagewood (adj. 5th green)	Pedestrian underpass	**	11,21
amden	154	10.4 km to 12.2 km from Campbelltown	Reconstruction and improvement of intersection	Council	6,12
amden	178	Somerset St to Queen St, Narellan	Kerbside lane including kerb and gutte		116,37
ampbelltown	177	15.08 km to 15.85 km south of SH2	Reconstruction and bituminous surfacing	Department	12,52
	177	Moore St to Oxley St, Campbelltown	Deviation	Council	48,99
"	177	Bridge over Fishers Ghost Creek	Deviation	Council	40,00
.,		Junction with MR178	Approaches	Department	2,19
anterbury	315	King Georges Rd and	<u>.</u>		
		Punchbowl Rd, Wiley Park	Channellised intersection	11	133,20
•	315	Intersection with Punchbowl Rd, Lakemba	•	Council	3,75
- 11	315	Railway overpass at Wiley Park	Approaches	Department	101,57
••	315 315	Edge St to Hilton Ave, Lakemba Intersection with Canterbury Rd	Public utility adjustment	Council	39,8
**	313	(MR167), Wiley Park			25,4°
	315	King Georges Rd, Wiley Park	Widening of railway overbridge	Department	194,1
olo	184	26.0 km to 27.4 km west of Windsor	Stengthening of pavement		2,7
oncord	200	Llewellyn St to Ryde Bridge, Rhodes	Public utility adjustment	Council	8,4
rummoyne	165	Intersection with	Left and right-turn lanes		ŕ
		Westbourne St, Drummoyne	and bus bay	Department	6,4
	165	Intersection with Westbourne St	Public utility adjustment	Council	4
irfield	609	Fairfield St to Alan St, Fairfield	Improvement of intersection	Department	162,8
ornsby	156	New Line Rd to Victoria Rd, Pennant Hills	Dual carriageway	Council	67,3
•	156	MR160 to Highs Rd, West Pennant Hills	Reconstruction and widening	11	100,1
	161	Selected lengths through Galston Gorge	Improvement to curves	**	3,0
••	161	1.0 km west of Galston Gorge	Repairs to slip	*1	34,2
***	373	Terrys Creek to Crandon Rd, Epping	Dual carriageway	Department	5,0
**	373	Midson Rd to Ray Rd, Epping	Reconstruction and asphaltic		٠,٠
		-, -, -, -, -, -, -, -, -, -, -, -, -, -	concrete surfacing	Council	78,1
urstville	168	Edith Creek, Lugarno	Stormwater drainage		7,3
,,	168	Belmore Rd to Lime Kiln Rd, Lugarno	Drainage improvement	**	4,2
	168	Forest Rd from Mavis Ave to	Reconstruction including intersection		
		Foreshaw Ave, Riverwood	with Stoney Creek road	**	97,9
0	168	Mavis Ave to Collaroy Ave, Peakhurst	Public utility adjustment		147,7
*1	168	Valentia Ave, Lugarno	Reconstruction including		•
			kerb and gutter	**	20,0
	508	Henry Lawson Dr from MR168 to	Reconstruction and asphaltic		
		Hymen St, Peakhurst	concrete surfacing	111	98,4
u-ring-gai	162	Cultowa Rd to Ridge St, Pymble	Dual carriageway	Department	43,4
	366	Nambucca St to SH10, Turramurra	Reconstruction and widening	Council	50,
ane Cove	166	Burns Bay Rd and Penrose St	Provision of right-turn bay	_	
			at intersection	Department	114,4
eichhardt	165	Bridge over Iron Cove at Drummoyne	Design by consultants	11	1,
	523	From Booth St to	Reconstruction and	Ca.,.a.;;	20.4
iverneel	154	Parramatta Rd, Camperdown Bridge over Thompsons Creek,	bituminous surfacing	Council	30,0
iverpool	134	1.6 km north of Bringelly	Approaches		73,4
	154	Approaches to bridge over	Approaches	11	
**	154	Thompsons Creek	Public utility adjustment	11	2,2
**	154	Thompsons Creek near		,,	
,,		Badgerys Creek Rd, Bringelly	Prestressed concrete bridge	**	57,
**	535	Judds Hill, 0.7 km to 2.38 km		,,	
		west of MR515	Reconstruction and widening	**	9,
larrickville	167	Livingstone Rd to Marrickville Rd,	Reconstruction and		·
		Lewisham	bituminous surfacing	**	24,
fosman	164	Glover St, Cremorne to			
		Clifford St, Spit Junction	Dual carriageway	Department	
'arramatta	139	In Beecroft Rd, Epping, north of Bridge St	Footpath reconstruction	Council	2,

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(III) ORDINARY MA	IN ROADS	- continued			\$
Parramatta	158	Victoria Rd, Ermington to	Reconstruction, bituminous		
Ryde		Stewart St, Eastwood	surfacing and surface drainage	Department	1,558
Parramatta	165	Pemberton St to McArthur St, Parramatta	Three lane carriageway	11	122,335
	184	By St to Briens Rd, Northmead	Dual carriageway	1.5	100,216
Parramatta					
Blacktown					
Windsor	184	SH13 Parramatta to Western	Resheeting of selected lengths		
Colo		Colo Shire boundary	with asphaltic concrete	11	363*
Parramatta	184	Bridges over North Rocks Rd, Darling			
		Mills Creek and Lake Parramatta access	Design by consultants		24,709
Parramatta	574	Marsden Rd to Kissing Point Rd Dundas	Reconstruction and widening	Department	76,295
Penrith	154	F4 at Orchard Hills to Kings Hill Rd Mulgoa			673
11	155	Jamison St to Batt St Penrith	Reconstruction and	<u>.</u>	
			bituminous surfacing	Council	59,631
**	155	Boundary Creek 1.11 km north of SH5	Reconstruction of culvert	***	2,450
11	155	11.6 km north of SH5	Two cell reinforced		
			concrete box culverts	11	13,475
**	155	Batt St to Rodley Ave Penrith	Reconstruction and widening	11	96,237
н	535	3.54 km to 5.47 km east of MR154	Reconstruction and		
			bituminous surfacing	Department	24,300
**	536	F4 to Luddenham Rd Erskine Park	**	1+	88,097
Randwick	171	Flint St to Beauchamp Rd Matraville	Six lane divided carriageway	***	230,372
Rockdale	194	Cooks River to Bestic St Kyeemagh	Kerb and guttering and		
			sealing kerbside lanes	Council	27,562
	194 &	Intersection of Grand Pde &			
	2079	President Ave Brighton-le-Sands	Public utility adjustment	11	6,011
11	194 &				
	2079	President Ave Brighton-le-Sands	Channellisation of intersection	· u	3,871
Ryde	158	Morris St Eastwood to SH13 Carlingford	Dual carriageway	Department	136,126
,,	162	Goulding Rd to Epping Rd Ryde			81,918
11	162	Waterloo Rd North Ryde	Improvement of intersection	**	64,801
п	162	Blaxland Rd to Pittwater Rd North Ryde	Public utility adjustment	Council	39,675
11	162	Epping Rd to Fontency Rd North Ryde	Dual carriageway	Department	31,307
**	165	Bellevue Rd to Glenayr Ave West Ryde	Asphaltic concrete surfacing	**	34,708
11	191	Lane Cove River to			
		Crematorium Fullers Bridge	Third lane	Council	138,748
**	200	Church St to Riverside Ave Ryde	Reconstruction of damaged		
			concrete pavement	Department	18, 486
11	200	Well St to Ryde Bridge Ryde	Amplification of drainage system	11	3691
11	200	Devlin St to Church St Ryde	Reconstruction of damaged		
			concrete pavement	*1	11,015
1)	373	MR191 Dehli Rd to MR139			
		Blaxland Rd North Ryde	Public utility adjustment	Council	1,236
South Sydney	170	Cleveland St and Regent St Redfern	Channellised intersection	11	1'
,,	170	Regent St and Redfern St Redfern	11	**	508
	170	Cleveland St to Boundary St Redfern	Public utility adjustments	11	442
Strathfield	315	Redmyre Rd to Carrington Ave Strathfield	Asphaltic concrete resurfacing	*,	22,738
"	315	Raw Square underpass	Proposal to alleviate flooding	*1	1,960
11	318	Parrametta Rd to Arthur St Homebush	Retaining walls at		
			railway overbridge approaches	Department	58,522
,,	318	Main suburban railway line at			
,,		Marlborough Rd Homebush	Prestressed concrete bridge	11	12,635
**	318	SH5 to Arthur St Homebush	Public utilities adjustment -		
			P.M.G. Department	Council	33,348
**	318	Bridge over main suburban railway			
		line Marlborough Rd Homebush	Design by consultants	Department	10,954
Sutherland	227	Jackaranda Rd Caringbah to			
		Croydon St Cronulla	Dual carriageway	Council	9,271
**	227	Jackaranda Rd Caringbah to			
••		Croydon St Cronulla	Public utility adjustment		38,733
,,	227	The Kingsway and Cronulla St Cronulla	Channellised intersection	**	830
"	227	Wandella Rd to Kareena Rd Miranda	Public utility adjustment	14	2,372
"	227	SH1 to Port Hacking Rd Miranda	Dual carriageway	**	104,919
Sydney	171 &	Anzac Pde Alison Rd and	• ,		
-,,	327	Dacey Ave Kensington	Improvement of intersection	**	3,185
	593	Flinders St to Crescent Moore Park	Public utility adjustment		49,498
11					

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
III) ORDINARY M	AIN ROAD	S - continued			\$
Warringah	162	Forest Way Terrey Hills	Channellised intersection	Department	2,742
,,	162	St. ives to Mona Vale	Photogrammetric survey		7,415
••	164	Down stream side of four cell box	,		
		culvert opp Warringah Mall	Elimination of scour	Council	39,181
	164	Turrimetta St to The Avenue Newport	Public utility adjustment	**	88,807*
11	164	Campbell Pde to Kenneth Rd Manly Vale	Dual carriageway	"	24,499
	164	Kenneth Rd to Campbell Pde Manly Vale	Public utility adjustment	11	93,415
Warringah	164	Bassett St to Bardo Rd Newport	Reconstruction and widening	Department	24,627
	328	Wakehurst Parkway to Daines Pde	Troconomical and Micoling		,
"	020	Beacon Hill	Dual carriageway		26
	328	Northern approach to Roseville Bridge	Rock-bolting and guniting of batter	**	64,732
***	529	Frenchs Forest to Terrey Hills	Photogrammetric survey	11	2,035
 Willoughby	191	Intersection with Millwood Ave and	Thotogrammetric sorvey	11	2,000
villoughoy	101	Fullers Rd Chatswood	Public utility adjustment	Council	7,022
Windsor	`184	Paget St to Toxana St Richmond	Kerb and gutter and drainage		8,575
Williasor	184	-		.,	6,3/3
**	104	0.5 km west of MR154 at Windsor to Clarendon	Improvement to approaches to	Danada	000 011
	404		Bridge over Rickabys Creek	Department	200,211
**	184	Bridge over South Creek at			=
		Bridge St Windsor	Widening of approaches	**	79,965
••	184	Bridge over First Ponds Creek Vineyard	Excavation of channel	**	13,401
**	184	Deviation from Groves Ave Mulgrave			
		to Forbes St Windsor	Hydraulic model study	**	4,663
.,	537	Bridge over Rickabys Creek	Design by consultants	*1	10,075
**	537	Lennox St to March St Richmond	Sealing of side strip	11	332
Wollondilly	177	Kings Falls Bridge 31.46 km to			
		32.14 km south of SH2	Western approach	Council	1,166
10	177	Intersection with road to Westcliffe			
		Colliery 6.1 km south of Appin	Reconstruction and additional lanes	**	43,382
11	177 &	•			
	610	Appin township	Improvement of intersection		96,034
Woollahra	339	Intersection with New South			
		Head Rd Vaucluse	Channellisation	,,	12,007
					
(Iv) SECONDARY	POADS		Total Ordinary	Main Hoads	5,221,343
Ashfield	2028	Lackey St to SH2 Summer Hill	Widening, kerb and gutter	Council	42,874
	2028	Lackey St to Smith St Summer Hill		Council	42,8/4
11	2020	Lackey St to Smith St Summer Him	Reconstruction and widening		404 740
	2056	Debraud Ede from Cross Ave	to four lanes (Section B)	*1	134,746
16	2030	Dobroyd Pde from Crane Ave	Reconstruction and asphaltic		7 044
D = -14	0000	to Boomerang St Haberfield	concrete surfacing	H	7,841
Bankstown	2068	Intersection the River Rd and			
4		Prince St Revesby	Reconstruction and widening	11	24,499
**	2068	Neptune St to Sandakan Rd Revesby		11	28,245
51	2068	Sandakan Rd to Prince St Revesby	n	**	21,069
**	2090	Wentworth St to Roberts Rd Greenacre	Reconstruction and sealing	11	36,749
17	2090	Punchbowl Rd to Wentworth St Chullora	Public utility adjustment	**	11,937
**	2094	SH2 to Rookwood Rd Yagoona	Heavy patching at selected locations	11	12,250
Blacktown	2084	Intersection SR2084 and			
		Abbott Rd Seven Hills	Reconstruction of intersection	,,	104,122
**	2084	Railway overbridge at Seven Hills	Public utility adjustment	11	1,120
,,	2084	Intersection with Wall Park Ave Blacktown	Improvement		11,025
	2084	Railway overbridge at Seven Hills	Public utility adjustment	**	44,521
	2085	Intersections with Lyton St and	, ,	.,	* *,,== *
**		Davis Rd Blacktown			28,735
	2085	SH5 to Leabons L Prospect	Reconstruction and	11	20,700
*1	2000	on a to reasons remoder	bituminous surfacing		15,312
	2085	Lyton St to Davis St Blacktown	•	**	•
**	2085	· _	"	"	498
**	2000	Intersection with Davis Rd and	Modella californa altria		
	0000	Lyton St Blacktown	Public utility adjustment	11	636
••	2085	Patrick St from Newton St to			
		Alpha St Blacktown	Kerb and guttering and drainage	**	5,512
**	2085	SH5 to Church L Prospect	Reconstruction and		
			bituminous surfacing	11	18,375
	2085	Intersection SR2085 and Seven			
		Hills Rd South Blacktown	Temporary improvement	11	5,329
		a	Department of the second contribution in a		9,983
	2085	Church L to Leabons L Seven Hills	Reconstruction and widening	**	8,300

ity, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing -Authority	Amou 1976/7
IV) SECONDARY	ROADS -	continued ·			\$
Blacktown	2085	Eastern Creek, Blacktown	Prestressed concrete bridge		
			sidetrack construction	Council	18,37
anterbury	2014	Northcote St to Canterbury Rd, Campsie	Public utility adjustment		40,36
Concord	2059	Burwood Rd to Loftus St, Concord	Reconstruction and		,
0110010	2000	Dai Wood Tid to Londs of, Comosid	bituminous surfacing		44,22
rummavaa	2059	William St to Regatta Rd, Five Dock	Reconstruction and asphaltic	**	~ ~ , .
rummoyne	2059	william St to negatia no, rive bock	•		4,90
			concrete surfacing	*1	
,,	2059	St Lukes Park to MR395, Concord	Public utility adjustment	**	3,10
n	2095	Hythe St to Marlborough St, Drummoyne	Reconstruction and widening	**	1,94
airfield	2071	Kenyons Bridge over			
		Prospect Creek, Smithfield	Southern approaches	Department	50,6
n	2088	Dublin St to O'Connell St, Smithfield	Reconstruction of pavement	Council	68,5
17	2088	Bourke St to Gipps St, Fairfield	Drainage and pavement		30,0
	2088	Bourke St to Gipps St, Smithfield	Public utility adjustment	**	24,9
••	2088	From Gipps St to Bourke St, Smithfield	Reconstruction and	.,	•
F1	2000	Trom dipps of to boarke of, officially	bituminous surfacing		47,7
alaa.ad	2074	Old Brown at Bolto Baton Ava	Diturninous surfacing	**	41,1
olroyd	2071	Old Prospect Rd to Bates Ave,	D		20.0
		South Wentworthville	Reconstruction of eastern shoulder	**	22,0
**	2071	Bridge over Prospect Creek at Smithfield	Northern approach	**	12,2
	2071	Bridge over Sydney water supply line	Design by consultants	Department	9,4
olroyd	2071	Kenyons Bridge over			
Fairfield		Prospect Creek, Smithfield	Public utility adjustment	Council	1
ornsby	2035 &	•			
,	160	Intersection SR2035 and MR160, Dural		11	13,6
unters Hill	2052	Princes St to High St, Hunters Hill	Reconstruction of kerbside lanes		10,4
	2070	Longueville Rd and River Rd,	11000110110011011011001100110011001	11	
ane Cove	2070	-	Improvement of intersection		25,4
		West Lane Cove	Improvement of intersection	· · ·	23,4
"	2070	Intersection of Longueville Rd and			
		Kenneth St, Lane Cove	Public utility adjustment	u	58,9
**	2092	Epping Rd to Mowbray Rd, Lane Cove	Reconstruction and widening	(1	93,€
	2092	Epping Rd to Mowbray Rd,			
		West Lane Cove	Public utility adjustment	11	78,3
eichhardt	2046	James St to Balmain Rd, Leichhardt	Public utility adjustment	**	7,9
	2046	Mary St to Balmain Rd, Leichhardt	Reconstruction and asphaltic		
,,	2040		concrete surfacing		40,4
	2046	James St to Balmain Rd, Lilyfield	Public utility adjustment	t+	3,4
"		-	r done dunty adjustment	н	٠,٠
**	2046 &		Chanadina and interpretion		44
	2056	James, Mary and Perry Sts, Lilyfield	Channellised intersection	••	44,4
**	2073	Minogue Cres near Harold Park			
		Raceway, Forest Lodge	Median strip		•
losman	2036	McPherson St to Spit Rd, Spit Junction	Pavement strengthening	**	5,3
lorth Sydney	2091	Brook St to SH10, St Leonards	Public utility adjustment	**	3,1
arramatta	2049	Wentworth St to Station St, Parramatta	Reconstruction and		
4	50.0		bituminous surfacing		61,2
enrith	2048	Austin Anderson Ltd	Replace culvert with reinforced	**	.,.
en ir itti	2046	Austin Anderson Lia	•		2,4
			concrete box culvert	· ·	2,-
	2063	Cranebrook Rd, Cranebrook to the			
		Driftway Agnes Banks	Widening and sealing		36,
16	2063	Cranebrook Rd, Llandilo to the			
		Driftway Londonderry	Widening and bituminous surfacing	11	20,
Rockdale	2014	Forest Rd to SH1, Rockdale	Public utilities adjustment	*1	23,
**	2014	The Seven Ways, Rockdale	Channellisation of intersection	,,	3,
	2080	Intersection SR2080 and			•
**		Sandringham St, Ramsgate	Improvement		11,
Ruda	2024	Blaxland Rd and Ball Ave, Eastwood	Channellised intersection	111	4,1
Ryde					
**	2052	Kittys Creek, East Ryde	Prestressed concrete bridge	••	9,8
n	2058	0 km to 1.3 km south of MR373	Reconstruction and widening		
			to four lanes	••	36,
**	2081	Shaftsbury Rd to Ryedale Rd, Eastwood	Public utility adjustment	**	22,
	2081	Bridge over Northern Railway,			
		Eastwood	Approaches	11	55,
**	2081	Eastwood Railway overbridge			
**					3,

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(iv) SECONDARY	ROADS -	continued	······································		\$
Strathfield	2087	SH2 to Cooks River	Drainage scheme	Council	264
**	2087	Hume Highway to Ada St.			
		Strathfield	Reconstruction and widening		59,084
Sutherland	2075	Fenton Ave to Elouera Rd,	Reconstruction and asphaltic		,
		Caringbah	concrete surfacing	**	80,848
Willoughby	2092	Epping Rd to Mowbray Rd,			
		West Lane Cove	Public utilities adjustment	Council	17,148
11	2093	Ashley St to Boundary St, Roseville	Reconstruction of kerbside lane	11	10,995
Vindsor	2030 &				
	182	George and Bridge Sts, Windsor	Improvement of intersection	Department	1,924
**	2063	Londonderry Rd to Paget St, Richmond	Kerb gutter and drainage	Council	10,883
*1	2063	2.0 km to 2.7 km south of Richmond	Reconstruction and drainage		11,044
			Total Sec	condary Roads	1,647,945
(v) TOURIST ROA					
Baulkham Hills	4006 4006	Wisemans Ferry to Lower Portland	Reconstruction and widening	Council	12,862
**	4000	Between Wisemans Ferry and Lower Portland			12,250
		Lower Portiand	**	. 11	
			Total	Tourist Roads	25,112
(w) BOARS OTHE	D TUAN M	AIN BOARS		i	
(vi) ROADS OTHE Bankstown	או מאברו ה		Annracchas	Department	346,244
		Overbridge at Henry Lawson Dr	Approaches Popier by consultants	•	862
 Baulkham Hills		Bridge over Clancy St, Padstow	Design by consultants	ы	002
Parramatta		Bridge over CR5037 at	Fabrication and delivery to		40.031
Parramatta Baulkham Hills		Windsor Rd, Northmead	site of steel girders	1)	40,03
Daulknam milis		Bridge over North Rocks Rd, North Parramatta	Prestressed concrete steel deck brid	400	161,883
		Old Windsor Rd, 1,56 km to 3.83 km	Frestressed Concrete steel deck brit	1ge .,	101,000
**		north of Seven Hills Rd	Public utility adjustment	Councit	11,886
Fairfield		North Liverpool Rd to Mount St, Bonnyrigg		Council	11,000
ramieiu		North Liverpool Ha to Mount St, Bonnyngg	bituminous surfacing		21,089
Liverseel		Hoxton Park Rd from Flowerdale Rd	bituminous surfacing	**	21,00
Liverpool		to Hill Rd			1,719
		• • • • • • • • • • • • • • • • • • • •	••	**	1,713
н		Hoxton Park Rd from Gillespie St to Flowerdale Rd, Liverpool	Asphaltic concrete surfacing		52.429
Parramatta		Hunts Creek at North Parramatta	Reinforced concrete box culvert	Department	7,571
Parramaπa Penrith		F4 to SH5 Emu Plains — River Rd		Department Council	15,312
r e nnigi		Station St. Emu Plains — River Rd	Widening Polosition	Council	2,058
 Sutherland		•	Relocation Widening	Department	2,058 36,40°
Junenanu		Railway overpass, Acacia St, Sutherland	-	•	
			Total Roads other the	an Main Roads	884

SUMMARY			Works Expenditure S	Property Acquisitions S
Freeways			164,871	1,238,498
State Highways			4,218,613	53,439
Ordinary Main Roads		40 A	5,221,343	912,179
Secondary Roads			1,647,945	169,107
Tourist Roads		4	25,112	_
Roads other than Main Roads			884	645,037
			11,278,768	3,018,260
Miscellaneous, minor works etc.			962,568	1,646,799
Total (including administration) as show	wn in receipts and payr	ments statements —		
Appendix No. 1(B)(i)			12,241,336	4,665,059

^{*}Credit

APPENDIX No. 7A COUNTY OF CUMBERLAND MAIN ROADS FUND — SPECIAL PURPOSES

North Western Freeway Sydney F3 Darling Harbour Goods Yard F5 F3 Darling Harbour Goods Yard F5 Darling Harbour Goods Yard F6 Darling Harbour Goods Yard F7 D	City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
North Western Freeway North Western Freeway Sydney F3 Darling Harbour Goods Yard F4 Darling Harbour Goods Yard F5 Darling Harbour Goods Yard F6 Darling Harbour Goods Yard F7 Darling Harb	<u> </u>					\$
torth Western Freeway lydney F3 Darling Harbour Goods Yard Foundations and substructures for vaduct — Stage 18 Department F3 Darling Harbour Goods Yard Foundations and substructures for vaduct — Stage 18 Department F3 Darling Harbour Goods Yard Foundations and substructures for vaduct — Stage 18 Department F3 Darling Harbour Goods Yard Foundations and substructures for vaduct — Stage 18 Department F3 Darling Harbour Goods Yard Foundations and substructures for vaduct — Stage 18 Substructures in Carling Harbour Goods Yard Foundations and substructures for vaduct — Stage 18 Substructures in Carling Harbour Goods Yard Foundations and substructures for vaduct — Stage 10 Substructures in Darling Harbour Goods Yard Foundations set works for vaduct — Stage 10 Service road Foundations set works for vaduct — Stage 10 Service road Foundations set works for vaduct — Stage 10 Service road Foundations set works for vaduct — Stage 10 Service road Foundations set works for vaduct — Stage 10 Service road Foundations set works for vaduct — Stage 10 Service road Foundations set works for vaduct — Stage 10 Service road Foundations substructures, vaducts and associated works Foundations substructures in Vaduct — Stage 10 Foundations substructures for vaduct — Stage 10 Foundations substructures for vaduct — Stage 10 Foundations and substructures for vaduct — Stage 10 Foundations substructures for vaduct — Stage 10 Foundations and substructures for vaduct — Stage 10 Foundations s	-					
to Miller St Construction Department Construction Department	•	F1	Northern end of Sydney Harbour Bridge			
Corth Western Freeway Grown Western Goods Yard Grown Western Freeway Grown Western Goods Yard Grown Western Freeway Grown Western Goods Yard Grown Western We			· · ·	Construction	Department	354,230
Corth Western Freeway Grant Western Freeway F3					•	354,230
F3						001,200
ydney F3 Darling Harbour Goods Yard Foundations and substructures for vaduct — Stage 18 Department F3 Darling Harbour Goods Yard Bathurst Street utility tunnel Foundations and substructures for vaduct — Stage 1 A Substructures in Darling Harbour Goods Yard Miscellaneous site works for vaduct — Stage 1 C Service road Face of Substructures for vaduct — Stage 1 C Service road Face of Substructures in Darling Harbour Goods Yard Miscellaneous site works for vaduct — Stage 1 C Service road Face of Substructures in Darling Harbour Goods Yard Public utility adjustment — Postmaster General's Department Supply precast COL segments. Darling Harbour Goods Yard Public utility adjustment. Sydney County Council Prestressing of pier headstocks Prestressing of pier headstocks Prestressing of pier headstocks and associated works and sasociated works and substructures for viaduct — Stage 2 C Foundations and substructures for viaduct — Stage 3 Substructures for viaduct — Stage 3 Substructures for viaduct — Stage 5 Public utility adjustment — Sydney Cytic Council — Sydney Cytic Council — Sydney Cyti	orth Western Free	uev.				
F3		•	Darling Harbour Goods Yard	Foundations and substructures		
F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1.4 A Substructures in Darling Harbour Goods Yard Miscellaneous site works for viaduct — Stage 1.6 F3 Darling Harbour Goods Yard Miscellaneous site works for viaduct — Stage 1.6 F3 Darling Harbour Goods Yard Service road Public utility adjustment — Postmaster General's Department Supply precast COL segments, Darling Harbour Goods Yard Public utility adjustment — Postmaster General's Department Supply precast COL segments, Darling Harbour Goods Yard Public utility adjustment, Sydney County Council Parbour Goods Yard Public utility adjustment, Sydney County Council Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Public utility adjustments M W S & D B. Prestressing of pier headstocks F3 Darling Harbour Goods Yard Public utility adjustments M W S & D B. Prestressing of pier headstocks F3 Darling Harbour Goods Yard Public Utility adjustments M W S & D B. Prestressing of pier headstocks F3 Darling Harbour Goods Yard Public Utility adjustments M W S & D B. Prestressing of pier headstocks F3 Darling Harbour Goods Yard Foundations, substructures, viaducts and associated works and asso			•	for viaduct — Stage 1B	Department	115,325
for viaduct — Stage 1 A Substructures in Darling Harbour Goods Yard Miscellaneous site works for viaduct — Stage 1 C Service road Miscellaneous site works for viaduct — Stage 1 C Service road Darling Harbour Goods Yard Service road Darling Harbour Goods Yard Substructures in Darling Harbour Goods Yard Service road Darling Harbour Goods Yard Supply precast COL segments, Darling Harbour Goods Yard Public utility adjustment Darling Harbour Goods Yard Public utility adjustment, Sydney County Council Prestressing of pier headstocks Foundations, substructures, viaducts and associated works Darling Harbour Goods Yard Public utility adjustments M.W. S. &D. B. Prestressing of pier headstocks Public utility adjustments M.W. S. &D. B. Prestressing of pier headstocks Prestressing of pier headstocks Prestressing of pier headstocks Public utility adjustments M.W. S. &D. B. Prestressing of pier headstocks Prestressing of pier h	,,	F3	Darling Harbour Goods Yard	Bathurst Street utility tunnel		13,000
## Substructures in Darling Harbour Goods Yard Hiscellaneous site works for viaduct — Stage 1 C Service road Public utility adjustment — Postmaster General 3 Department Supply precast COL segments, Darling Harbour Goods Yard Public utility adjustment — Postmaster General 3 Department Supply precast COL segments, Darling Harbour Goods Yard Public utility adjustment, Sydney County County Council (**) ### F3 Darling Harbour Goods Yard Public utility adjustment, Sydney County Council (**) ### F3 Darling Harbour Goods Yard Public utility adjustment, Sydney County Council (**) ### F3 Darling Harbour Goods Yard Prestressing of pier headstocks And Society Works (**) ### F3 Darling Harbour Goods Yard Public utility adjustments M.W.S. & D.B. Prestressing of pier headstocks And Society Works (**) ### F3 Darling Harbour Goods Yard Public utility adjustments M.W.S. & D.B. Prestressing of pier headstocks Public utility adjustment M.W.S. & D.B. Prestressing of pier headstocks Public utility adjustment M.W.S. & D.B. Prestressing of pier headstocks Public utility adjustment M.W.S. & D.B. Prestressing of pier headstocks Public utility adjustment M.W.S. & D.B. Prestressing of pier headstocks Public utility adjustment M.W.S. & D.B. Prestressing of pier headstocks And associated works Proundations, substructures viaducts and associated works Proundations, substructures of viaduct — Stage 1 C Poundations and substructures of viaduct — Stage 1 C Poundations and substructures of viaduct — Stage 1 C Poundations and substructures of viaduct — Stage 2 Poundations and substructures Proundations Proundations Proundations Proundations Proundations Proundations Proundatio	н	F3	Darling Harbour Goods Yard			
Harbour Goods Yard Is P3 Darling Harbour Goods Yard Public utility adjustment, Sydney County Council P3 Darling Harbour Goods Yard P4 Public utility adjustment, Sydney County Council P5 Pathurst Starea (8) Is P3 Darling Harbour Goods Yard P5 Darling Harbour Goods Yard P6 Darling Harbour Goods Yard P7 Pestressing of pier headstocks P6 Darling Harbour Goods Yard P6 Pestressing of pier headstocks P6 Darling Harbour Goods Yard P6 Darling Harbour Goods Yard P7 Pestressing of pier headstocks P6 Darling Harbour Goods Yard P6 Darling Harbour Goods Yard P7 Darling Harbour Goods Yard P7 Darling Harbour Goods Yard P8 Darling Harbour Goods Yard P9 Darling Harbour Goods		=-		-	**	9.099
min F3 Darling Harbour Goods Yard for winduct — Stage 1C Segments. F3 Darling Harbour Goods Yard Service road Public utility adjustment — Postmaster General's Department Supply precast COL segments. F3 Darling Harbour Goods Yard Public utility adjustment — Postmaster General's Department Supply precast COL segments. Darling Harbour Goods Yard Public utility adjustment. Sydney County Council Prestressing of pier headstocks Sydney County Council Prestressing of pier headstocks Poundations, substructures, viaducts and associated works and associated works and associated works public utility adjustment Public	**	F3	North Western Freeway	•		595,757
for viaduct — Stage 1 C Provint St, Sydney to Bridge Rd, Glebe Druitt St, Sydney to Bridge Rd, Glebe Darling Harbour Goods Yard Supply precast COL segments, Darling Harbour Goods Yard Public utility adjustment Darling Harbour Goods Yard Public utility adjustment Darling Harbour Goods Yard Public utility adjustment Darling Harbour Goods Yard Public utility adjustment Darling Harbour Goods Yard Prestressing of pier headstocks Poundations, substructures, viaducts and associated works Darling Harbour Goods Yard Prestressing of pier headstocks Prestressing of pier h		E3	Darling Harbour Goods Vard		*1	383,737
F3 Darling Harbour Goods Yard F4 Darling Harbour Goods Yard F5 Darling Harbour Goods Yard	**	ru	Daning Harbour Goods Fard	_		6,632
F3 Darling Harbour Goods Yard Suphic Ridge Rd, Glebe F3 Darling Harbour Goods Yard Suphic Rational Suphic Paths and Suphic County Council F3 Darling Harbour Goods Yard Public utility adjustment. Sydney County Council F3 North Western Freeway — Foundations, substructures, viaducts and associated works F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Foundations abustructures, viaducts F3 Darling Harbour Goods Yard Foundations and substructures F3 Darling Harbour Goods Yard Foundations and substructures F3 Darling Harbour Goods Yard Foundations and substructures F4 Darling Harbour Goods Yard Foundations and substructures F5 Darling Harbour Goods Yard Foundations and substructures F5 Darling Harbour Goods Yard Foundations and substructures F5 Darling Harbour Goods Yard Foundations and substructures F6 Waterfall Tollwork Foundations Administrative building F6 Waterfall Tollwork F6 Waterfall Tollwork F7 Public Utility adjustment F7 F6 Waterfall Tollwork F7 F6 Waterfall Tollwork F7 F6 Waterfall Tollwork F7		F3	Darling Harbour Goods Yard			230,202
Postmaster General's Department Supply precasts COL segments, Darling Harbour Goods Yard Supply precasts COL segments, Darling Harbour Goods Yard Public utility adjustment, Sydney County Council Pasthurst St area (B) Substructures, viaducts Bathurst St area (B) Substructures, viaducts Adelaide St, Bondi Junction Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments Prestressing of pier headstocks Public utility adjustment M. W. S. & D. B. Prestressing of pier headstocks Public utility adjustments Prestressing of pier headstocks Public utility adjustments Prestressing of pier headstocks Public utility adjustment Prestressing of pier headstocks Public utility adjustments Prestressing of pier headstocks Public utility adjustments Prestressing of pier headstocks Public utility adjustmen						•
Darling Harbour Goods Yard Public utility adjustment. Sydney County Council Pasthurst St area (B) Bathurst Bathurst My S ABDB Bathurst Batalatoks Bathurst Batalatoks Bathurst Batalatoks Bathurst Batalatoks Bathurst Badstacks Bathur				Postmaster General's Department	11	61,40°
F3 Darling Harbour Goods Yard Sydney County Council F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 North Western Freeway — Foundations, substructures, viaducts and associated works F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustments M.W. S. & D.B F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustments M.W. S. & D.B F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustments M.W. S. & D.B F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Darling Harbour Goods Yard Public utility adjustments M.W. S. & D.B Postate Stape 3 Darling Harbour Goods Yard Foundations and substructures, viaducts and associated works F3 Darling Harbour Goods Yard Superstructures for viaduct — Stage 1 C Foundations and substructures tor viaduct — Stage 1 C Foundations and substructures for viaduct — Stage 1 C Foundations and substructures for viaduct — Stage 1 C Foundations and substructures for viaduct — Stage 5 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 5 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 5 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 5 Darling Harbour Goods Yard Foundations, substructures for viaduct — Stage 5 Darling Harbour Goods Yard Foundations, substructures, viaducts and associated works F6 Waterfall Tollwork Darling Market Dalling Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F7 Darling Preeway Divided two lane carriageway F7 Darli Freeway Divided two lane carriageway F7 Department Adelaide St, Bondi Junction Videout Free Parling Works Office F7 Department Preeway Divided two lane Carriageway F7 Department Preeway Parling Market Office F7 Darling Harbour Goods Yard F7 Darling Harbour Goods Yard F7 Darling Harbour Goods Yard F7 Darling Ha	,,	F3	Darling Harbour Goods Yard			
Sydney County Council F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 North Western Freeway — Bathurst St area (B) Associated works F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustments M.W. S. &D.B. F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustment Public Transport Commission F3 North Western Freeway — King St area (K) Foundations, substructures, viaducts and associated works F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 3 Superstructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 5 Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 1C Found				•	17	15,310
F3 North Western Freeway — Foundations, substructures, viaducts and associated works F3 Darling Harbour Goods Yard Prestressing of pier headstocks F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustments M.W. S, &D. B. F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustments M.W. S, &D. B. F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustments M.W. S, &D. B. F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustments M.W. S, &D. B. F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustment Public Transport Commission F3 Darling Harbour Goods Yard Foundations, substructures viaducts and associated works F3 Darling Harbour Goods Yard Foundations and substructures for viaducts—Stage 3 F3 Darling Harbour Goods Yard Foundations and substructures for viaduct—Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct—Stage 2 F3 Darling Harbour Goods Yard Foundations and substructures for viaduct—Stage 2 F3 Darling Harbour Goods Yard Foundations and substructures for viaduct—Stage 5 F3 Darling Harbour Goods Yard Foundations and substructures for viaduct—Stage 5 F3 Druitt St, Sydney to Bridge Rd, Glebe F3 North Western Freeway—Fyrmont St area (P) F4 Waterfall Tollwork Freeway F5 Waterfall Tollwork Administrative building F6 Waterfall Tollwork Administrative building F6 Waterfall Tollwork Administrative building F6 Waterfall to Bulli Pass, 43 km to 55 km south of Sydney F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney F7 Viaduct Tome Vernon St to Adelaide St, Bondi Junction Adela		F3	Darling Harbour Goods Yard	• •		447.00
Bathurst St area (B) Bathurst St Acrea (B) Bathurst Acrea (B) Bathurst Acrea (B) Bathurst St Acrea (B) Bathurst St Acrea (B) Bathurst Acrea (B) Bathurst Acrea (B) Bathurst Acr		F0	Onding Darkey Conda Yand	• •	•••	117,939
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F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustments M.W. S. & D.B. P73 Drailing Harbour Goods Yard Prestressing of pier headstocks P3 Druitt St, City to Bridge Rd, Glebe Public utility adjustment Public Transport Commission P3 North Western Freeway — King St area (K) Foundations, substructures, viaducts and associated works P3 Darling Harbour Goods Yard Foundations and substructures P3 Darling Harbour Goods Yard Superstructures for viaduct — Stage 1 C P4 Darling Harbour Goods Yard Foundations and substructures P5 Darling Harbour Goods Yard Foundations P6 Darling Harbour Goods Yard Foundations P6 Darling Harbour Goods Yard Foundations P6 Waterfall Tollwork Administrative building P7 Vernon St to Adelaide St, Bondi Junction Adproaches P6 Darl	11	гэ	•			425,27
F3 Darling Harbour Goods Yard Prestressing of pier headstocks Public utility adjustment Public Transport Commission F3 North Western Freeway — King St area (K) Foundations, substructures, viaducts and associated works F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Superstructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 2 F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 5 F3 Druitt St, Sydney to Bridge Rd, Glebe Public utility adjustment — Sydney City Council F3 North Western Freeway — Foundations, substructures, viaducts and associated works Southern Freeway Wollongong F6 Waterfall Tollwork Administrative building F6 Waterfall to Bulli Pass, 43 km to 55 km south of Sydney Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways Total Freeways (II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Adelaide St, Bondi Junction Adelaide St, Bondi Junction Approaches F5 Rondi Junction Mytick Office F5 Stablishment		F3	• •		•	127,71
F3 Druitt St, City to Bridge Rd, Glebe Public utility adjustment Public Transport Commission F3 North Western Freeway — King St area (K) Foundations, substructures, viaducts and associated works F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 3 F3 Darling Harbour Goods Yard Superstructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 2 F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 2 F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 5 F3 Druitt St, Sydney to Bridge Rd, Glebe Public utility adjustment — Sydney City Council F3 North Western Freeway — Foundations, substructures, viaducts and associated works 3 Southern Freeway Wollongong F6 Waterfall Tollwork Driver aid and toll registration systems Department Administrative building F6 Waterfall to Bulil Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F6 Waterfall to Bulil Pass, 55 km to 66 km south of Sydney Total Freeways Wollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct Department Adelaide St, Bondi Junction Approaches F5 Bondii Junction Myritor Office Establishment						54
Public Transport Commission Power States (K) Foundations, substructures ### Foundations and substructures ### foundations #				· ·		
and associated works F3 Darling Harbour Goods Yard Foundations and substructures for viaducts — Stage 3 F3 Darling Harbour Goods Yard Superstructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1C F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 2 F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 5 F3 Druitt St, Sydney to Bridge Rd, Glebe Public utility adjustment — Sydney City Council Foundations, substructures, viaducts and associated works F3 North Western Freeway — Foundations, substructures, viaducts and associated works 3 Southern Freeway Wollongong F6 Waterfall Tollwork Driver aid and toll registration systems Department Administrative building F6 Waterfall to Buili Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F6 Waterfall to Buili Pass, 55 km to 66 km south of Sydney Total Freeways Wollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct Department Department Adelaide St, Bondi Junction Approaches Establishment			· -	Public Transport Commission	**	42,53
F3 Darling Harbour Goods Yard Foundations and substructures for viaducts — Stage 3 Superstructures for viaduct — Stage 1C Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 5 Foundations and substructures for viaduct — Stage 1 Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 1 Foundations and substructures for viaduct — Stage	11	F3	North Western Freeway — King St area (K)	Foundations, substructures, viaducts		
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F3 Darling Harbour Goods Yard F3 Darling Harbour Goods Yard F3 Darling Harbour Goods Yard F5 Darling Harbour G5 Darling Harbour G5 Darling Harbour G5 Darling H5 Darling	,,	F3	Darling Harbour Goods Yard			
F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 1 C Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 5 Foundations and substructures for viad		F 2	Derline Harbour Conds Yord		•	571,57: 71,85:
for viaduct — Stage 1C Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 5 Foundations and substructures for viaduct — Stage 1C Foundations and substructures for viaduct — Stage 5 Foundations for viaduct — Stage 5 Foundations Foundatio			•	,	• "	£ 1,03.
F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 2 F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 5 F3 Druitt St;Sydney to Bridge Rd, Glebe Public utility adjustment — Sydney City Council F3 North Western Freeway — Foundations, substructures, viaducts and associated works Southern Freeway Wollongong F6 Waterfall Tollwork Driver aid and toll registration systems Department Administrative building F6 Waterfall to Bulli Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways (II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Festablishment	**	7.5	Daning harbour Goods Fard			393,07
F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 2 Foundations and substructures for viaduct — Stage 5 Foundation —		F3	Darling Harbour Goods Yard	-	••	,
F3 Darling Harbour Goods Yard Foundations and substructures for viaduct — Stage 5 F3 Druitt St, Sydney to Bridge Rd, Glebe Public utility adjustment — Sydney City Council F3 North Western Freeway — Foundations, substructures, viaducts and associated works Southern Freeway Wollongong F6 Waterfall Tollwork Driver aid and toll registration systems Department Administrative building F6 Waterfall to Bulli Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways 3 (II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct Department Approaches F5 Approache	,,		46	for viaduct - Stage 2	10	46,11
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Foundations, substructures, viaducts and associated works Southern Freeway Wollongong F6 Waterfall Tollwork Driver aid and toll registration systems Department Administrative building F6 Waterfall to Bulli Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways 3 (ii) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Approaches 172 Vaduct from Vernon St to Adelaide St, Bondi Junction Approaches 173 Spondi Junction Works Office Fstablishment	11	F3	Druitt St. Sydney to Bridge Rd, Glebe			
Pyrmont St area (P) and associated works Southern Freeway Wollongong F6 Waterfall Tollwork Driver aid and toll registration systems Department Administrative building F6 Waterfall to Bulli Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways 3 (II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction 172 Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches 172 Pagedic Injection Works Office Establishment					11	148,68
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Southern Freeway Wollongong F6 Waterfall Tollwork Driver aid and toll registration systems Department F6 Waterfall Tollwork Administrative building Waterfall to Bulli Pass, 43 km to 55 km south of Sydney Divided two lane carriageway Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways (ii) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches Stabilishment			PyrmontStarea (P)	and associated works	11	171,09
Wollongong F6 Waterfall Tollwork Driver aid and toll registration systems Department Administrative building F6 Waterfall to Bulli Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways 3 (II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction 172 Viaduct from Vernon St to Adelaide St, Bondi Junction 172 Viaduct from Vernon St to Adelaide St, Bondi Junction 173 Approaches 173 Bondi Junction Works Office Establishment	•					3,398,49
Wollongong F6 Waterfall Tollwork Driver aid and toll registration systems Department Administrative building F6 Waterfall to Bulli Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways 3 (II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction 172 Viaduct from Vernon St to Adelaide St, Bondi Junction 172 Viaduct from Vernon St to Adelaide St, Bondi Junction 173 Approaches 173 Bondi Junction Works Office Establishment						
F6 Waterfall Tollwork Administrative building F6 Waterfall to Bulli Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways 3 (II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction 172 Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches 172 Rondi Junction Works Office Establishment	_	•	141-4-4-11-W-11-	Photographic and an experience of the control of th	Description	A= A-
,, F6 Waterfall to Bulli Pass, 43 km to 55 km south of Sydney Divided two lane carriageway F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways 3 (ii) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct Department 172 Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches 172 Bondi Junction Works Office Establishment	Wollongong				•	87,92
55 km south of Sydney Divided two lane carriageway F6 Waterfall to Bulli Pass, 55 km to 66 km south of Sydney Total Freeways 3 (ii) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction 172 Viaduct from Vernon St to Adelaide St, Bondi Junction 172 Adelaide St, Bondi Junction 173 Approaches 173 Bondi Junction Works Office Establishment	**			Administrative building	••	5
Total Freeways 3 (II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct Department 172 Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches 173 Rondi Junction Works Office Establishment	11	ro		Divided two lane carriageway		5,92
(II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct Department 172 Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches 173 Bondi Junction Works Office Establishment		F6		Divided (wo lane carriage way	11	0,02
(ii) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct Department 172 Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches 172 Bondi Junction Works Office Establishment	,,				,,	17,94
(II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct Department 172 Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches 172 Bondi Junction Works Office Establishment			· · · · · · · · · · · · · · · · · · ·			100,00
(II) ORDINARY MAIN ROADS Woollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct Department 172 Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches 172 Bondi Junction Works Office Establishment				To	tal Eraawaya	3,852,72
Woollahra 172 Vernon St to Adelaide St, Bondi Junction Viaduct Department 172 Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches 172 Bondi Junction Works Office Establishment				10	ways	J,UJZ, 1 Z
172 Viaduct from Vernon St to Adelaide St, Bondi Junction Approaches 172 * Bondi Junction Works Office Establishment	• •			Mindunt	Dono	440 40
Adelaide St, Bondi Junction Approaches				VIAGUCT	Department	416,18
172 * Bondi Junction Works Office Establishment	11	1/2		Angroaches		278,48
		172	* Bondi Junction Works Office	Establishment		106,83
Total Ordinary Main Roads	,,				Main Boards	801,51

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(III) ROADS OTHE	RTHANM	IAIN ROADS			. \$
Sydney		Darling Harbour Goods Yard at			
-,,		William Henry St, Ultimo	Railway overbridge	**	770
			Total Roads	other than Main Roads	770
SUMMARY				Works Expenditure	Property Acquisitions
				Experiorure 2	Acquisitions \$
Freeways				3,852,720	_
Ordinary Main Ro	ads .			801,510	_
Roads other than	Main Roa	ds		770	_
Total as shown in	receipts a	and payments statements — Appendix I	No. 1(B)(ii)	4,655,000	

APPENDIX No. 8 COUNTRY MAIN ROADS FUND — GENERAL PURPOSES

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
I) FREEWAYS					\$
South Western Fre	nwav.				
Mittagong	F5	102.27 km to 110.45 km south of Sydney	Divided two lane carriageway	Department	83
viittagong		· · · · · · · · · · · · · · · · · · ·			83
Southern Freeway					
Wollongong	F6	Gilmore St. West Wollongong	Installation of drainage pipe	Department	1,636
1)	F6	Gladstone Ave to Five Islands Rd, Figtree	Dual carriageway	11	1,727
11	F6	Over F6 at Kanahooka Rd, Dapto	Prestressed concrete bridge	13	29,981
1)	F6	Over freeway on SH1 at Ghost Creek	Prestressed concrete girder bridge —		
			pitching at abutments	15	33
**	F6	Hernes Estate access at Figtree	Twin prestressed concrete bridges	11	11,879
"	F6	Australian Iron and Steel Siding			
		and access road	Prestressed concrete bridge	••	52
.,	F6	Bridge at Harvey St, Dapto	Design by consultants	*1	1,014
					46,322
			To	tal Freeways	46,405
				-	
(ii) STATE HIGHW Princes Highway	AYS				
Bega	1	Bega River at North Bega	Demolition and removal of		
			old timber bridge	Department	10,311
	1	Bridge over Bega River, Bega, 11.7 km	Northern and southern approaches		
		to 15.1 km south of Allsops Creek	(Stage 1 of Bega By-pass)	11	22,648
Eurobodalla	1	Mogo Shopping Centre	Reconstruction and		
		<u> </u>	bituminous surfacing	11	29,177
11	1	Vulcan St, Moruya	11	Council	39,726
Imlay	1	Wolumia By-pass, 17.5 km to 19.6 km	Reconstruction and		
		south of Bega	bituminous surfacing	Department	33,996
19	. 1	13.2 km to 17.5 km south of Bega	11	***	18
Mumbulla	1	3.7 km to 5.0 km north of Bega			
		(north of Coopers Gully)	Slow vehicle lane	*1	1,691
н	1	Dignams Creek, 97.4 km to 99.2 km			
		south of Batemans Bay	Climbing lane	н	74,893
Shoalhaven	1	Meroo Meadow, 152.1 km to		_	
		155.3 km south of Sydney	Improvement to alignment and gradin	g ,,	206.084
11	1	37.3 km to 45.4 km south of Nowra	Provision of climbing lanes	· ·	206,984
"	1 .	Abernathys Creek, 156 km to	Important to alignment		15
		156.9 km south of Sydney	Improvement to alignment	**	2,230
**	1	Jaspers Creek, 11.70 km north of Nowra	Prestressed concrete bridge Channel excavation	1.	750
"	1	Jaspers Creek, 11.65 km north of Nowra Tullian Creek, 6.0 km north of Nowra	Reinforced concrete box culvert	**	889
 Wollongong	1	Fairy Creek, 81.27 km south of Sydney	Prestressed concrete bridge		8
Wollongong	i	Bridge over Macquarie Rivulet,	Approaches including intersection	"	•
Shellharbour	•	Albion Park	with SH25		2
Wollongong	1 &	Junction, SH1 and F8 at			
violitigorig	F8	North Wollongong	Public utility adjustments	***	87,034
	1	MR513 at Bulli to Lake Illawarra	Heavy patching, pavement restoratio		
**		at Windang - full length	and drainage correction	**	62,495
	1	Northcliffe Dr. 8.95 km	-		
		south of Wollangong	Reconstruction of intersection	11	13,348
,,	1	Station St to Fairy Creek Bridge			
		at North Wollongong	Duplication of carriageway	***	7,907
**	1	Flagstaff Rd, 7.7 km to Orange Grove Rd,			
		8.3 km south of Wollongong	Kerbside lanes	Council	10,000
11	1	Orange Grove Rd to Northcliffe Dr,	Reconstruction and widening		
		Kembla Grange	to four lanes	Department	3,333
**	1	6.9 km to 7.7 km south of Wollongong	Kerbside lanes	Council	5,665
	1	American Creek Bridge	Approaches	**	89,221
**	1	Rothery Rd to Bellambi L, Bellambi	Asphaltic concreting on sidestrips		
			and central lanes	*1	16,424
					702,952

Credit

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
ii) STATE HIGHW/ lume Highway	AYS — co	ntinued			s
Gunning	2	Quarry entrance, 42.6 km	Acceleration and		
_		south of Goulburn	deceleration lanes	Department	4801
Vollondilly	2	74 km to 76 km south of Sydney	Reconstruction and	•	
-			bituminous surfacing	**	91
	2	76.4 km to 78.4 km south of Sydney	***	**	18
					3711
Snowy Mountains	u i a bweu				
Cooma	4	Cooma Back Creek in Sharp St, Cooma	2 span prestressed concrete bridge	Department	1,349
Monaro	4	56 km to 64 km west of Bega	Pavement strengthening	•	24,005
Snowy River	4	14.6 km east 22.9 km west of Klandra	Asphaltic concrete surfacing	1)	314
	4	13.49 km to 21 km west of Klandra	Reconstruction and	*1	• • •
**	~	13.49 Kill (0.21 Kill West Of Ribildia	bituminous surfacing		473
Tumut	4	Blowering Dam Deviation,	Remedial culvert and	**	7,0
i uniul	-	9.0 km east of Tumut	drainage works		123,812
	4	Capper St to Winyard St, Tumut	Deviation	*1	106
11	4	•		**	,,,,
**	4	52.94 km to 63.39 km east of Tumut	Reconstruction and		32,695
		40.01 m to 50.05 m a ant of Turnut	bituminous surfacing	**	6,462
••	4	43.6 km to 52.9 km east of Tumut	11	11	0,402
**	4	Nacka Nacka Creek, 28.6 km	.		A 065
		west of Tumut	Prestressed concrete bridge	11	2,965
					190,607
Great Western Hig	hway				
Blaxland	5	River Lett at Hartley, 129.6 km			
Diaxiano		west of Sydney	Prestressed concrete bridge	Department	1,375
	5	Marrangaroo Creek, 5.8 km	Frestrassed Concrete bridge	Department	1,575
**	3	-	Drostropped apparets plank bridge		292,552
	5	west of Lithgow 30.7 km to 34.6 km west of Katoomba	Prestressed concrete plank bridge	"	
**			Widening of formation	11	10,404
*1	5	Intersection with TR55	Reconstruction as partial		
		haidana ayaa Maaaanaa Gaaali 2.01aa	grade separated section	**	70
**	5	Bridges over Marragaroo Creek, 2.0 km	Danier by a constant		40.030
.	_	and 5.84 km west of Lithgow	Design by consultants	11	13,972
Blaxland	5	8.0 km to 40.0 km west	Provision of asphaltic	5	
	_	of Lithgow	concrete slick sections	Department	276
**	5	Meadow Flat, 28.5 km to 32.2 km	Reconstruction and		4 004
	_	west of Lithgow	bituminous surfacing	1+	1,230
**	5	Bridge over Lett River at Hartley,			
	_	129.6 km west of Sydney	Approaches	11	274,942
**	5 -	MR516, 0 km to Marrangaroo Creek,	_		
		5.84 km west of Lithgow	Dual carriageway	11	355,557
Blue Mountains	5	19.0 km to 36.0 km west of Katoomba	Heavy patchings	**	115,212
Turon	5	Williamsons Springs, Bathurst, 38.6 km	Reconstruction strengthening		
		to 62.5 km west of Lithgow	and drainage correction	*1	41,221
**	5	32 km to 34.8 km west of Lithgow	Reconstruction and		
		·	bituminous surfacing	11	165,87
					1,272,687
••••					
Mid Western High	-	F1 1 100 T11			
Bland	. 6	Floodway at 23.74 km west			
	_	of West Wyalong	Reinforced concrete bridge	Department	3,60
**	6	Culvert over floodway, 18.83 km west			
		of West Wyalong	Approaches	**	11,690
**	6	Floodway (Tea Tree Creek), 6.6 km			
		west of West Wyalong	Approaches	**	6,32
***	6	5.5 km west of West Wyalong	Reinforced concrete box		
			culvert and approaches	**	90
Waugoola	6	(1) 13.2 km to 14.64 km,	1. sealing,		
		(2) 14.64 km to 15.25 km; east of Cowra	2. widening of formation	Council	29,12
••	6	13.9 km to 14.5 km	Widening formation and		•
		east of Cowra	pavement strengthening		1,91
144	6	48.3 km to 50.0 km west of Grenfell	Widening and strengthening	"	29,17
Weddin				**	,
weddin	6	44.8 km to 67.2 km west of Grenfell	Formation widening	**	3,18

^{*}Credit

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/77
II) STATE HIGHWA	NYS — co	ontinued			S
litchell Highway					
bercrombie	7	7.6 km to 12.4 km west of Bathurst	Widening	Department	117
**	7	13.5 km to 16.7 km west of Bathurst	_ "		242
ourke	7	6 km to 24 km north of Bourke	Reconstruction and widening	**	222,216
**	7	Levee Bank crossings, 2.2 km north			
		and 2 km south of Bourke	Improvement	*1	90,190
11	7	Bridge over Darling River at Bourke	Foundation test boring		2,30
u	7	28.18 km to 30.58 km from Bourke	Reconstruction	••	12,739
**	7	182.9 km to 185.1 km north of Nyngan	Reconstruction and widening	**	377,789
anobolas	7	47.7 km to 50.6 km west of Bathurst	Widening and pavement strengthening	• •	76,46
11	7	4.06 km to 4.86 km west of Orange		**	6;
ubbo	7	Bridge over Macquarie River at Dubbo	Post constructional adjustments	11	204
lolong	7	Molong Creek, 6.8 km east of Molong	Steel girder and reinforced		
			concrete bridge	11	135,102
**	7	Bridge over Molong Creek, Erambie	Approaches	11	6,314
**	7	6.3 km to 10.9 km north of Molong	Reconstruction and		
			bituminous surfacing	**	96
11	7	Three Rivers Bridge, 20.3 km to			
		22.4 km north of Molong	Approaches	11	177
**	7	13.5 km to 20.27 km north of Molong	Reconstruction and		
			bituminous surfacing	***	59,174
)range	7	Woodward St to Clinton St, Orange	Reconstruction of pavement	Council	14,162
11	7	TR61 and MR573 at Orange	Reconstruction of intersection	**	39,287
	7	Summer St, Orange	Drainage improvement	11	93:
albragar	7	Bridge over Sandy Creek,	_		
•		6.75 km west of Dubbo	Foundation test boring	Department	735
imbrebongie	7	Bridge over Goan Waterhole, 0.14 km	_	•	
		north of East Trangie Level Crossing			1,14
	7	Two level crossings at Trangle,	Installation of Type "F"		•
,,	•	72.3 km and 75.8 km west of Dubbo	flashing lights	,,	67,91
Varren	7	59.9 km to 75 km south of Nyngan	Reconstruction and widening	**	397,316
Vellington	7	58 km to 63.17 km north of Molong	Reconstruction and	**	00.,01
Tellington	•	30 km to 00.17 km north or moloring	bituminous surfacing		855,828
	7	49.9 km to 55.5 km north of Molong	Strengthening and pavement widening		11,59
*1	7	38.6 km to 46.2 km north of Molong	Strengthening and widening pavement	**	5,14
11		Reinforced concrete box culvert	Strengthening and widening pavement	11	3,14
**	7				
		over unnamed creek,	Widening		18
	_	5.1 km north of Wellington		U	4
11	7	Geurie Creek, 21.3 km west of Wellington	Hamilor cad concrete box curvert	••	
					2,196,01
Barrier Highway					
3roken Hill	8	2.2 km to 2.8 km east of Broken Hill	Reconstruction and widening	Department	67,96
Central Darling	8	42 km to 48.3 km west of Wilcannia	Reconstruction including approaches		
			to Grassmere Creek Overflow Bridge	21	15,35
Aurray Darling	8	77.73 km to 78.86 km east of Broken			
Division		Hill at Little Topar	Raising and strengthening	.,	1,12
	8	6.4 km to 12.0 km west of Broken Hill	Reconstruction and widening	**	16,72
,,	8	50.0 km to 70.0 km east of Broken Hill	Restoration of damaged pavement	**	77
,,	8	3.0 km to 10.0 km east of Broken Hill	Reconstruction and		
			bituminous surfacing	11	499,82
••	8	Selected lengths, 12.0 km to 49.3 km			
		west of Broken Hill	Reconstruction of shoulders	••	85,64
,,	8	39.06 km to 46.82 km east of Broken Hill	Reconstruction and		
			bituminous surfacing		15,63
			•		641,07
					U-, I ,U/
New England High	_				
Glen Innes	9	2.4 km to 6.0 km north of Glen Innes	Reconstruction and		
			bituminous surfacing	Department	15
Maitland	9	Bridge over Four Mile Creek, 7.73 km			
		south of Maitland	Abutment piles	**	4
Tenterfield	9	3.2 km to 15.3 km south of Tenterfield	Reconstruction, widening and		
			climbing lanes	11	12,08
					11,97
					, -, -

ity, Municipal r Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amour 1976/7
I) STATE HIGHWA	YS — co	ntinued			\$
acific Highway	10	0.46 km aquith to 0.14 km aquith -4			
amna	10	0.46 km south to 0.14 km north of Ballina (Grant St to Tamar St)	Asphaltic concrete surfacing	Council	11,56
	10	0.2 km to 0.8 km south of Ballina	Reconstruction and	Council	11,30
	-		bituminous surfacing		8,11
yron	10	Railway overbridge bangalow, 26.1 km	<u>-</u>	Danasta ant	=
	10	to 26.7 km south of Tweed Heads	Approaches	Department	275,47
**	10	Skinners Creek, 23 km north of Ballina	Reinforced concrete box culvert		251,75
	10	23.2 km to 24.4 km north of Bangalow	and approaches Reforming and strengthening	11	231,73
••	10	23.2 Kill (0 24.4 Kill Holtif of Ballgalow	of formation		3,55
	10	Bridge over Brunswick River, 21.0 km	O TOTAL CALL	*1	0,00
11		north of Bangalow	Approaches	1)	4,65
4.1	10	Middle arm at Brunswick Heads,		,,	
		21 km north of Bangalow	Approaches	11	20
*1	10	Bangalow, 36.85 km north of Ballina	Railway overbridge	Council	103,78
	10	Bangalow, 36.85 km north of Ballina	"	Department	168,50
11	10	Railway overbridge at Tyagarah,		•	
		10.7 km north of Bangalow	Foundation test boring	*11	13,25
offs Harbour	10 &	•	· ·		·
	540	6.55 km south of Coffs Harbour	Improvement of intersection	17	4,09
**	10	20.0 km to 21.0 km and 48.5 km to	Strengthening and		•
**		49.5 km south of Grafton	bituminous surfacing	17	40,74
,,	10	19 km to 24.17 km north of Coffs Harbour	Reconstruction and	.,	•
	-		bituminous surfacing	**	496,60
	10	Bridge over Coffs Harbour Creek		,,	,-
**	. •	at Coffs Harbour	Design by consultants		5,6
,,,	10	McAuleys Headland, 2.70 km to 3 km		,	-,-
,,		north of Coffs Harbour	Heavy patching	.,	
offs Harbour	10	90.0 km to 101.57 km	Strengthening and bituminous	,,	
Bellingen	• •	north of Kempsey	surfacing widening on sections		60,5
offs Harbour	10	Diamond Head Rd, 21.4 km north of	ornaonig meemig om oeen min	11	,-
0.10 7.12.000.		Coffs Harbour	Prestressed concrete bridge		152,5
	10	0.3 km to 1.2 km north of	Reconstruction and	••	,.
**		Coffs Harbour	bituminous surfacing	Council	1.0
ostord	10	Slip near Jolls Bridge, 52.9 km	Exploratory boring and	000	.,.
		north of Sydney	geomechanical investigation	Department	15,0
Grafton City	10	Alipou Creek, 0.3 km north of Grafton	Reinforced concrete box culvert	0	7,6
	10	1.1 km to 2.1 km south of Grafton	Heavy patching	11	6,0
.,	10	Reinforced concrete box culvert over	, , , , , , , , , , , , , , , , , , ,	••	-,-
••		Alipou Creek, 0.3 km north of Grafton	Approaches	11	11,6
ireat Lakes	10	Bridge over Traynors Creek, 3.4 km	, ipp. 040//05	1,	,-
		north of Bulahdelah			399.6
	10	Traynors Creek, 3.4 km	**		000,0
**		north of Bulahdelah	Prestressed concrete bridge		2,0
lastings	10	Wilson River at Telegraph Point	r restressed controls on age	**	4,5
•	10	Walkers Creek, 53.4 km north of Taree	Reinforced concrete box culvert	**	85,9
*1	10	Bridge over Herons Creek, 55.7 km	ttomoroug comorotto box contont	11	
**		north of Taree	Widening		54,7
•	10	Wilson River at Telegraph Point, 94.8	vii coming	**	04,1
••		to 96.5 km north of Taree	Northern approach to bridge		
	10	Wilson River at Telegraph Point, 89.8	Southern deviation and	**	
"		to 92.9 km north of Taree	bridge approaches		5,9
	10	Herons Creek, 55.4 km to	onego approuence	***	-,.
***		55.5 km north of Taree	Widening of approaches		41,4
	10	Walkers Creek, 53.2 km to	Widoling of approaches	**	¥.,-
**		53.68 km north of Taree	Approaches		98,
	10	Various sections in Shire	Heavy patching	**	393,5
 (empsey	10	4.0 km to 5.5 km north of Kempsey	Reconstruction of distressed pavemen	t	75,2
	10	Various sections in Shire	Heavy patching		3,9
	10	1.19 km to 1.61 km north of Kempsey	Improvement to level crossing	**	5,t 6,t
**	10	Nambucca Heads, 63.7 km to	mprovement to lead crossing	• •	0,0
**	10	68.93 km north of Kempsey	Deviation		5,4
.ake Macquarie	10	156.87 to 172.45 km north of Sydney	Reconstruction of intersection	Department	3, 4
•	10	Robert St to Ada St, South Belmont	Dual carriageway including	Doparanent	'
••			approaches to Cold Tea Creek		
	10	Mark St to Red Rose Ave, Belmont	Restoration of damaged pavement	**	6,8
11		c rivov i ivo, comitoni		**	σ,

ity, Municipal r Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amou 1976/7
i) STATE HIGHW acific Highway –	AYS — co	intinued d	·		\$
laclean	10	Tynedale, 31.4 km to 33.0 km	Restoration of river banks and		
		north of Grafton	protection of roadside shoulders	Department	10,80
h	10	Bridge over Tabbimobile Creek,			
		31.1 km south of Woodburn	Foundation test boring	••	1,54
11	10	31.1 km to 37.8 km south of Woodburn	Reconstruction and		
			bituminous surfacing	Council	66
lanning	10	Various sections in Shire	Heavy patching	Department	116,38
	10	13.68 km to 16.09 km north of Taree	Reconstruction of damaged pavement		27,72
u	10	Two Mile Creek, 23.0 km to 24.8 km			
		north of Taree	Deviation	71	651.96
**	10	4.36 km to 16.32 km south of Taree	Slow vehicle lanes		3,67
	10	79.5 km to 79.7 km north of Taree	Reconstruction of distressed pavement	,,,	66,63
	10	24.8 km to 28.8 km south of Taree	Reconstruction of distressed pavement		•
11	10	Bridge over Herons Creek, 62.02 km			
"	10	north of Taree	Design by consultants		6,08
	10	2.4 km north of Taree	Widen Railway overbridge	Council	28,32
1)	10				20,33
	10	Two Mile Creek, 24.1 km north of Taree	Prestressed concrete bridge	Department	-
ambucca	10	16.45 km to 18:25 km north of Macksville	Reconstruction of distressed pavement	**	69,98
1)	10	13.0 km to 16.45 km north of Macksville	71	***	52,47
**	10	0 km to 3.5 km north of Macksville	Deviation	•••	7,8
**	10	32.93 km north of Kempsey			
		to Nambucca Heads	Heavy patching		28,1
41	10	Bridge over Boggy Creek, 16.8 km			
		north of Macksville	Design by consultants		6,69
**	10	Railway overbridge, 8.9 km	•		
"		south of Macksville	Foundation test boring		24
ewcastle	10	Intersection with City Rd, Merewether	,		10,4
Wedsite	10	City Rd, Merewether —	**	"	
**	10	•			3
	10	roadworks widening		11	
	10	12.4 km south of Newcastle at Charlestowr		11	2,6
ort Stephens	10	12.52 km (Balikera Canal) to 17.96 km	Reconstruction and bituminous		40.0
		north of Raymond Terrace	surfacing		13,8
aree	10	Browns Creek, Victoria St, Taree	Prestressed concrete bridge	Council	21,2
**	10	Browns Creek Bridge to Oxley St, Taree	Reconstruction and widening	19	88,5
intenbar	10	114.3 km to 117.0 km north of Grafton	Replacement timber culverts with		
			concrete box culverts	Department	82,0
	10	7.2 km to 9.0 km north of Ballina	Strengthening and		
			bituminous surfacing	**	19.9
weed	10	61.85 km to 62.54 km north of Ballina	Strengthening and		
	, -		bituminous surfacing		25.9
	10	Bridge over Condong Creek, 1.3 km	onaminoso con somig	••	
**	10	north of Murwillumbah	Approaches		4,1
	10	•	Approacties		7,1
••	10	16.6 km to 19.5 km	Destruction of an abbound court		444.7
		north of Murwillumbah	Restoration of southbound carriagewa	у	144,7
11	10	15.8 km to 19.6 km north of	Reconstruction and bituminous		
		Murwillumbah (Oak Ave)	surfacing northbound carriageway	**	131,1
11	10	Alma St Intersection, Murwillumbah	Channellisation of intersection	**	2,0
**	10	Condong Village, 4.1 km to 6.9 km			
		north of Murwillumbah	Deviation	11	12,6
11	10	Bridge over Condong Creek, 1.3 km			
		north of Murwillumbah	Widening and provision of footpath	*1	6
,,	10	Barneys Point Bridge over Tweed River,		•	
"		7.2 km south of Tweed Heads	Foundation test boring	,,	1,3
	10	Mooball to Kingscliff	, , , , , , , , , , , , , , , , , , ,		47,6
**	10	Bridge over Cudgen Creek,	••	**	٠,,,
. **	10	79.0 km north of Ballina	•		4
·	10		Poppostruction and	11	
lmarra	10	10.0 km to 30.0 km	Reconstruction and		
		south of Grafton	pavement strengthening	**	8,5
**	10	40.6 km to 43.6 km south of Grafton	Reconstruction and		
		(Cassons Creek to Dirty Creek)	bituminous surfacing	**	3
н	10	20.5 km to 64.3 km north of Grafton		11	5
**	10	Ferry between Ulmarra and South Gate,			
		13.0 km north of Grafton	Reconstruction of eastern approach	*1	9,6
	10	8 km to 10 km south of Grafton	Heavy patching	.,	9,0
 /oodburn	10 &	Pacific Highway and	· / · · •	• •	-1-
	145	Coraki Road, Woodburn	Improvement of intersection		5,4
	140	Columnitions, Froodbuill	provention interesention	**	
					4,235,5

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/7
II) STATE HIGHW	AYS — co	entinued		·	\$
Oxley Highway					
Coonabarabran	11	2.57 km to 16.0 km	Widening of shoulders		
		east of Coonabarabran	on selected lengths	Department	33,511
Gilgandra	11	13.0 km to 32.0 km east of Gilgandra	Widen culverts	•••	70
lastings	11	1.5 km to 10.9 km west of Port Macquarie	Reconstruction of distressed pavement	.,	22,629
Peel T	11	44.6 km west of Tamworth	Reinforced concrete box culvert	.,	169
Valcha	11	Various locations, Wauchope to Walcha	Restoration of landslides	•	49,62
	11	1.6 km to 3.2 km west of Walcha	Reconstruction and	••	_
H	• • •	T.O KIN TO O.E KIN WOOL OF THE OTHER	bituminous surfacing		1,20
	••	54.71 km to 59.72 km aget of Malalaha	onto introdes surfacing	**	57,27
	11	54.71 km to 58.73 km east of Walcha		**	
Varren	11	Bridge over Macquarie River at Warren	Foundation test boring	*1	2,30
. "	11	Bridge over Ewenmar Creek,			
		3.2 km east of Warren	**	**	2,30
		◆			54,54
awydir Highway					
Ashford	12	15.6 km to 18.4 km west of Yetman	Deviation	Council	14,16
3oomi	12	59.55 km to 64.4 km west of Moree	Reconstruction and		
			bituminous surfacing	Department	18,77
	12	Bridge over Black Gully,	.	•	
••	•=	98.8 km west of Moree	Approaches		24
Graffon Cibe	10		• •	Council	11
Grafton City	12	2.67 km west of Grafton	Improvement to intersection	Council	
<i>Macintyre</i>	12	1.93 km east of Delungra	Improvement of curve	11	2,41
Nymboida	12	21.2 km to 38.2 km west of Grafton	Reconstruction and		
			pavement strengthening	Department	83,56
Severn	12	Selected lengths, 78.0 km to 87.0 km	•		
-		east of Glen Innes	Replacement of guard fencing		18,66
	12	3.67 km to 6.44 km west of Glen Innes	Widening and strengthening	Council	11
,, (allarni	12	27.6 km to 41.4 km west of Warialda	• • •		128,87
/allaroi	12	27.6 km to 41.4 km west of wandlud	11	**	
Pår och kålenhooren.			· ·		266,95
Sturt Highway	4.4	0 long to 0.0 long contact 5 contact	December and continue of		
Balranald	14	0 km to 3.0 km east of Euston	Reconstruction and replacement	_	
			of irrigation culvert	Department	262,14
	14	9.2 km to 16.3 km east of Euston	Reconstruction and widening	**	15
**	14	8.9 km to 27.4 km west of Euston	Improving crests and widening	n	7
**	14	73.4 km to 79 km east of Euston	Widening and improvement		
			of two crests	**	12,63
Hay	14	0.2 km to 80.9 km west of Hay	Widening of pavement, shoulders and	**	•
· ··y		o.e kill to oo.o kill woot of riay	formation of selected lengths		59,2
	4.4	40.2 km to 24.4 km word of May	J	**	30,2
**	14	19.3 km to 31.4 km west of Hay	Reconstruction and		
		•	bituminous surfacing	11	23,2
**	14	19.3 km to 27.2 km west of Hay	Restoration of failed		
			sections of pavement	11	104,3
Kyeamba	14	Kyeamba Creek Bridge	Approaches	+1	1,1
Mitchell	14	51 km to 51.7 km north of Wagga Wagga	, ,		14,5
Murrumbidgee	14 &	Sturt Highway and Jerilderie Rd.	**	**	. 4,5
**************************************		· ·	Improvement to interest the		
Manna - 4 · ·	321	Darlington Point	Improvement to intersection	**	
Narrandera	14	Arajoel Causeway, 51.35 km			_
		west of Wagga Wagga	Supply and delivery of crown sections	**	35,3
Wagga Wagga	14	Edward St, Wagga Wagga	Railway subway	Council	456,3
"	14	5.0 km to 9.2 km west of Wagga Wagga	Bituminous surfacing including		
		- 33	channellisation with TR78	Department	4,6
	14	Edward St west to Ashmont Ave,		• ,====================================	
**	• •	Wagga Wagga	Deviation-	Councit	235,4
Makaal	1.4			Council	4,66.2
Wakool	14	43.0 km to 50.95 km east of Balranald	Reconstruction and	D · · · ·	
			bituminous surfacing	Department	_
*1	14	29.0 km to 43.0 km east of Balranald	**	11	. 9:
,,	14	16.22 km to 29 km east of Balranald	11	**	2,8
**	14	28.96 km to 33.80 km east of Bairanaid	Reconstruction and widening		
••			and bituminous surfacing		131,6
Wantworth	14	27.4 km to 32.0 km wast of Eviator	_	*1	
Wentworth		27.4 km to 32.0 km west of Euston	Improving crests and widening	**	19,5
13	14	41.8 km to 45.6 km west of Euston	Reconstruction and deviation	*1	506,B
••	14	32.5 km to 41.8 km west of Euston	Reconstruction and		
			bituminous surfacing	**	125,7
			-		
					1,710,4
Credit				•	

or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
II) STATE HIGHW	AYS — co	ntinued			\$
Bruxner Highway	40	Alice As The seat of Describilla	Connectivation and widening	Caupail	62 472
Boolooroo	16	0 km to 7 km east of Boggabilla	Reconstruction and widening	Council	63,472
Gundurimba	16	8.11 km to 8.36 km west of Lismore	Extension of climbing lane	11	32,573
*1	16	24.71 km to 25.15 km west of Ballina	Reconstruction and		48 744
_		40.55	bituminous surfacing	11	16,7111
Guyra	16	12.87 km to 16.4 km west of Lismore	And the state of t		47.500
Tenterfield		(Section 15.95 km to 16.25 km)	Strengthening of existing road	11	17,506
	16	37 km to 40.2 km east of Bonshaw	Reconstruction and		
			bituminous surfacing	Department	57
13	16	9.65 km to 14.26 km west of Tenterfield	Strengthening and widening		44400
			existing pavement	Council	14,162
11	16	44.90 km to 46.67 km east of Bonshaw	Reconstruction and	.	47.004
			bituminous surfacing	Department	17,834
**	16	62.8 km to 65.5 km west of Tenterfield	11	••	51,904
	16	Unnamed creek, 63.25 km			
		west of Tenterfield	Reinforced concrete box culvert	**	11
**	16	Yellow Gully, 69.92 km west of Tenterfield	One span prestressed concrete bridge		4,447
**	16	Black Creek, 83.27 km west of Tenterfield	Reinforced concrete box culvert	**	97
,,	16	Black Creek, Billabong, 27.42 km			
		east of Bonshaw	11	**	360
н	16	Bridge over Reedy Creek, 68.6 km			
		east of Tenterfield	Foundation test boring	**	7,528
	16	Bridge over Beardy River, 88.3 km			
**		west of Tenterfield	17		8,184
	16	Bridge over Mole River, 58.6 km			
11	, -	west of Tenterfield		**	6,711
Tomki	16	48.64 km to 51.86 km west of Ballina	Reconstruction and		
Offici			bituminous surfacing	Council	18,835
	16	57.2 km to 58.9 km west of Ballina			174
	16	12.7 km to 13.8 km west of Casino	Pavement strengthening	Department	25
**	,0	,,			226,491
Newell Highway					
Berrigan	17	SH20 at Finley	Improvement of intersection	Department	573
,,	17	Bridge over Mulwaia Canal,	·	·	
**		1.1 km north of Finley	Approaches		143
	17	2.4 km to 8.7 km north of Finley	Widening and bituminous surfacing	**	244,147
н	17	3.7 km to 13 km north of Finley	Widening of Water Resources	,,	
**	• • •	,	Commission structures	,,	7,455
					.,
	17	4.0 km to 46.0 km north of Moree	Reconstruction of existing		
Boolooroo	17	4.0 km to 46.0 km north of Moree	Reconstruction of existing		35.252
Boolooroo			failed pavement edges		35,252 6 267
Boolooroo	17	14.6 km to 15.4 km south of Moree	failed pavement edges Pavement Strengthening	"	6,267
Boolooroo ,, Dubbo	17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo	failed pavement edges Pavement Strengthening Foundation test boring		
Boolooroo	17	14.6 km to 15.4 km south of Moree	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and	 	6,267 667
Boolooroo ,, Dubbo	17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo	failed pavement edges Pavement Strengthening Foundation test boring	"	6,267
Boolooroo ,, Dubbo	17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing	 	6,267 667 2,896
Boolooroo ,, Dubbo Gilgandra	17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and	 	6,267 667 2,896
Boolooroo ,, Dubbo Gilgandra	17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off,	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches	0 0 0	6,267 667 2,896 2,896
Boolooroo ,, Dubbo Gilgandra	17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening	0 0 0	6,267 667
Boolooroo ,, Dubbo Gilgandra	17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off,	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and	0 0 0	6,267 667 2,896 2,896 2,327
Boolooroo ,, Dubbo Gilgandra ,, Goobang	17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing	0 0 0	6,267 667 2,896 2,896 2,327 11,235
Boolooroo Dubbo Gilgandra Goobang	17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation	0 0 0 0 0	6,267 667 2,896 2,896 2,327 11,235 8,316
Boolooroo ,, Dubbo Gilgandra ,, Goobang	17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing	"	6,267 667 2,896 2,896 2,327 11,235 8,316
Boolooroo Dubbo Gilgandra Goobang	17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment	0 0 0 0 0	6,267 667 2,896 2,896 2,327 11,235 8,316 115,973
Boolooroo Dubbo Gilgandra Goobang 	17 17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge to junction with MR377	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment Pavement widening	0 0 0 0 0	6,267 667 2,896 2,896 2,327 11,235 8,316 115,973 49,199
Boolooroo Dubbo Gilgandra Goobang	17 17 17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge to junction with MR377 13.7 km to 16.9 km north of Forbes	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment Pavement widening Widening Widening		6,267 667 2,896 2,896 2,327 11,235 8,316 115,973 49,199
Boolooroo Dubbo Gilgandra Goobang Jemalong	17 17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge to junction with MR377	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment Pavement widening	Council	6,267 667 2,896 2,896 2,327 11,235 8,316 115,973 49,199 3,303
Boolooroo Dubbo Gilgandra Goobang Jemalong	17 17 17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge to junction with MR377 13.7 km to 16.9 km north of Forbes	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment Pavement widening Widening Widening	Council	6,267 667 2,896 2,896 2,327 11,235 8,316 115,973 49,199 3,303
Boolooroo Dubbo Gilgandra Goobang Jemalong	17 17 17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge to junction with MR377 13.7 km to 16.9 km north of Forbes	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment Pavement widening Widening Reconstruction of shoulder edges		6,267 667 2,896 2,896
Boolooroo .,. Dubbo Gilgandra Goobang Jemalong Jerilderie	17 17 17 17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge to junction with MR377 13.7 km to 16.9 km north of Forbes 30.6 km to 39.35 km north of Jerilderie	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment Pavement widening Widening Reconstruction of shoulder edges including shoulder sealing		6,267 667 2,896 2,896 2,327 11,235 8,316 115,973 49,199 3,303 222,740
Boolooroo ,, Dubbo Gilgandra ,, Goobang ,, Jemalong ,, Jerilderie	17 17 17 17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge to junction with MR377 13.7 km to 16.9 km north of Forbes 30.6 km to 39.35 km north of Jerilderie	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment Pavement widening Widening Reconstruction of shoulder edges including shoulder sealing Reconstruction and	Council	6,267 667 2,896 2,896 2,327 11,235 8,316 115,973 49,199 3,303 222,740
Boolooroo Dubbo Gilgandra Goobang Jemalong Jerilderie	17 17 17 17 17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge to junction with MR377 13.7 km to 16.9 km north of Forbes 30.6 km to 39.35 km north of Jerilderie	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment Pavement widening Widening Reconstruction of shoulder edges including shoulder sealing Reconstruction and	Council	6,267 667 2,896 2,896 2,327 11,235 8,316 115,973 49,199 3,303
Boolooroo Dubbo Gilgandra Goobang Jemalong Jerilderie	17 17 17 17 17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge to junction with MR377 13.7 km to 16.9 km north of Forbes 30.6 km to 39.35 km north of Jerilderie 13.3 km to 34.2 km north of Finley Turn Back Jimmy Creek, 13.7 km to	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment Pavement widening Widening Reconstruction of shoulder edges including shoulder sealing Reconstruction and widening of formation	Council Department	6,267 667 2,896 2,896 2,327 11,235 8,316 115,973 49,199 3,303 222,740 33,510
Goolooroo Dubbo Gilgandra Goobang Jemalong Jerilderie	17 17 17 17 17 17 17 17 17 17 17	14.6 km to 15.4 km south of Moree Railway overbridge, Fitzroy St; Dubbo 64.36 km to 64.80 km north of Dubbo Railway level crossing at 2.4 km south of Gilgandra Junction with Parkes Telescope turn-off, 18.80 km north of Parkes 30.57 km to 33.79 km north of Parkes 16.09 km to 27.36 km north of Forbes 3.1 km to 6.53 km east of Forbes Southern approach to Fitzgeralds Bridge to junction with MR377 13.7 km to 16.9 km north of Forbes 30.6 km to 39.35 km north of Jerilderie 13.3 km to 34.2 km north of Finley Turn Back Jimmy Creek, 13.7 km to 14.7 km north of Jerilderie	failed pavement edges Pavement Strengthening Foundation test boring Reconstruction and bituminous surfacing Approaches Reconstruction and widening Reconstruction and bituminous surfacing Widening of formation Improvement to alignment Pavement widening Widening Reconstruction of shoulder edges including shoulder sealing Reconstruction and widening of formation	Council Department	6,267 667 2,896 2,896 2,327 11,235 8,316 115,973 49,199 3,303 222,740 33,510

APPENDIX No. 8 — continued COUNTRY MAIN ROADS FUND — GENERAL PURPOSES Summary of Payments from Department's Funds on Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/7
(II) STATE HIGHWAY					\$
Neweli Highway — co					
Narrabri	17	Bridge over Eathers Creek,			
		Cooma St, Narrabri	Foundation test boring	Department	2,31
11	17	Bridge over Namoi River at Narrabri	Approaches	11	5,52
Varrandera	17	Whitton St, 0.2 km to			
		0.4 km south of Narrandera	Improvement of intersection		56,60
	17	107.96 km to 108.56 km north of Jerilderie	Foundation test boring		12,65
Parkes	17	Clarinda St, Parkes	Reconstruction and		,
	••	Ciarrida St, Farros	bituminous surfacing		28,00
		Delica Casa Martines Ave. Desires	Dituminous surfacility	Causall	
D	17	Baker St to Hartigan Ave. Parkes	"	Council	22,65
	17	Hartigan Ave to Medlyn St. Parkes	0	Department	57,86
'albragar	17	58.9 km to 64.0 km north of Peak Hill	Widening formation prior to resealing		2
					1,137,08
Saallanaaah Wahiin					
C astlereagh Highwa Coonamble	y 18	Coonamble to Walgett	Restoration of isolated sections		
		-	of failed pavement	Department	87,05
			-		87,05
Monaro Highway Bibbenluke	19	26.7 km to 28.29 km south of Bombala	Reconstruction and gravel surfacing	Council	5,22
JIDOGINONE	19			Council	7,22
••	19	16.0 km to 21.7 km south of Bombala	Reconstruction and		4 80
			bituminous surfacing	*1	1,02
11	19	17.36 km to 20.47 km south of Bombaia	Reconstruction and gravel surfacing		2,50
••	19	36.11 km to 36.8 km south of Bombala	Reconstruction and		
			bituminous surfacing		3,22
Cooma	19	Curve at 106.1 km south of Canberra	Reconstruction to improved alignment	**	1,68
Monaro	19	3.14 km to 5.40 km and 5.86 km to			
		10.63 km south of Cooma	Pavement strengthening	Department	9
**	19	94.0 km to 95.0 km south of	and the state of t		_
••	••	Canberra (Driscolls Hill)	Extension of climbing lane	١,,	76,03
	19	Harry Willow Creek, 84.1 km	Extension of Children Inc.	**	. 0,50
19	15		0		
		south of Canberra	Precast concrete box culvert	**	87,62
Riverina Highway		04.71			
Conargo	20	31.7 km to 50.6 km west of Finley	Reconstruction of shoulder edges		
			including shoulder sealing	Department	134,21
Deniliquin	20	4.6 km to 8.14 km east of Deniliquin	Reconstruction and		
			bituminous surfacing	Council	139,38
					273,59
					273,34
Cobb Highway					
	21	At Ivanhoe	Raising of level crossing	Council	3,50
Central Darling		Bridge over Mulwele Conel, 2.4 km	·		
Central Darling	21	Bridge over Mulwala Canal, 2.4 km			
Central Darling	21	south of Deniliquin	Widening	Department	8
Central Darling Deniliquin	21 21		Widening Widening	Department 	
Central Darling Deniliquin	-	south of Deniliquin	•	•	
Central Darling Deniliquin Hay	21	south of Deniliquin Level crossing at Hay	Widening Reconstruction and		9,52
Central Darling Deniliquin Hay	21 21	south of Deniliquin Level crossing at Hay Belmore St to Murray St Hay	Widening	•	9,52
Central Darling Deniliquin Hay	21 21 21 &	south of Deniliquin Level crossing at Hay Belmore St to Murray St Hay Norma St and Palmer St	Widening Reconstruction and bituminous surfacing	Council	9,52 11,75
Central Darling Deniliquin Hay	21 21	south of Deniliquin Level crossing at Hay Belmore St to Murray St Hay	Widening Reconstruction and		9,52 11,75 1,39
Central Darling Deniliquin Hay 	21 21 21 &	south of Deniliquin Level crossing at Hay Belmore St to Murray St Hay Norma St and Palmer St	Widening Reconstruction and bituminous surfacing	Council	9,52 11,75 1,38
Central Darling Deniliquin Hay	21 21 21 & 14	south of Deniliquin Level crossing at Hay Belmore St to Murray St Hay Norma St and Palmer St South Hay	Widening Reconstruction and bituminous surfacing Channellisation of intersection	Council	9 9,52 11,75 1,39 26,27
Central Darling Deniliquin Hay	21 21 21 &	south of Deniliquin Level crossing at Hay Belmore St to Murray St Hay Norma St and Palmer St South Hay Tincha deviation 1.6 km to 17.7 km	Widening Reconstruction and bituminous surfacing Channellisation of intersection Reconstruction and	Council Department	9,52 11,75 1,35 26,27
Central Darling Deniliquin Hay 	21 21 21 & 14	south of Deniliquin Level crossing at Hay Belmore St to Murray St Hay Norma St and Palmer St South Hay Tincha deviation 1.6 km to 17.7 km north of Wentworth	Widening Reconstruction and bituminous surfacing Channellisation of intersection Reconstruction and bituminous surfacing	Council	9,52 11,75 1,35 26,27
Central Darling Deniliquin Hay	21 21 21 & 14	south of Deniliquin Level crossing at Hay Belmore St to Murray St Hay Norma St and Palmer St South Hay Tincha deviation 1.6 km to 17.7 km	Widening Reconstruction and bituminous surfacing Channellisation of intersection Reconstruction and	Council Department	9,52 11,75 1,39

^{*}Credit

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(II) STATE HIGHWA	YS — co	ntinued			\$
itate Highway No. 2					
ake Macquarie	23	Griffith St Charlestown	Improvement of intersection	Council	5,665
Newcastle	23	Hugo Ave to Moore St	Construction of possing lane		201
		(Junction with MR605)	Construction of passing lane	**	
					5,866
fount Lindesay Hig	hway				
(yogle	24	7.64 km to 14.77 km	Reconstruction and		
		north of Woodenbong	bituminous surfacing	Department	6,574 6,571
llawarra Highway					
Vingecarribee	25	39.6 km to 46.3 km west of SH1	Strengthening and		
Mittagong			widening of pavement	Department	2,324
Vingecarribee	25	Black Bobs Creek 11.1 km south		•	
		of Moss Vale	Prestressed concrete bridge	**	721
					3,045
State Highway No. 2	26				
osford	26	Calga interchange to	Additional lane	Department	1,450
		4.0 km north of Calga	•		1,450
			Total	il State Highways	13,193,382
(iii) TRUNK AND O					
Ashford	63	Bridge over Ottleys Creek 52.5 km	Approaches	Council	12,052
	63	north of Warialda Rocky Dam 22.1 km south of Yetman	Approaches Prestressed concrete bridge		3,424
11	137	Myall Creek 18.51 km north of Ashford	Prestressed Concrete bridge	**	32,573
11	137	29 km to 36.3 km north of Ashford	Reconstruction and	.,	,
•••			bituminous surfacing		28,433
•	137	19.15 to 19.47 km north of			
		Ashford Water Hole Creek	Approaches	+1	21,24
"	137	31.16 km to 33.00 km north of Ashford	Reconstruction and		25.00
Dallina	145	CH10 to Missingham Bridge via	bituminous surfacing	**	35,290
Ballina	143	SH10 to Missingham Bridge via River St Ballina			3,54°
	145	SH10 to Missingham Bridge via	Reconstruction including	••	3,04
••		River St. Ballina	bituminous surfacing	19	3,541
Bairanaid	67	156.72 km to 158.32 km north of Bairanald	Reconstruction and gravel surface	ing "	3,478
**	67	32.0 km to 34.6 km north of Bairanaid	Reconstruction and		
	67	39 km to 41 km north of Balranaid	bituminous surfacing		7,766 42,486
**	67 67	34.6 km to 37.5 km north of Balranaid		19	7,21
 Barraba	63	Bridge over Sheepstation Creek	**	**	· , ·
		18.5 km north of Barraba	Approaches	**	58,333
**	63	Sheepstation Creek 18.5 km			
		north of Barraba	Prestressed concrete bridge	**	15,393
•	132	15.3 km to 18.9 km east of Barraba	Reconstruction and bituminous surfacing		27,610
Bathurst	54	Railway overbridge at	Diturnious surfacing	•1	47,010
Damers	5 7	Rocket St Bathurst	Approaches	.,	14,162
	253	Body Creek on deviation at Kelso	Reinforced concrete box culvert	**	31,16
11	253	3.3 km east of Bathurst at Kelso	Eliminate level crossing at Kelso	**	31,160
Bellingen	76	26.5 km to 27.4 km west of Bellingen			A = = =
		including Sandy Creek at 24.2 km	Improvement to alignment		33,32
,, Danalana	76 262	26.49 km to 26.56 km west of Bellingen	Property estion and	**	1,90
Berrigan	363	8.0 km to 12.1 km north of MR550 at Baroogaa	Reconstruction and bituminous surfacing		49.56
	363	4.02 km to 8.05 km north of MR550	Reconstruction and	11	78,30
**					
••			bituminous surfacing		49.56

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/7
II) TRUNK AND O	RDINARY	MAIN ROADS — continued	Reconstruction and		\$
Bibbenluke	91	10.54 km to 13.53 km east of Bombala	bituminous surfacing	Council	1,75
11	91	16.7 km to 19.6 km east of Bombala	11	*1	18,170
••	91	23.41 km east of Bombala	Reinforced concrete box culvert	11	48,61
llaxland	55	7.25 km to 53.85 km north of Lithgow	Heavy patching	Department	23,65
**	581	Level crossing at Cullen Bullen	Installation of "F" type flashing		
			lights and warning bells	Council	2,03
Bogan	57	Bridge over Bogan River 46.9 km south			
•		of Nyngan at Buddabedah	Foundation test boring	Department	1,81
	70	Coolabah to Gongolgon 7.53 km to	Reconstruction and		
		8.16 km north of SH7	bituminous surfacing	Council	13,66
.,	70	12.00 km to 16.1 km from Coolabah	Bituminous surfacing	**	7,50
	70	Coolabah to Gongolgon (12.0 km to	•		·
••	. •	16.1 km north of SH7)	Reconstruction to basecourse level	**	35,40
	70	Coolabah to Gongolgon 4.53 km to	Reconstruction and	••	,
21	10	7.53 km north of SH7	bituminous surfacing		31,51
laniaeros	507	5.2 km to 10.2 km east of Boomi	•	. "	36,82
loolooroo			10	**	100.86
**	507	2.0 km to 5.2 km east of Boomi	11	**	100,00
11	507	48.28 km to 53.91 km			
		west of Goondiwindi		**	
łoomi	232	74.10 km to 75.25 km north of Moree	77	11	67,97
**	367	57.94 km to 59.7 km north west of Moree	,,	*1	13,24
Boorowa	56	Woolpack Creek 29.8 km			
		north of Boorowa	Six span reinforced concrete bridge	**	70
**	248	12.6 km to 15.1 km east of Boorowa	Reconstruction and		
			bituminous surfacing	н	45,3
Boree	237	Grove Creek 46.4 km	_		
		south-west of Orange	Reinforced concrete box culvert	**	27,1
Bourke	68	6.02 km to 7.52 km east of Bourke	Reconstruction and		•
700. KU		5.52 Kill (5 7.52 Kill 525) 57 57 57 57 57 57 57 57 57 57 57 57 57	bituminous surfacing		42,4
Brewarrina	70	40.4 km to 41.4 km north of Brewarrina	bitainitious sarraomig	11	93,6
orewarrina			Pavement strengthing	**	22,6
	70	3.15 km to 10.2 km north of Brewarrina		**	22,0
**	70	26.2 km to 34.3 km north of Brewarrina	Reconstruction and		107.8
_			bituminous surfacing		107,63
Broken Hill	66	3.9 km to 4.1 km east of Broken Hill		Department	34,77
Burrangong	78	39.4 km to 40.0 km north of Young	Pavement strengthening	Council	13,6
FF	78	38.52 km to 39.41 km north of Young	Pavement strengthening and widening	**	5
	78	30.71 km to 31.63 km and 38.03 km	Reconstruction and		
		to 38.52 km north of Young	bituminous surfacing	,,	14,8
	239	Burrangong Creek 19.31 km			
		north of Young	Construction of bridge	**	5
	241	Wambanumba Creek 8.8 km			
	-	east of Young	Reinforced concrete bridge	**	24,8
	241	9.55 km to 12.0 km east of Young	Reconstruction and	,,	•
••		0.00 (0 /2.0 220.0 / 0.0	bituminous surfacing		9,5
Canobolas	61	1.3 km to 2.55 km west of Orange	· ·	**	205,3
	61	2.55 km to 4.80 km from	"	11	200,0
11	01	Orange city boundary			21,2
3 4 b1	260	• •	Improvement of drainage	**	
Carrathool	368	0 km to 8.8 km west of Rankins Springs	Improvement of drainage	**	8,2
	368	2.2 km to 3.9 km west of Rankins Springs	Reconstruction and		
			bituminous surfacing	••	28,3
**	501	13.0 km to 18.0 km east of Hillston		11	42,4
***	501	4.26 km to 8.0 km east of TR80	**	**	11,5
D.	501	8.0 km to 13.3 km south of Hillston	••	11	16,8
Casino	149	Bridge over Oakey Creek 4.2 km			
		east of Casino	Foundation test boring	Department	8,8
Central Darling	68	0.4 km to 1.1 km south of Menindee	Approaches	Council	16,4
.,	405	Bridges over Paroo River and By-washes			
		1 and 2, 186 km to 190 km west of Bourke	"	11	29,3
	435	42.2 km to 70.7 km north of Wilcannia	Reconstruction and	••	
**			bituminous surfacing		6,3
Cobar	61	58 km to 64.9 km south of Cobar		**	57,4
	407 &	JO KIT TO 07.5 KITI SOUTH OF CODE!	"	**	٠,٠٠
**		Internaction with MD 424	improvement		7 4
	421	Intersection with MR421	Improvement	**	7,6
**	411	Euabolong West to Murrin Bridge	Reconstruction and		
		(0 km to 10 km West Euabolong)	bituminous surfacing	-13	38,9
	63	30.06 km to 30.70 km north of Tamworth		,,	6,7
Cockburn	63	28.9 km to 29.6 km north of Tamworth	,,	• •	15,4

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
	DINARY	MAIN ROADS — continued	Reconstruction and	=	
offs Harbour	151	57.63 km to 59.06 km south of Grafton	bituminous surfacing	Council	4,428
0	151	Coffs Creek 5.6 km west of Coffs Harbour	Reinforced concrete box culvert	,,	43,902
	151	Coffs Creek 5.6 km west of Coffs Harbour		**	43,902
**	151	Duckan Duckan Creek 17.8 km			
11		north of Coffs Harbour	.,		72,935
olo	181	Unnamed creek 22,7 km north	.,	•	•
		of St. Albans	Reinforced concrete bridge	*1	30,760
	181	Unnamed creek 2.57 km north	_		
		of St. Albans	Replacement of timber bridge	**	30,760
	503	Bridge over Roberts Creek			
••	000	17.7 km north of Windsor	Bored piles	Department	365
	503	MR182 to Colo Shire boundary	Boroa piloo	_ opa	
11	505	north of Windsor	Heavy patching of selected lengths		72
	500	18.3 km to 19.6 km north of Windsor	Reconstruction and widening	11	18,802
	503		_	**	10,002
on arg o	552	34.3 km to 37.2 km east of Deniliquin	Reconstruction and	Coursil	17 002
			bituminous surfacing	Council	17,993
ondobolin	57	Bridge over Lachlan River at Condobolin	Foundation test boring	Department	669
oolah	55	13.0 km to 14 km north of Coolah	Reconstruction and		
			bituminous surfacing	Council	25,877
n	55	14.0 to 18.0 km north of Coolah	17	**	10,338
	55	10.95 km to 13.0 km north of Coolah	1)	*1	12,640
,,	55	19.0 km to 25.7 km north of Coolah		11	52,824
	77	Bridge over Merrygoen Creek 0 km			
**	• •	to 0.64 km south of Mendooran	Approaches		28,324
	77	Merrygoen Creek at Wongoni Crossing	Prestressed concrete	111	20,02
11	"	31.4 km west of TR55	bridge and approaches		5,690
	000		• • • • • • • • • • • • • • • • • • • •	*1	3,050
oolamon	398	8.5 km to 11.30 km north of MR240	Reconstruction and		04 440
			bituminous surfacing		21,112
	398	11.5 km to 14.8 km north of MR240	11	**	28,157
••	398	29.24 km to 32.97 km north of Coolamon	••	**	24,825
Coonabarabran	55	33.2 km north of Coolah	Reinforced concrete box culvert	*1	3,932
**	129	24.94 km east of Coonabarabran	Reinforced concrete box		
			culvert and approaches	,,	2,813
**	129	52.24 km to 57.07 km west	Reconstruction and		
"		of Coonabarabran	bituminous surfacing	11	20,586
	334	13.6 km south of SH11	Prestressed concrete bridge	**	35.826
**	396	Merryula Creek 25.4 km	7 7001.00000 001101.010 011090	••	55,525
	290	north of Binnaway	Reinforced concrete box culvert		7,541
	200	· .	remorced concrete box curvert	11	7,541
**	396	Bridge over Merryula Creek	A		22 602
		29.4 km north of Binnaway	Approaches	11	33,883
	396	24.9 km to 25.3 km north of Binnaway	Reconstruction and		
			bituminous surfacing	**	15,595
coonamble	205	20.3 km to 26.7 km east of Coonamble	**	**	53,834
11	383	15.9 km to 20 km north of Coonamble	**	••	106,330
ootamundra	78	15.1 km to 18.8 km north of Cootamundra	Formation and widening	**	18,075
**	84	Connaughtmans Creek 18.6 km			
		west of Murrumburrah	Reinforced concrete bridge	**	6,084
	84	Bridge over Connaughtmans Creek	•		
**	Q 4	18.6 km west of Murrumburrah	Approaches		8,328
	0.4		Formation and widening and provision	,,,	0,020
	84	13.36 km to 18.31 km		'	10 671
		west of Murrumburrah	of climbing lane	**	10,671
Copmanhurst	83	Sheep Creek 34.20 km north of Grafton	Prestressed concrete bridge	5.1	5,299
,,	83	Bridge over Sheep Creek 34.20 km			
		north of Grafton	Approaches	10	15,560
	83	Rileys Creek 44.9 km north of Grafton	Prestressed concrete bridge		
			and approaches	**	11,224
	83	Bridge at Two Mile Creek 69.2 km			
		north of Grafton	Foundation test boring	Department	4,093
	150	15.3 km to 16.2 km north west of Grafton	Reconstruction and	•	
11	100	. J.O Mil CO TOLE MIN HOUSE OF GRANDIN	bituminous surfacing	Council	4,312
`0.000.5	96	0 km to 3 km south of SH20	Site Minous Surfacility		48,859
Corowa	86		Surface course aroundling	H	79,03
	331	8.7 km to 12.9 km east of MR131	Surface course gravelling		20.00
•			and bituminous surfacing	**	36,82
11			Description and		
"	398	19.0 km to 23.8 km south of Ariah Park	Reconstruction and		
	398	19.0 km to 23.8 km south of Ariah Park	bituminous surfacing	1.	
	398 310	19.0 km to 23.8 km south of Ariah Park 2.90 km to 3.95 km north Cowra		10 11	30,873 7,081 104

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
HI) TRUNK AND C	RDINAR	Y MAIN ROADS — continued			\$
Crookwell	54	Binda Vale Creek at Binda	Reinforced concrete box culvert	Council	17,456
11	201	56.15 km to 57.45 km and 58.3 km to	Reconstruction and		
		60.45 km north of Crookwell	bituminous surfacing	**	2,892
Cudgegong	214	44.7 km to 48.9 km north of Mudgee	Surface course gravelling		
			and bituminous surfacing	11	519
Culcairn	331	49.2 km to 58.6 km west of	Reconstruction and		
		Hotbrook Shire boundary	bituminous surfacing	.,	4,181
	547	Railway level crossing, Jindera Rd,			
		Walla Walla	Widening	11	5,948
Deniliquin	552	2.21 km to 2.96 km north of Deniliquin	Widening of formation and		
·		·	bituminous surfacing		21,243
	552	2.21 km to 2.96 km north of Deniliquin		••	21,243
Denman	209	Bridge over Wybong Creek (Lower	•		Ť
		Wybong Bridge) at Hollydeen	Foundation test boring	Department	13,78
Dubbo	206	Railway overbridge at River St, Dubbo		•	4,68
Eurobodalla	271	Moruya River at Kiora	Temporary footbridge	Council	55!
	271	Bridge over Moruya River at Kiora,	remporary tootoringe	Council	33.
**	211	3.94 km west of Moruya	Approaches		2.83
	271		Approaches	**	2,032
••	271	Moruya River at Kiora,			
	07-	3.94 km west of Moruya	Supply of steelwork by A.I.&S.	Department	32,36
**	271	Moruya River at Kiora.			
_		3.94 km west of Moruya	TI .	Council	23,48
Forbes	56	Bandon St to Berkley St, Forbes	Regrading	11	8,71
Gilgandra	77	31.0 km to 34.0 km east of Gilgandra	Reconstruction and	•	
			bituminous surfacing	**	16,58
,,	7 7	32.3 km to 34.0 km east of Gilgandra	11	.,	22,019
**	205	Tooraweenah Creek,	•		
		3.7 km north of SH11	Reinforced concrete bridge		6,489
Sloucester	90	1.0 km east of Gloucester	Installation of "F" type flashing		
			lights and warning bells		9,91
**	90	0.5 km to 0.9 km east of Gloucester	Reconstruction and	, ''	
.,			bituminous surfacing	1,,	4,24
	90	0.9 km to 1.4 km east of Gloucester	•		17,57
**	90	Gloucester South to SH10.	•1	11	17,57
11	30	various locations	Reconstruction of damaged pavement		11,33
	90	3.4 km to 5.5 km east of Gloucester	Reconstruction and	*1	11,33
**	90	3.4 km (0 3.3 km east of Gloucester			26 54
Cooboos	57	Bridge aver Bullack Creek	bituminous surfacing	11	26,51
Goobang	3,	Bridge over Bullock Creek,	Approaches		6 70
Lachlan	200	0.8 km west of Tullamore	Approaches	**	6,79
Goobang	238	Mugincoble to Jemalong Shire boundary	Reconstruction and		
		•• • • • • • • • • • • • • • • • • • • •	bituminous surfacing	**	31,770
**	350	Murderers Waterhole,			
i.		17.42 km north of Forbes	Elimination of causeways .	**	12,36
Goodradigbee	52	32.1 km to 36.5 km south to Gunning	Reconstruction and	•	
			bituminous surfacing	11	113,29
	56	Boorowa River, 23.2 km north of Yass	Steel and concrete		
			bridge and approaches	11	5,89
11	249	4.51 km to 6.12 km south of Gundaroo	Reconstruction and		
			bituminous surfacing	11	12,10
Gosford	336	2.6 km to 4.2 km north of Gosford	,,	,,	267,23
••	349	Bridge over Brisbane Waters at the Rip	Approaches	O.	2,91
	349	Coorumbene Creek	••	"	
		0.5 km south of Gosford	Prestressed concrete bridge	**	13,05
	504	MR336 to Kincumber	Reconstruction and widening	**	38,23
Goulburn	54	1.9 km to 2.43 km west of Goulburn	Reconstruction and	••	55,25
acaiba	34	S. O KIT TO E. TO KIT WEST OF GODIDATIT	bituminous surfacing		3,49
	54	0 km to 0.8 km west of Goulburn	_	**	-
	54 54		Drainage improvement	Department	3,88
 Graffon		Marsden Bridge, 2.41 km north of SH2	Foundation test boring	Department	57
Grafton	74	Bridge over Musk Valley Creek,			
	- -	0.4 km south of Grafton	_ "	**	2,05
**	74	2.96 km to 4.12 km south of Grafton	Reconstruction and		
			bituminous surfacing	Council	4,39
**	74	Cambridge St to George St, Grafton	••	11	14,16
Great Lakes	90	39.18 km to 60.24 km south of Taree	Reconstruction of failed section	16	7,08
	111	Various lengths, 56.4 km to 60.5 km			
		north of Bulahdelah	Reconstruction of failed pavement	.,	7,08

Summary of Payments from Department's Funds on Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(III) TRUNK AND OF	RDINARY	MAIN ROADS - continued			\$
Greater Cessnock	195	Swamp Creek, 2.49 km north of			
		Kurri Kurri (Homestead Bridge)	Reinforced concrete bridge	Council	6,256
**	218		Reconstruction and widening	**	84,9721
Gundagai	279	5.62 km to 7.11 km south of Gundagai	Relocation and reconstruction		40.004
			and bituminous surfacing	*1	16,994
Gundurimba	147	16.2 km to 18.8 km north of Woodburn	Reconstruction and		44 565
			bituminous surfacing	, ,	11,555
**	544	9.96 km to 11.85 km west of Lismore	Reconstruction and		12 9071
			bituminous surfacing	*1	13,897
Gunning	52	26.0 km to 29.34 km south of Gunning	***	**	40,884 702
	52	15.58 km to 25.99 km south of Gunning		·	5,270
**	249	19.38 km to 21.08 km south of Gunning	Reconstruction and gravel surfacing	*1	5,270
	249	25.99 km to 29.34 km south of Gunning	B	13	5,079
Guyra	73	4.54 km to 8.64 km north of Bundarra	Reconstruction and		27,150
•			bituminous surfacing	1.	31,729
***	73	19.0 km to 23.0 km south of Inverell	••	**	1,743
11	135	19.89 km to 23.74 km west of Guyra	**	**	7,789
11	135	27,36 km to 28.65 km west of Guyra	**	**	1,109
Harden	84	Bridge over Spring Creek, 14.5 km	A		14,162
		east of Murrumburrah	Approaches	**	2,687
	84	11.30 km to 13.8 km west of Harden	Widening of formation and pavement	**	2,007
*1	84	7.7 km to 9.55 km west Harden	Reconstruction and		7,081
	••	0.55 to 4. 44.00 to	bituminous surfacing Reconstruction and	**	7,061
"	84	9.55 km to 11.30 km west of Harden			6,455
	0.4	4.7 km to 4.0 km wast still and an	bituminous surfacing	*1	0,433
11	84	1.7 km to 1.9 km west of Harden			2,620
	500	(Albury St, Murrumburrah)	***	11	12,783
Hastings	538	0 km to 1.6 km east of Lorne	·	**	12,703
11	600	Bridge over Fernbank Creek, 8.0 km	Annanahaa		11,330
		north of Port Macquarie	Approaches	11	11,330
Hay	514	63.0 km to 66.21 km west of Hay	Reconstruction and		37,323
	***	00 04 lim to 00 47 lim word of blow	bituminous surfacing	11	16,013
••	514	66.21 km to 69.47 km west of Hay	11	11	35,405
	514	68.8 km to 73.0 km west of Hay	11	41	33,403
Holbrook	284	Little Billabong Creek,	Paintered concrete bridge		75
	204	0.08 km east of SH2	Reinforced concrete bridge Reconstruction and base	**	, ,
	331	28.65 km to 35.25 km east of TR78	course gravelling		9,781
	221	34.2 km to 46.3 km east of Holbrook	Surface course gravelling	**	3,701
**	331	34.2 Kill to 40.3 kill 6ast of Holbrook	and bituminous surfacing		55,903
Lluma	78	10.6 km to 12.7 km north of Albury	Reconstruction and	n	55,555
Hume	70	10.6 Kill to 12.7 Kill Holdi Ol Albury	bituminous surfacing		28,324
	78	37.53 km to 38.85 km north of Albury	Reconstruction and	••	20,024
••	10	37.53 km to 36.63 km north of Albury	bituminous surfacing		13,082
	547	28.11 km to 29.64 km north of Albury	<u>•</u>	11	38,505
ii Isalaw		13.28 km to 13.8 km east of SH1	11	**	2,471
Imlay	91 91	Bridge over Honeysuckle Creek,	•11	**	-,-, ,
H	91	25.4 km west of SH1	Design by consultants	Department	2,194
	275	Candelo Creek at Candelo	Prestressed concrete bridge	Council	64,510
 Jemalong	237	32.7 km to 35.6 km north of Grenfell	Reconstruction and	000	- 1,010
Jemaiong	231	S2.7 Kill to SS.0 kill florth of aremen	bituminous surfacing		18,858
	377	Bridge over Jemalong Creek,	bitalimious surfacing	**	. 0,000
**	3//	23.3 km west of Forbes	Foundation test boring	Department	444
locildorio	323	27.85 km to 32.36 km east of SH17	· ·	Council	50,170
Jerilderie	323	23.01 km to 27.84 km east of SH17	**		24,978
11	552	0 km to 2.5 km west of Jerilderie	**	11	28,324
1,1000	243	Victoria St, 0.5 km west of Junee	Twin reinforced concrete box culvert	**	9,087
Junee	243 198	32.74 km to 32.76 km north of Kempsey	Intersection		11,330
Kempsey	211	18.1 km to 19.8 km	Reconstruction and	**	,000
Kyeamba	211	south of Wagga Wagga	bituminous surfacing		7,357
	211	14.0 km to 15.98 km	D. D	*1	.,00
*1	211				33,963
Kunala	pn.	south of Wagga Wagga	Reinforced concrete bridge	••	1,342
Kyogle	83 57	Black Gully 22.74 km north of Casino	_	**	1,277
Lachlan	57 57	Bullock Creek, 0.8 km west of Tullamore	Prestressed concrete bridge Reconstruction and	**	1,47
17	57	50.25 km to 51.96 km north of Condobolin			
•			bituminous surfacing		4,702

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City, Municipal or Shire Area	Ro a d No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/7
(III) TRUNK AND C	RDINARY	MAIN ROADS — continued			\$
Lachlan	57	Wallamundry Creek, 11.5 km south			
		of Condobolin	Approaches	Council	14,91
	57	45.9 km to 46.2 km north of West Wyalong	Reconstruction and		
			bituminous surfacing	**	3,49
41	57	0 km to 4.8 km south of Fifield		11	3
ake Macquarie	509	Mannering Creek at Wyee	Prestressed concrete bridge	**	56,64
••	509	Bridge over Mannering Creek at Wyee	Approaches	19	36,82
ismore	65	0.55 km to 1.88 km north of	Reconstruction and		
		intersection with SH16	bituminous surfacing	**	7,08
	65	1.26 km to 4.76 km north of Lismore	11	.,	5,23
**	65	2.77 km to 3.41 km north of SH16	**	1.	64
	555	Elizabeth St to Skyline Rd, Wardell	11	11	14,16
iverpool Plains	55	Unnamed creek, 23.87 km south of SH11	Reinforced concrete box culvert		50,98
ockhart	370	13.2 km to 14.2 km and			,
	0.0	18.8 km to 20.4 km south of	Reconstruction and		
		Narrandera Shire boundary	bituminous surfacing		4,19
.yndhurst	246	2.83 km to 7.05 km north of Newbridge	•	**	4,57
.ynunuist	246	6.1 km to 7.36 km north of Newbridge		**	46,73
	135	40.25 km to 42.8 km south of Inverell	11	*1	16,99
Macintyre			**	**	
11	136	12.13 km to 16.9 km north of Inverell	ř.	**	24,04
11	137	Bridge over Swanbrook Creek,			
		5.6 km north of Invereil	Approaches		44,93
••	137	Swanbrook Creek,			
		5.6 km north of Inverell	Reinforced concrete bridge	11	6,40
14	187	Jessies Gully, 14.3 km north of Inverell	Prestressed concrete bridge	*1	10,62
••	187	14.3 to 14.4 km north of Inverell	Reinforced concrete box culvert		
			and approaches	**	31,86
Maclean	151	31.65 km to 32.65 km north of Grafton	Reconstruction and raising of formatio	n ,,	45
**	152	2.5 km to 2.9 km east of Yamba	Drainage and associated earthworks	**	1,69
	152	6 km to 7 km east of Maclean	Reconstruction and		•
11	,		bituminous surfacing		45,31
	152	0 km to 0.24 km west of SH10	<u> </u>	•••	4,24
 Macleay	75	55 km to 59.5 km west of Kempsey	"	41	26,90
Maitland	104	8.5 km to 13.9 km north of SH9	Reconstruction and surface	, 64	20,0
Manianu	104	6.5 kiii to 13.5 kiii 1101tii ol 3115			41
	010	1.40 km to 1.6 km south of Maidand	course gravelling	(1	-
	218	1.43 km to 1.6 km south of Maitland	Surfacing correction and		0.00
	057	40.071	bituminous surfacing	**	9,28
Manilla	357	12.87 km to 16.58 km west of Manilla	Reconstruction and		0
			bituminous surfacing	41	55,2
Manning	90	0.7 km to 3.5 km west of SH10 at Purfleet	Reconstruction and sealing	**	21,2
Mitchell	78	10.94 km to 12.36 km	Reconstruction and		
		north of Wagga Wagga	bituminous surfacing.	*1	10,0
••	78	12.36 km to 15.74 km			
		north of Wagga Wagga	•	**	46,5
Moree	232	Intersection with SH17	Improvement	41	2,7
Mudgee	233	35.4 km to 40.1 km west of Gulgong	Reconstruction and		
-			bituminous surfacing	,,	21,3
	233	35.4 km to 40.1 km west of Gulgong		**	4,2
Mulwaree	256	34.44 km to 35.41 km north of Goulburn	Reconstruction and	•	,-
		-	bituminous surfacing	**	17,3
	256	Tarlo River, 19.6 km north of Goulburn	Prestressed concrete bridge	11	15,4
 Mumbulla	272	Booths Creek, 19.2 km north of Bega	Reinforced concrete box culvert	11	,.
	272	Bridge over Narira Creek, 1.1 km to		11	
••		2.2 km east of Cobargo	Approaches		11,3
	272	Booths Creek Bridge, 18.5 km to	присто	**	, •
**	212	20.0 km north of Bega			28,3
	220	6.6 km to 8.21 km east of SH1	Reconstruction and	. **	20,3
**	320	0.0 km to 0.2 i km east of SH I	Reconstruction and		
	0.4	43.9 km to 46.2 km want of Daniliani-	bituminous surfacing	11	15,2
Murray	94	42.8 km to 46.3 km west of Deniliquin	Desire attended to	1+	22,1
Murray Darling	66	63.5 km to 65.0 km east of Broken Hill	Raising of formation and	_	
Division			bituminous surfacing	Department	1,6
Murrumbidgee	321	68.3 km to 76.0 km north of SH17	Widening and bituminous surfacing	Council	49,5
	321	Bridges over Murrumbidgee River			
		at Darlington Point	Approaches	**	28,3
	321	0 km to 1.21 km from SH14 at Waddi	Deviation		5,1
	321	Bridge over Murrumbidgee River			,
		at Darlington Point	Design by consultants	Department	1,
					**

Summary of Payments from Department's Funds on Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(III) TRUNK AND C	RDINARY	MAIN ROADS — continued			<u> </u>
Murrurundi	358	25.6 km to 28.8 km south of SH9	Reconstruction and		
Murrarana	336	25.6 km to 26.6 km south of 5H9	bituminous surfacing	Council	14,162
	358	20.12 km to 24.62 km west of SH9.	bitatimious surfacing	Council	14,102
,,	000	Willow Tree			32,988
Nambucca	118	18.06 km to 19.38 km	••	**	52,550
, tumbuoou	,,,	north west of Macksville			29,740
	533	22.1 km to 23.2 km west of Macksville		11	25,492
Namoi	127	8.64 km to 9.66 km west of Wee Waa	Construction of base course		35,106
	127	7.48 km to 7.88 km west of Wee Waa	Reconstruction and bituminous	.,	33,.00
"	. = .		surfacing (including reinforced		
			concrete box culvert)	*1	43,173
	127	9.66 km to 10.32 km west of Wee Waa	Construction of base course	**	8,405
,,	343	2.4 km west of Wee Waa	Reinforced concrete box culvert	21	29,811
,,	343	Talladunna Bridge,			
		2.4 km west of Wee Waa	Culverts in approaches	.,	17,703
Narraburra	398	13.0 km to 19.0 km south of Ariah Park	Reconstruction and		
			bituminous surfacing		41,625
Narrandera	80	4 km to 5 km west of SH17		•	29,076
	80	3.0 km to 4.0 km west of			
**		SH17 at Narrandera			11,761
Newcastle	82	Railway overbridge at	.,		•
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Donald St. Hamilton	Extension of approaches	**	8,923
	82	Lawson St to Samdon St, Hamilton	Passing lane	,,	144,453
,,	82	Donald St. Hamilton	Railway overbridge	Department	160,191
	108	North Arm of Hunter River at Stockton	Reinforced concrete bridge		247,459
**	217	Cobby St to McArthur St,	Reconstruction and	.,	,
	- ' '	Birmingham Gardens	bituminous surfacing	Council	10,954
	316	Bridge over railway between			•
**	5,0	Perry and Hannel Sts, Wickham	Foundation test boring	Department	9,627
	603	SH23 (Charlestown Rd) to MR223	Reconstruction and	Dopu ro	5,52.
**		(Cardiff Rd)	bituminous surfacing	Council	7,604
	605	SH23 to Lorna St, Waratah	Second carriageway	,,	5,573
Nundle	106	6.46 km to 7.77 km south of Nundle	Reconstruction and	**	0,2.0
			bituminous surfacing		4,429
Nymboida	74	Blicks River Bridge,	•	**	.,
,		86.1 km south of Grafton	Provision of asphaltic concrete surface	Department	10,513
	74	Koukandowie Creek.			
**		19.0 km south of Grafton	Prestressed concrete plank bridge	Council	10,999
Oberon	255	Reinforced concrete box culvert at	- Total Control of States and States		10,000
		Kings Stockyard Creek,			
		2.74 km north of Oberon	Approaches	11	4,249
,,	255	2.58 km to 6.6 km north of Oberon	Reconstruction and		
.,			bituminous surfacing	**	2,173
	255	Kings Stockyard Creek,	- -		
,,		2.74 km north of Oberon	Reinforced concrete box culvert	re	12,491
	256	34.15 km to 39.5 km south of Oberon	Surface course gravelling		
11			and bituminous surfacing	**	19,167
Orange	526	McKay Crescent to City boundary	Reconstruction and		
			bituminous surfacing		11,924
Parry	63	20.70 to 21.96 km north of Tamworth		**	14,870
Patrick Plains	213	9.58 km to 11.49 km west of MR503		**	5,402
	503	23.56 km to 25.23 km south of Singleton	4.5	,,	5,321
.,	503	21.69 km to 23.56 km south of Singleton	**	**	4,336
Peel	130	9.45 km to 11.0 km south of Tamworth			26.758
Port Stephens	108	Newcastle Golf Club to Stanley Park	Provision of kerbing,		
			guttering and drainage		12,782
	518	3.51 km south of Medowie	Deviation	**	73,947
Queanbeyan	51	Queanbeyan-Cooma Overbridge near			
400400,4		Gilmore Rd, Queanbeyan	Public utility adjustment	17	4,640
	51	Deviation overbridge between	,,		
**		Canberra and Queanbeyan	Approaches	11	9,242
	52	Endurance St to	Reconstruction and	,,	- ,
••	U L	Thurralilly St, Queanbeyan	bituminous surfacing	••	128,648
	584	Fergus St to Bulgar St, Queanbeyan		**	3,096
,, Quirindi	126	Henry St level crossing at Quirindi	Flashing lights and warning bells	**	14,162
Quirindi	120	Holling Ottorol Clossing at Quilling	. warming my man manning pens	**	1-711-02

*Credit

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
III) TRUNK AND O	RDINAR'	MAIN ROADS — continued			\$
Scone	62	Railway crossing, Liverpool St, Scone	Installation of "F" type flashing lights	Council	515
17	62	40.51 km to 42.51 km west of Scone	Reconstruction and		
			bituminous surfacing	**	36,821
••	62	37.1 km to 40.5 km west of Scone	**	11	3,275
Severn	136	29.6 km to 38.6 km west of SH9			
		(Deepwater to Emmaville)	,,	**	28,324
••	382	33.2 km to 34.1 km west of Glen Innes	21	*1	8,029
**	382	Bridge over Camerons Creek,			
		32 km north of Glen Innes	Approaches		7,832
**	382	Camerons Creek, 32.0 km north			
		of Glen Innes	Prestressed concrete bridge	**	7,640
**	382	Stoney Creek, 35.4 km north-west			
		of Glen Innes	Reinforced concrete box culvert	**	87,80
Shellharbour	522	Windang Bridge to Redall Parade,			
		Lake Illawarra	Southern approach	11	20,814
	522	Redall Pde to Peterborough Ave.	Reconstruction and provision		
		Lake Illawarra	of dual carriageway	**	7,43
Shoalhaven	261	Cambewarra Mountain,			
		10.4 km north of Nowra	Realignment of lower elbow	Department	3,94
••	261	2.57 km to 4.43 km north of SH1	Realignment and provision of		
			slow vehicle lane) r	1,610
11	267	0 km to 1.6 km east of SH1	Reconstruction and		
			bituminous surfacing	Council	26,20
11	267	6.1 km to 7.7 km west of Huskisson	**	11	39,654
Singleton	128	15.2 km to 16.77 km east of Singleton	Reconstruction and		
			bituminous surfacing	**	42,48
Snowy River	286	37.3 km to 40 km west of Jindabyne	Reconstruction and		
			bituminous surfacing	Department	93,11
••	286	54.0 km to 55.6 km west of Cooma	Pavement strengthening	Council	45,31
Talbragar	572	12.39 km to 14.96 km west of SH17	Reconstruction and		
_		at Eumungerie	bituminous surfacing	**	13,18
44	572	Drillwarrina Creek at Eumungerie	Reinforced concrete bridge		
			and approaches	11	4,11
Tallaganda	51	27.4 km to 35.8 km east to Braidwood	Strengthening and		
-			drainage improvement	11	10,09
	92	10.0 km to 14.0 km east of Braidwood	Reconstruction and		
			bituminous surfacing	,,	7,20
,,	270	2.5 km to 5.6 km south of Braidwood	-	•	2,52
Tamarang	72	Quipolly Creek, 13.70 km to 15.25 km			
		north of Quirindi	Approaches		21,24
Temora	57	0.3 km south to 0.6 km north of Temora	Reconstruction and		
			bituminous surfacing		41,05
*1	241	0.9 km to 1.7 km east of Temora	"	10	8,09
Terania	65	Selected sections, 10.18 km to			
		10.60 km north of Lismore	.,	11	6,20
**	65	Railway overbridge near Bex Hill,			
		10.1 km east of Lismore	Foundation test boring	Department	14
Timbrebongie	89	Bridge over Fiddlers Creek,	-		
<u> </u>		7.08 km north of Tomingley	Approaches	Council	9,93
41	89	Backwater Cowal,	.,		-,00
		4.4 km south of Narromine	Prestressed concrete bridge		3,70
···	89	Backwater Cowal Bridge,		**	0,.0
		4.14 km south of Narromine	Approaches		42,48
	89	Bridge over Fiddlers Creek,	, ,		,
		7.08 km north of Tomingley			8,83
*1	347	22.4 km to 30.4 km south of Trangle	Reconstruction and	**	-,
			bituminous surfacing		51,97
	572	19.96 km to 24.14 km north of Narromine		*1	9,53
Tintenbar	146	5.65 km to 6.37 km north west of SH10	Widening and strengthening of	**	<i>9</i> ,33
 -	-		existing pavement		10
Tumbarumba	281	2.32 km to 4.83 km south of MR282	Reconstruction and	11	i U
	201	2.22 mm to 1.00 mm dodin of mileon	bituminous surfacing		2.04
	282	31.9 km to 33.8 km south of Tumbarumba	•	**	2,94
 Tumut	85	18.99 km to 23.17 km south of SH4	••	**	25,49
	54	42.7 km to 47.88 km north of Bathurst	11 ,	**	59,48 32,05
Turon					
Turon 	253	18.43 km to 20.12 km south of Kelso	••	"	210

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(III) TRUNK AND C	RDINAR	Y MAIN ROADS — continued	Reconstruction and		\$
Tweed	142	50.65 km to 52.3 km north of Lismore	bituminous surfacing	Council	7,854
11	399	19.4 km to 23 km west of MR143		**	6,860
"	399	19.4 km to 23.0 km west of MR143		**	9,517
Jimarra	74	Bridge over Musk Valley Creek,	"	,,	-,
J.,,,,,,,,,		4.7 km south of Grafton	Foundation test boring	Department	4,656
	151	Glenreagh Creek,	, our lock our my		.,
**		46.15 km south of Grafton	Reinforced concrete bridge	Council	3,844
Uralia	132	1.29 km to 2.29 km west of Bundarra	Reconstruction and	Council	0,044
Utalia	132	1:29 KIII (O 2:29 KIII WEST OF BUILDAITA	bituminous surfacing		10,970
Irono	59	21.0 km west of Urana	Reinforced concrete box culvert	••	3,144
Jrana	323	23 km to 33.6 km west of MR131	Reconstruction and	11	3,144
**	323	23 KM (0 33.0 KM West Of MIN 13)			22,659
	205	36 E km to 44 1 km north of livens	bituminous surfacing	13	43,752
11	385	36.5 km to 44.1 km north of Urana		*1	17,241
Wade	80	3.7 km to 4.1 km east of Griffith	Channellisation of intersection	11	17,241
**	80	1.2 km to 2.68 km west of Griffith	Reconstruction and		04 500
			bituminous surfacing	**	31,596
**	80	9.92 km to 12.14 km east of Griffith	"	11	36,232
**	80	6.7 km to 8.3 km east of Griffith		**	124
*11	321	2.41 km to 2.7 km south of Griffith	••	11	50,693
Wagga Wagga	78	0.58 km to 2.25 km south of SH14	и	••	17,023
11	211	2.94 km to 4.84 km	Reconstruction and channellisation		
		south of Wagga Wagga	of intersection	**	93,859
Wakool	65	Bridge over Wakool River at Kyalite	Design by consultants	Department	6,353
**	319	Bridge over Yarrein Creek,			
.,		62.0 km north of Barham	Approaches	Council	35,688
	319	Bridge over Yarrein Creek,			
**	• • •	62.0 km north of Barham	Approaches		35,688
	319	Yarrein Creek, 62.0 km north of Barham	Reinforced concrete box culvert	••	93,469
**	386	21.48 km to 29.5 km west of MR319	Reconstruction and	.,	70,.00
**	300	21.40 KIII (U 25.5 KIII ₩65(U MIN515	bituminous surfacing		26,860
	386	14.78 km to 21.48 km west of MR319	braining surfacing	••	12,084
14			Reinforced concrete box culvert	**	3,237
Waugoola	56 007	Unnamed creek, 21.4 km north of Cowra		41	3,237
**	237	35.5 km to 37.5 km north of Grenfell	Reconstruction and		8,749
		04 70 1 1- 00 0 1	bituminous surfacing	**	0,/48
Weddin	237	24.78 km to 28.0 km north of Grenfell	Reconstruction and		40 470
			bituminous surfacing	1.7	12,478
**	237	24.7 km north of Grenfell	Reinforced concrete box culvert	11	28,324
"	237	24.7 km north of Grenfell	***	**	44,072
11	398	4.35 km to 7.35 km south of Grenfell	Reconstruction and		
			bituminous surfacing	n	15,162
11	398	44.25 km to 46.45 km west of Grenfell		11	14,162
Wellington	573	57.8 km to 59.7 km from Orange			
•		towards Wellington	**	11	68,686
	573	Stoney Creek, 57.32 km north of Orange	Prestressed concrete bridge	11	28,324
	573	55.35 km to 56.80 km north of Orange	Reconstruction and		
		•	bituminous surfacing	.,	10,803
Wentworth	68	55.5 km to 72.7 km north of Wentworth		.,	8,124
	68	74.82 km to 93.34 km north of Wentworth		.,	51,633
11	68	78.3 km to 81.45 km north of Wentworth			16,343
11	431	0 km to 2.74 km north of SH22	••	**	6,170
Minaham	192	Intersection with MR112	Improvement		24,075
Wingham			•		24,010
Wingecarribee	263	Wildes Meadow to Fitzroy Falls	Reconstruction and		20 745
	004	0.51	bituminous surfacing	1.	39,745 15,487
	264	3.5 km to 5.8 km south of SH25	ty.	***	13,401
Wollondilly	9 5	Main Southern Railway Line,	Occasional designation of the Control of the Contro	D	
		5.15 km east of Picton	Overbridge (Bailey Bridging only)	Department	105
Wollongong	95	0 km to 14.5 km west of MR513	Reconstruction and		
			pavement strengthening	.,	13
*1	95	MR186 to F6, Gwynneville	Reconstruction and provision of		
			dual carriageway	**	12,897
11	95	Bryburghs Property at Mt. Ousley	Provision of alternate access	19	5
	295	Glastonbury Ave, Unanderra to SH1	Deviation	Council	27,41
**	513	Bulli Pass to Bellambi Creek,	Reconstruction and asphaltic		
	- · -				

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
III) TRUNK AND O	RDINARY	MAIN ROADS — continued			\$
Wollongong	522	Bridge over entrance to			
- -		Lake Illawarra, Windang	Northern approaches	Council	25
	613	King St and Northcliffe Dr. Warrawong	Improvement of intersection		15,578
**	613	F6 to SH1, Berkeley	Dual carriageway	Department	23,291
Voodburn	145	0.82 km to 1.27 km west of SH10	Reconstruction and		
			bituminous surfacing	Council	7,741
***	145	0.32 km to 1.93 km west of SH10	+1	11	7,741
**	145	Rocky Mouth Creek at Woodburn	Reinforced concrete bridge	11	4,412
Vyong	335	Bridge over Ourimbah Creek,			
		2.5 km east of Tuggerah	Foundation test boring	Department	9,653
**	50 9	Bridge over Tuggerah Lake at			
		Wallarah Point		11	21,567
Yallaroi	63	Oakey Creek, 15.0 km south of Warialda	Prestressed concrete bridge	Council	2,172
••	63	Bridge over Oakey Creek,			
		15.0 km south of Warialda	Approaches	11	23,629
**	63	16.26 km to 19.07 km south of Warialda	Widening and strengthening		
			of pavement	**	11,330
Yarrowlumla	51	3.0 km to 10.0 km east of Queanbeyan	Formation, widening and		
			drainage improvement	**	6,230
**	268	34.55 km to 36.42 km	Surface course gravelling		
		north east of Queanbeyan	and bituminous surfacing	1,,	3,126
	268	32.0 km to 36.0 km north of Queanbeyan	Reconstruction and		
			bituminous surfacing		20,821
**	268	35.16 km to 36.42 km	Reconstruction and		
		north of Queanbeyan	base course gravelling	***	11,925
4.7	268	36.42 km to 39.1 km north of Queanbeyan	Surface course gravelling		
			and bituminous surfacing	**	345
			Total Trunk and C	Ordinary Main Roads	6,447,582
(Iv) TOURIST ROA	DS				
Eurobodalia	4054	0 km to 2.8 km east of Sunpatch	Formation and bituminous surf	lacing Council	8,04
lmlay	4037	3.22 km to 5.75 km east of SH1	Reconstruction and widening	ί,,	7,38
Maclean	4034	0 km to 14.48 km south of Angourie	Southern carriageway	**	21
Tintenbar	4051	0 km to 4.02 km north of Ballina	Reconstruction and		
		Municipal boundary	bituminous surfacing		2,75
Ulmarra	4049	Wooli Rd towards Minnie Water			
		(2.95 km to 3.60 km)		*1	31,29
**	4049	Wooli Rd towards Minnie Water			
		(3.60 km to 4.19 km)	11	11	10,05
			•	Total Tourist Roads	33,69
					== ===================================
(v) ROADS OTHER	THAN M		December and		
Coffs Harbour		Park Beach Rd, 0.045 km to	Reconstruction and	Council	575
		0.37 km east of SH10	bituminous surfacing	••••	
Gosford		Brisbane Waters at the Rip	Asphaltic concrete surfacing o	-	2,648
11 NA 1 1		Brisbane Waters at the Rip	Prestressed concrete bridge	Coupeil	12,340
Narrabri		Narrabri Creek, Violet St, Narrabri	Reinforced concrete bridge	Council	6,618
Patrick Plains		Glennies Creek Bridge, 20.1 km north	A		6 004
		of Singleton at Upper Falbrook	Approaches	***	6,386
			Total Roads ot	her than Main Roads	23,271
				Works	Property
SUMMARY				Expenditure	Aquisition
F				\$ 46 406	\$ 56,12
Freeways	,			46,405	•
State Highways	n. Mai- P	oodo	**	13,193,382	1,153,309
Trunk and Ordina	ry Main Ri			6,447,582	133,30
Tourist Roads				33,691	30,44
Roads other than	Main Roa	as		23,271	1,97
				19,744,331	1,375,14
Miscellaneous, mi	nor works	setc		452,370	1,049,97
		*			//2. 27771
	ومنجنين والمرام	ion) as shown in receipts and normants at	tomente		
		ion) as shown in receipts and payments sta	itements —	20,196,701	2,425,11

APPENDIX No. 8A COUNTRY MAIN ROADS FUND — SPECIAL PURPOSES

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(I) FREEWAYS					\$
Southern Freeway	5 0	Oladahara Assa As Eliza latan da Bel Eintera	Post and and	December	105 000
Wollongong	F6	Gladstone Ave to Five Islands Rd, Figtree		Department	105,838
			То	al Freeways	105,838
(II) STATE HIGHWA	YS				
Princes Highway		5			
Imlay	1	Bega to Frogs Hollow	Reconstruction and bituminous surfacing	Department	507,087
Shoalhaven	1	Meroo Meadow, 152.1 km to 155.3 km south of Sydney	Improvement to alignment and grading]	923,119
11	1	Jaspers Creek, 148.4 km to 150.5 km south of Sydney	Deviation		632,144
		oolo kiii aaan oo oyanoy		.,	2,062,350
Mid Western Highwa	•				
Abercrombie	6	Bridge over Evans Plains Creek, 8.6 km west of Bathurst	Approaches	Department	211,238
Lyndhurst	6	Railway level crossing to	Reconstruction and		,200
•		Martha St, Blayney	bituminous surfacing		368,255
					579,493
Mitchell Highway	_			D	400 440
Bourke	7	185.1 km to 187.0 km south of Bourke	Reconstruction and widening	Department	199,419 199,419
Pacific Highway	40	50.01 m to 54.4 km month of Dalling	Strongth wing and		
Byron	10	52.8 km to 54.4 km north of Ballina	Strengthening and bituminous surfacing	Department	197,404
Grafton	10	Swan Creek,5.8 km north of Grafton	Prestressed concrete bridge	.,	678.068
Hastings	10	Telegraph Point, 96.5 km to Barries			
		Creek, 102.9 km north of Taree	Deviation	Department	591,700
Lake Macquarie Macleay	10 10	12.6 km to 13.7 km south of Newcastle 14.48 km to 19.31 km north of Kempsey	Dual carriageway Reconstruction of damaged pavement	• •	430,126
WidCleay	10	14.46 kii to 19.51 kiii liotti ol Kempsey	and concrete surfacing	•	399,338
	10	Unnamed creek,			
Nombuses	10	20.3 km north of Kempsey 33.4 km to 37.9 km north of Kempsey	Prestressed concrete bridge Reconstruction of distressed pavemer	44 1	767 284.409
Nambucca Ulmarra	10 10	Bridge over Swan Creek, 4.0 km	ricconstituction of distressed paventer	ιι .,	207,403
		to 6.3 km north of Grafton	Approaches	**	450,673
					3,032,485
Oxley Highway					
Coonabarabran	1 1	54.7 km to 61.1 km	Reconstruction and	n	A.A.==
	11	east of Coonabarabran 38.49 km to 38.98 km west of Gunnedah	bituminous surfacing Approaches to Coxs River Bridge	Department	346,235 295,455
 Coonabarabran	11	Coxs Creek, 63.7 km east		**	400,700
Liverpool Plains	44	of Coonabarabran	Prestressed concrete plank bridge	**	264,194
Walcha	11	54.71 km to 58.73 km east of Walcha	Reconstruction and bituminous surfacing	**	945,780
,,	11	Various locations, 9.5 km to 43.05 km east of Walcha	Reconstruction of distressed pavemen		216
**	11	38.5 km to 48.27 km east of Walcha	Reconstruction or distressed pavement	N .,	216
			bituminous surfacing	**	2,985
	11	48.27 km to 54.71 km east of Walcha		••	131,946
O	11	58.73 km to 79.65 km east of Walcha	0	**	159,874
•					2,146,685

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(II) STATE HIGHWA	YS - co	ntinued		-	\$
Sturt Highway					
Hay 	14 14	45.0 km to 50.0 km west of Hay 27.2 km to 31.4 km west of Hay	Reconstruction and widening Reinstatement and bituminous	Department	178,621
Kyeamba	14	49.5 km to 60.6 km west of Gundagai	surfacing of stabilised pavement Reconstruction and	"	308,541
		AA 2 lim to 40 4 lim iii at 6 Ciin do a i	bituminous surfacing		626,438
 Wakool	14 14	44.3 km to 49.4 km west of Gundagai 24.6 km to 28.96 km east of Balranald	D	**	182,980
		(82.2 km to 114.4 km west of Hay)	11	**	348,834
					1,645,414
Bruxner Highway					
Boolooroo	16	0 km to 8.9 km west of Boggabilla	Reconstruction and		
			bituminous surfacing	Department	906,372 906,372
Newell Highway					
Narrabri	17	Narrabri Creek and Narrabri Rivulet Bridges, 0.24 km to			
		0.67 km south of Narrabri	Approaches	Department	58,201
11	17 17	Narrabri Rivulet at Narrabri Narrabri Creek at Narrabri	Reinforced concrete bridge Prestressed concrete girder bridge	**	199,290 1,012,091
	17	National Cieck at National	r restressed concrete grider bridge	. "	1,269,582
Monaro Highway				· .	
Monaro 	19 19	Bridge over Bredbo River at Bredbo 82.0 km to 89.0 km south of Canberra	Fabrication of steel girders Reconstruction and	Department ·	62,994
	19	78.0 km to 82.0 km south of Canberra	bituminous surfacing	**	731,542
.,		including approaches to Bredbo River		**	55,712
					850,248
Cobb Highway					
Central Darling	21	12.87 km to 36.2 km south of SH8	Reconstruction and		
		near Wilcannia	bituminous surfacing	Department	461,153
					461,153
Illawarra Highway Wingecarribee	25	62.8 km to 63.9 km west of SH1	Reconstruction to improved alignment	Department	534,150
"	25	58.9 km to 62.83 km west of SH1	Reconstruction and approaches to bridges over Wells and		
			Black Bobs Creeks	11	380,164
					914,314
			Total Sta	te Highways	14,067,515
(III) TRUNK AND O	RDINAR 421	Y MAIN ROADS North of Cobar towards Bourke	Reconstruction	Council	271,52
Mudgee	321	Bridge over Murrumbidgee River,	Prestressed concrete bridge		
	321	Darlington Point Murrumbidgee River, Darlington Point	in approaches Prestressed concrete bridge	Department	65 219,63
Wollongong	295 513	Port Kembla North Railway Station Bellambi Creek to TR95	Railway overpass and approaches	Council	3,27
		near Brokers Nose	Fourth lane	Department	306,36
			Total Trunk and Ordinary		801,43

APPENDIX No. 8A — continued COUNTRY MAIN ROADS FUND — SPECIAL PURPOSES Summary of Payments from Department's Funds on Construction and Reconstruction Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(iv) ROADS OTHE	R THAN M	AIN ROADS			\$
Ballina		Cane roads	Upgrading	Council	82,000
Byron			, ,		4,500
•		**	***	**	7.000
Lismore		"	**	**	
Maclean		н	**	11	142,500
Richmond River		1)	11	,,	54,500
Tumbarumba		Alpine way 39.80 km to			
		41.56 km west of Jindabyne	Reconstruction and gravel surfacing	Department	90,439
Tweed		Cane roads	Upgrading	Council	9,500
			Total Roads other tha	n Main Roads	390,439
				Works	Property
SUMMARY			Ex	penditure	Acquisitions
				\$	\$
Freeways				105,838	_
State Highways				1,067,515	_
Trunk and Ordina				801,438	_
Roads other than	-			390,439	_
		and payments statements — Appendix	x No. 1(C)(ii)	5,365,230	

APPENDIX No. 9
COMMONWEALTH AID ROADS FUND
Summary of Payments from Grants under the National Roads Act on Maintenance and Minor Improvement Works

Road No.	Chira Area	Department	ied out by Council	Total
	Shire Area	Department	Council	10181
(A) COUNTY OF	CUMBERLAND AREA	\$	\$	\$
i) Freeways	Newscattle Erecurey			
·s — Sydney to i	Newcastle Freeway Hornsby	. 1,918		1,91
	•			
5 - South West		400 450		138.15
	Campbelltown	138,152		
	Total — Freeways	140,070	-	140,07
_				
li) State Highwa	•			
SH2 — Hume Hig	Camden	45,809		45,86
	Liverpool	. 15,445	_	15,4
				
		61,254		61,2
SH10 — Pacific I	Highway Hornsby	20,414	_	20,4
	•			
	Total — State Highways	81, 568		81,6
(III) Ordinary Ma MR177	4.5	15,445	_	15,4
MR177 MR178	Camden	1,213	_	1,2
WINTIO			my Andrewson Anna Communication Communicatio	16,6
	Total — Ordinary Main Roads	16,658		10,0
(B) COUNTRY U	UNDAN AKEA			
(i) State Highwa	•		•	
SH2 — Hume Hi		07.000		27.0
	Camden	37,006		37,0
SH9 — New Eng				
	Greater Cessnock	29,712		29,7
	Maitland	134,685	16,041	150,7
	Newcastle	42,170		42,1
		206,567	16,041	222,6
SH10 — Pacific	•			
	Lake Macquarie	58,896		58,8
	Total - State Highways	302,469	16,041	318,5
•				
(C) COUNTRY F	RURAL AREA	·		
(I) Freeways				
F3 — Sydney to	Newcastle Freeway			
	Gosford	929,227		929,2
	Total - Freeways	929,227		929,2
(ii) State Highwa	ana			
SH2 Hume Hi				
	Albury	50,451	_	50,4
	Goodradigbee	337,069	-	337,0
	Goulburn	60,827	22,089	82,9
	Gundagai	626,398	_	626,3
	Gunning	356,757		356,7
	Harden	181,885	_	181,8
-	Holbrook	176,579	-	176,5
	Hume	120,797	_	120,7
	Kyeamba	220,726	_	220,7
	Mittagong	318,540	_	318,
	Mulwaree	331,552	_	331,5
	Wingecarribee	254,434	_	254,4
	Wingecarribee			
	Wollondilly	374,382	_	374,3
	•			374,3 30,0

APPENDIX No. 9 — continued COMMONWEALTH AID ROADS FUND

Summary of Payments from Grants under the National Roads Act on Maintenance and Minor Improvement Works

	City, Municipal or	Work carri	ed out by	
Road No.	Shire Area	Department	Council	Total
(C) COUNTRY	RURAL AREA — continued			
(li) State Highw	rays — continued	\$	\$	S
SH3 – Federal	Highway			
	Gunning	84,928	-	84,928
	Mulwaree	46,261	-	46,261
	Yarrowiumia	41,869		41,869
		173,058		173,058
SH9 — New En	gland Highway		7 404	7.00
	Armidale	-	7,690	7,690
	Denman	80,833	_	80,833
	Dumaresq	84,275	-	84,275
	Gien innes	-	802	120.002
	Guyra	120,025	-	120,025
	Murrurundi	129,467	_	129,467
	Muswellbrook	42,693	6,971	49,664
	Nundle	37,865	_	37,869
	Parry	270,982	-	270,98
	Scone i	220,398	-	220,39
	Severn	195,530	-	195,53
	Singleton	291,007	_	291,00
	Tamarang	92,447	-	92,44
	Tamworth		15, 9 58	15,95
	Tenterfield	204,777	9,900	214,67
	Uralla	89,237		89,23
		1,859,536	41,321	1,900,85
SH10 - Pacific	c Highway			
	Wyong	284,989		284,98
SH15 - Barton	n Highway			
Orrio Barto.	Goodradigbee	92,152	_	92,15
	Yarrowlumia	23,799	-	23,79
		115,951		115,95
	Total - State Highways	5,873,990	63,410	5,937,40
				
SUMMARY		Department	Council	Total
		\$	\$	\$
Freeways		1,069,297	_	1,069,29
State Highway	/S	6,258,127	79,451	6,337,57
Ordinary Main		16,658	_	16,65
	dministration, allowances to councils, etc.	332,672	4,188	336,86
Sub-total		7,676,754	83,639	7.760,39
General admir		310,416	-	310,41
	HOLIAUOH			
Total		7,987,170	83,639	8,070,80

APPENDIX No. 9A COMMONWEALTH AID ROADS FUND

Summary of Payments from Grants under the National Roads Act on Maintenance and Minor Improvement Works on Export and Major Commercial Roads

Road No. Shire Area Department (A) COUNTRY URBAN AREA (I) Trunk and Ordinary Main Roads TR95 Wollongong 137,376 MR177 Wollongong 77,195 Total 214,571	Council	Total
(I) Trunk and Ordinary Main Roads TR95 Wollongong 137,376 MR177 Wollongong 77,195		
TR95 Wollongong 137,376 MR177 Wollongong 77,195		
MR177 Wollangong 77,195	\$	Ş
	_	137,376
Total 214,571	_	77,195
		214,571
(B) COUNTRY RURAL AREA		
(I) Trunk and Ordinary Main Roads		
TR95 Wollondilly 65,417		65,417
SUMMARY		
Trunk and Ordinary Main Roads 279,988	_	279,988
General administration 11,200	_	11,200
Total 291,188		291,188

APPENDIX No. 10 COUNTY OF CUMBERLAND MAIN ROADS FUND

	City, Municipal or	Work carr	ed out by	
Road No.	Shire Area	Department	Council	Total
FREEWAYS		s	s	s
F1 — Warringa	•	•	•	
	North Sydney	4,396	-	4,396
		4,396	_	4,396
F3 - North We	estern Freeway			
•	Drummoyne	34,295	_	34,295
	Gosford	2,037	-	2,037 1,762
	Hornsby Hunters Hill	1,762 141,907	_	141,907
	Sydney City Council	1,925	_	1,925
	Syundy Only Council	181,926		181,926
	_	101,920		101,920
F4 - Western	•	7,205		7,205
	Auburn	7,205 113,804	_	113,804
	Penrith	122,873	_	122,873
	Sydney City Council	32,595	_	32,595
		276,477		276,477
0		210,411		
F6 - Southern	n Freeway Rockdale	10,498	_	10,498
	Sutherland	41,226		41,226
	Countries of the second of the	51,724		51,724
				•
	Total — Freeways	514,523	11111	514,523
STATE HIGHY	MAYS			
SH1 - Princes				
	Kogarah	54,717	_	54,717
	Marrickville	16,579	-	16,579
	Rockdale	26,414	_	26,414
	South Sydney	-	9,706	9,706
	Sutherland	144,629	2,900	144,629 2,900
	Sydney	240,871	2,500	240,871
	wonlongong	483,210	12,606	495,816
SH2 — Hume	Highway	403,210	12,000	483,810
	Ashfield	16,922	-	16,922
	Bankstown	67,347	-	67,347
	Burwood	21,156	-	21,156
	Camden	30,604	-	30,604
	Fairfield	31,713 184,728	2,670	31,713 187,398
	Liverpool Strathfield	49,765	2,070	49,765
	Stiatiment	402,235	2,670	404,905
SH5 - Great	Western Highway		•	ووالمد المناس
	Ashfield	70,827	-	70,827
	Auburn	93,575	_	93,575
	Blacktown	116,352 510,378	-	116,352 510,378
	Blue Mountains Burwood	16,408	_	16,408
	Concord	16,408		16,408
	Holroyd	11,110	_	11,110
	Leichhardt	68,479	599	69,078
	Parramatta	25,591	_	25,591
	Penrith	144,728	_	144,728
	Strathfield	38,285	-	38,285
	Sydney	<u> </u>	1,750	1,750
		1,112,141	2,349	1,114,490

APPENDIX No. 10 — continued COUNTY OF CUMBERLAND MAIN ROADS FUND

Road No.	City, Municipal or Shire Area	Work carried out by Department Council	il Total
	YS - continued	Department Count	isi Total
SH10 — Pacific		\$ \$	\$
	Gostord	1,008	_ 1,008
	Hornsby	347,135	_ 347,135
	Ku-ring-gai		79,867
	Lane Cove	13,732	_ 13,732
	North Sydney	16,021	16,021 27,469
	Willoughby		
	,	485,468 24	485,221
SH13	Bankstown	8,150	8,150
	Baukham Hills	32,336	_ 32,330
	Fairfield	8,150	- 8,150
	Holroyd	1,111	_ 1,11
	Hornsby	61,991	– 61,99°
	Parramatta	69,037	
		180,775	180,779
	Total — State Highways	2,663,829 17,38	2,681,21
	•		= =====================================
ORDINARY MA	IN ROADS	_ 1,09	96 1,09
Auburn .		51,344 22,00	· · · · · · · · · · · · · · · · · ·
Bankstown		689,503	_ 689,50
Baulkham Hills		217,847 111,51	15 329,36
Blacktown		337,575	_ 337,57
Blue Mountains		214,642 63,85	
Botany		186,177	_ 186,17
Burwood		2,598 3,76	
Camden	<u>.</u>	_ 398,60	
Campbelltown Canterbury		276,348 117,13 345,904	31 393,47 — 345,90
Colo		348,931 87,03	•
Concord		– 41,80	
Drummoyne		187,718 6,48	· ·
Fairfield		647,425	- 647,42
Hornsby		34,58 7 173,56	00 208,08
Hunters Hill		118,916	- 118,91
Hurstville		_ 98,00	·
Kogarah		3,098 18,19	
Ku-ring-gai		131,026 11,0	
Lane Cove Leichhardt		56,172 252,270 4,90	56,17 67 257,23
Liverpool		259,190 138,0	
Manly		59,617 20,0	· ·
Marrickville		5,959 6,6	•
Mosman		49,590 10,2	
North Sydney		– 1,3	-
Parramatta		318,375	– 318,37
Penrith		274,250 122,6	•
Randwick		136,793 14,10	
Rockdale		236,949 116,2	•
Ryde South Sydney		284,162 9,0 6,933 30,4	•
Strathfield		2,599 22,2	
Sutherland		302,680 60,3	
Sydney		419,174 29,8	
Warringah		573,729 133,4	
Waverley		- 32,1	· ·
Willoughby		58,171 25,0	
Windsor		346,198	346,19
Wollondilly	and the control of th	_ 252,0	•
Wollongong		268,785	<u> </u>
Woollahra		10,513 14,2	
	ry Main Roads	7,715,748 2,197,3	36 9,913,08

APPENDIX No. 10 — continued COUNTY OF CUMBERLAND MAIN ROADS FUND

City, Municipal or																		Work carrie	ed out by	
Shire Area														-				Department	Council	Total
ECONDARY RO	ADS																			
																		\$	\$	\$
shfield																	**		37,404	37,404
uburn																		-	12,650	12,650
ankstown																		_	45,370	45,370
aulkham Hills										. •								_	8,563	8,563
lacktown																		-	45,000	45,000
Slue Mountains																		-	11,296	11,296
Botany																		-	22,587	22,587
Burwood													• •				**	_	600	600
anterbury							• •						••	• •				-	33,689	33,689
Concord				• •			• •			• •		• •	• •				**	-	3,300	3,300
Drummoyne				• •	••		• •			• •	• •		• •	• •	• •	• •		-	4,471	4,471
airfield				• •											• •			_	66,730	66,730
lolroyd				• •			• •				• •			• •	• •		• •	-	8,136	8,136
lornsby												- 1					• •	_	45,200	45,200
lunters Hill						• •			• •		• •							5,561	8,135	13,696
lurstville													٠.					-	25,804	25,804
(u-ring-gai																		-	7,520	7,520
ane Cove																		_	8,950	8,950
_eichhardt							•									• •		-	58,359	58,359
_iverpool													• •		•			-	19,973	19,973
Maniy											••			• •			-	_	7,220	7,220
Marrickville								• •	••		• •	• •	• •	• •	• •			633	19,900	20,533
Mosman			••						• •		•	• •						-	854	854
North Sydney		• •	• •	• •												• •		-	20,640	20,640
Parramatta													•		÷	• •		-	19,800	19,800
Penrith		• •			• •		- •			•					• •	••	**	, -	14,000	14,000
Randwick			. •		• •					• • •			• •	• •	• •		• •	-	23,457	23,457
Rockdale			••		••		••			• •			••	• •	* -		- *	-	42,313	42,313
Ryde			•					• •	• • •	• •				• •		••	• •	_	24,250	24,250
South Sydney	• • •		• •				• •	٠	**			• •		• •			* *	-	16,738 8,580	16,738 8,580
Strathfield			••	. •				••	• •	• •	٠.	• •	• •					72 404	86.484	159,968
Sutherland	• •	• •			•	• • •				• •	• • •	• •	• •					73,484 2,071	17,121	19,19
Willoughby		• •					••	• •	٠.		• •					• •		2,071	1,650	1,650
Windsor	• •	•		• •							• •	• •	• •	* -				_	8,523	8,52
Woollahra	* *	• •		•						٠										
Total — Seconda	ry R	oad	18								••	* :			••		**	81,749	785,267	867,01(
TOURIST ROADS	;																		4 0	
Baulkham Hills												**			•		•	-	33,500	33,50
Blue Mountains			٠.					- •		• •		• •						-	9,374	9,37
Sutherland																		19,932	-	19,93
Warringah														• •		٠.	• •	10,959		10,95
Total — Tourist R	bec	•				**		••	,									30,891	42,874	73,76
SUMMARY																				
																		514,523	_	514,52
State Highways																٠.		2,663,829	17,385	2,681,21
Ordinary Main Ro	ads	i																7,715,748	2,197,336	9,913,08
Secondary Road																		81,749	785,267	867,01
Tourist Roads																		30,891	42,874	73,76
Allowances to co	unc	ils,	mis	cel	land	eou:	s, e	tc.										707,807	392,268*	315,53
Engineering Adm												:-						671,179	168,312	839,49
										ent								12,385,726	2,818,906	15,204,63

Credit

APPENDIX No. 11 COUNTRY MAIN ROADS FUND

	City, Municipal or								Work care	ied out by	
Road No.	Shire Area								Department	Council	Total
I) FREEWAYS											_
3 - Sydney to N	ewcastle Freeway								\$	\$	\$
	Hornsby						-	**	1,968		1,96
6 — Southern Fr	•								200 720		200 70
	Wollongong			•					360,736		360,73
8 - Wollongong	reeway Wollongong								29,323	_	29,32
	Total — Freeways			•					392,027		392,02
	Total — Tidoways				••				302,027		
II) STATE HIGHY											
H1 - Princes Hi											
	Bega .								26,246	_	26,24
	Eurobodalia Imiay							*-	373,391	_	373,39
	Kiama	•		-					548,196 343,445	-	548,19 343,44
	Mumbulia								223, 6 07	.=	223,60
	Shellharbour		•						65,2 99	· <u> </u>	65,29
	Shoalhaven								672,877	-	672,87
	Wollongong								194,672	5,500	200,17
									2,447,733	5,500	2,453,23
H2 — Hume Hig	hway										
	Goulburn								. -	5,500*	5,50
	Mittagong									84	8
										5,416*	5,41
H4 — Snowy Mo	ountains Highway										
	Bega		••						4,596	-	4,59
	Cooma							**	20.450	1,371	1,37
	Gundagai								32,453 40,3 9 3	-	32,45
	Imlay Monaro								20,831	<u>-</u>	40,39 20,83
	Mumbulia								175,188	_	175,18
	Snowy River								312,174	· -	312,17
	Tumut								358,838	_	358,83
	. •							•	944,473	1,371	945,84
H5 – Great Wet	stern Highway								· 		
	Bathurst								35,529	_	35,52
	Lithgow								186,104		186,10
	Turon								112,837	_	112,83
									334,470		334,47
H6 - Mid Weste											
	Abercrombie								206,272	_	206,27
	Bathurst								2,897	_	2,89
	Bland								218,704	_	218,70
	Carrathool					-			224,792	-	224,79
	Cowra									13,953	13,95
	Hay Lyndhurst								98,032	2,235	100,26
	Waugoola							•	467,266 19,142	 88,144	467,26
	Weddin									88,144 109,896	107,28
	· rousii.								4.007.405		109,89
									1,237,105	214,228	1,451,33

Credit

	City, Municipal or	Work carrie		
Road No.	Shire Area	Department	Council	Total
(II) STATE HIGHY	WAYS — continued	•	s	\$
SH7 - Mitchell H	ighway	\$	•	Ð
•	Abercrombie	128,070	_	128,070
	Bogan	154,433	4,148	158,581
	Bourke	387,140	_	387,140
	Canobolas	223,581	· _	223,581
	Dubbo	7,850	_	7,850
	Molong	214,235	_	214,235
	Narromine	867	_	867
	Orange		15,291	15,291
	Talbragar	269,966		269,966
	Timbrebongie	128,294	_	128,294
	144	88,868	_	88,868
		180,133	<u>_</u>	180,133
	Wellington	'		
		1,783,437	19,439	1,802,876
SH8 — Barrier Hi	ghway .			
	Bogan	161,872	_	161,872
	Broken Hill	-	36,220	36,220
	Cobar	186,573	522	187,095
	Central Darling	338,073	188	338,261
	Murray Darling Division	338,497		338,497
	, and the second	1,025,015	36,930	1,061,945
CHO Now Engl	and Highway	1,023,013	30,830	1,001,343
SH9 — New Engl	Armidale	-	7,880	7,880
		-	7,880	7,880
SH10 - Pacific H	łighway			
	Ballina	195,323	1,063	196,386
	Bellingen	113,632	_	113,632
	Byron	205,261	_	205,261
	Coffs Harbour	205,613	6,360	211,973
	Gosford	307,268	4,500	311,768
			,	
	Grafton	113,185	-	113,189
	Great Lakes	482,522	_	482,522
	Hastings	810,925	-	810,92
	Kempsey	264,025	4,809	268,834
	Lake Macquarie	194,269	-	194,269
	Maclean	538,868	-	538,868
	Manning	500,595	_	500,59
	Nambucca	377,757	_	377,757
	Newcastle	49,992	32,783	82,779
	Port Stephens	204,929	_	204,929
	Richmond River	357,890	_	357,890
	Taree	19,575	15,533	35,10
	Tweed	313,512	10,477	323,98
	Ulmarra	699,185	-	699,18
	Wyong	16,271	_	16,27
	tryong and a second	5,970,597	75.525	6,046,12
SH11 Oxley Hi	ighway	-1		-,,
C. T. Chicy III	Coonabarabran	257,229	_	257,229
	Gilgandra	262,448	-	262,44
	Gunnedah		11,343	11,34
		209,744	- 1,040	209,74
		2V7,/47	134,879	134,87
	Liverpool Plains	20 762	·	
	Parry	32,763	56,354	89,11
	Port Macquarie	-	826	82
	Tamworth		19,392	19,39
	Walcha	186,569	_	186,56
	Warren	121,216	• -	121,21

	City, Municipal or		Work car	rled out by	
Road No.	Shire Area		Department	Council	Total
(II) STATE HIC	GHWAYS - continued			,	
OLI40 Od	ta I Bakulan		\$	\$	\$
SH12 — Gwydi				23,727	23,727
	Boolooroo Boomi		246,204	23,727	246,204
	Glen Innes		240,204	26,443	26,443
	Grafton		5,666	20,440	5,660
	Invereli		3,094	15,451	18,54
	Macintyre	• •	-	81,606	81,600
	Moree	•	_	10,580	10,58
	Nymboida		225,225	_	225,22
	Severn		138,813	30,932	169,74
	Walgett		7,285	37,830	45,11
	Yallaroi		1,632	64,730	66,36
			627,919	291,299	919,21
			027,318	291,299	919,21
SH14 — Sturt I	Highway				
	Balranaid		157,866	987	158,85
	Hay		313,749		313,74
	Kyeamba		52,911	;	52,91
	Mitchell		102,823	_	102,82
	Murrumbidgee		231,663	_	231,66
	Narrandera		141,144	_	141,14
	Wagga Wagga		1,368	14,537	15,90
	Wakooi		100,580	· 	100,58
	Wentworth		284,003	_	284,00
			1,386,107	15,524	1,401,63
SH16 — Bruxn	nar Highway		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Shio - Biuki	Ashford		250 244	24 246	204 504
	Ballina		350,244	34,346 34,008	384,590
	Boolooroo	•	22.404	12,397	34,00
	Casino	•	23,484		35,88 ⁻ 14,12
	Kyogle	•	350,567	14,126	350,56
	Lismore	•	330,307	89,495	89,49
	Richmond River	•	91,764	9,300	101,06
	Tenterfield		406,183	46,847	453,03
	Yallaroi		400,100	11,276	11,27
	i diley or	•	4 000 040		
			1,222,242	251,795	1,474,03
SH17 — Newe					
	Berrigan	· ·	41,389	_	41,38
	Bland		47,764	-	47,76
	Boolooroo		322,849		322,84
	Coolamon		75,323		75,32
	Coonabarabran		82,609	_	82,60
	Dubbo	•	634	_	63
	Forbes	· · · · · · · · · · · · · · · · · · ·	_	9,089	9,08
	Gilgandra		73,577	-	73,57
	Goobang		264,597	-	264,59
	Jemalong		-	55,370	55,37
	Jerilderie		329,401	40.400	329,40
	Moree	•	-	12,420	12,42
	Namoi Narrabri	•	241,137	20 404	241,13
	Narrabri		.6,760	38,464	45,22
	Narrandera		202,520		202,52
	Parkes Tolbrogor		6,060	_	6,06
	Talbragar	•	95,302	-	95,30
	Timbrebongie		194,284		194,28
	Urana Weddin		126,083	-	126,08
	***************************************		16,675		16,67
			2,126,964	115,343	2,242,30

Road No.	City, Municipal or Shire Area	Work carr Department	led out by Council	Total
(II) STATE HIGH	IWAYS — continued	\$	\$	s
SH18 — Castlere	aanh Hinhway			
	Brewarrina	4,997	_	4,997
	Coonamble	146,744	_	146,744
	Gilgandra	94,027		94,027
	Walgett	407,421	218	407,639
		653,189	216	653,407
SH19 — Monaro	Highway Bibbenluke	87,465	76,003	163,46
	Bombala	_	3,484	3,48
	Cooma	-	12,792	12,79
	Monaro	416,038	-	416,03
	Yarrowlumia	54,107	-	54,10
		557,610	92,279	649,88
SH20 — Riverina	a Highway Albury	36,701	-	36,70
	Berrigan*	122,819	_	122,81
	Conargo	89,783	_	89,78
	Corowa	163,788	-	163,78
	Deniliquin	. -	3,286	3,28
	Hume ,	155,898	-	155,89
		568,989	3,286	572,27
SH21 — Cobb H	fighway Carrathool	31,331	_	31,33
	Central Darling	195,832	3,593	199,42
	Deniliquin	_	20,330	20,33
	Hay	207,344	564	207,90
	Murray	139,725	-	139,72
	Windouran	165,407	24,487	165,40 764,12
SH22 — Silver (Cit. Hishway	739,639	24,467	704,12
Shzz - Silver	Broken Hill		26,000	26,00
	Murray Darling Division	785,521		785,52
	Wentworth	393,021	7,787	400,80
		1,178,542	33,787	1,212,3
SH23	Newcastie	_	10,400	10,4
	New Casile	· · · · · · · · · · · · · · · · · · ·	10,400	10.4
		· · · · · · · · · · · · · · · · · · ·	10,400	10,40
SH24 — Mount l	Lindsay Highway			
	Tenterfield	280,935	1,011	281,94
		280,935	1,011	281,94
SH25 — Illawarr	ra Highway Shellharbour	128,477	_	128.47
	Wingecarribee	243,306		243,30
	**************************************	371,783		371,78
			4.447.000	41 - 4
	Total State Highways	24,526,718	1,417,680	25,944,39
(III) TRUNK AN Abercrombie	D ORDINARY MAIN ROADS	_	92,905	92,90
Albury		-	8,341	8,34
Armidale		-	18,843	18,84
Ashford	and the second s	12,712	155,918	168,63
Ballina			38,179	38,17
		21,113	95,197	116,31
		A AFA	89 885	84 4
Bairanaid Barraba Bathurst		2,050 23,907	82,095 6,950	84,14 30,8

rire Area)r																		Work carr Department	Council	Tota
i) TRUNK ANI	0 0	ROI	NAR	Y N	AII	N FR	OA	DS	_ c	nn	inu	ed									·· ···
									•			-							\$	\$	\$
ega Silingon																			_	14,220	14,22
ellingen .		•															•			314,376	314,37
errigan																			61,715	60,000	121,71
bbenluke															• •			•	2,467	82,578	85,04
ngara																			3,453	101,478	104,93
and																				124,413	124,41
axland																			-	6 8,177	68,17
ogan																			_	188,694	188,69
ombala																			-	2,121	2,12
oolooroo																				87,383	87,38
oomi																			33,175	594,403	627,5
porowa																			_	52,066	52,00
oree																		•	_	163,332	163,3
ourke																			100,091	533,967	634.0
owral													**						160,001	• • •	
																		٠	_	45,840	45,84
rewarrina															• •				2,214	383,570	385,7
roken Hill											• •								-	34,991	34,9
urrangong																			_	46,597	46,5
yron																			-	86,750	86,7
amden																			· <u>-</u>	10,719	10,7
anobolas																			_	74,311	74,3
arrathool																			29,563	191,213	220,7
asino																			-	22,066	22,0
entral Darling	•																		3,559	505,850	509,4
obar		•									•	•							,	487,213	
		•								•			٠.			•			4 000	•	487,2
offs Harbour												•							4,232	196,420	200,6
olo																			629,294	268,663	897,9
onargo																			_	76,763	76,7
ondobolin																			14,213	41,203	55,4
oolah																			_	159,738	159,7
oolamon																			_	90,336	90,3
oonabarabrar	1																			193,215	193,2
oonamble																				257,134	257,1
ootamundra																			_	128,889	128,8
opmanhurst																			46,455	165,282	211,7
orowa																			•	•	
											•								25,053	61,984	87,0
owra												•					•			13,102	13,1
rookwell			٠						• •						,				_	153,444	153,4
ulcairn																				77,658	77,6
eniliquin																				11,440	11,4
enman														,					17,638	143,429	161,0
ubbo																				6,179	8,1
umaresq																			_	150,438	150,4
ungog																			1,849	113,754	115,6
urobodalla					·					- 1									-	72,400	72,4
orbes																	:		_	4,043	4,0
										•						• •		• •	~		
ilgandra					• •			•		-	* *		٠						_	68,410	68,4
len innes									• •			••						•	-	3,087	3,0
loucester																			_	43,626	43,0
oobang		• •					• •													191,442	191,4
oodradigbee																			76,620	179,128	255,
osford																			. –	647,570	647,
oulburn																			47,806	8,875	56,
rafton																			16,486	32,328	48,
reat Lakes																			16,080	245,339	261,
reater Cessni	ock																		12,116	317,605	329,
undagai .	, .				•						• •	••					•		-	36,442	36,4
unnedah																			_		•
					• •			•				•				•				6,728	6,1
unning												-							1,572	123,653	125,
uyra																			-	101,433	101,
arden																			-	108,856	108,
astings																			333	100,007	100,
ay																			_	104,097	104,0
olbrook	•																•			106,466	106,4
ornsby																			-	11,000	11,0
												• •							116,499	11,000	11,

City, Municipal or Snire Area	Work carried out by Department Counci	I Total
III) TRUNK AND ORDINARY MAIN ROADS — continued	\$ \$	\$ 139,34
lliabo	– 139,349	
Imlay	- 123,731 - 14,931	•
Inverell	707 140,32	•
Jemalong	- 118,780	
Jerilderie	- 116,760 - 24.091	
Junee	206,954 131,03	•
Kiama	200,954 131,03. 100,110	•
Kveamba	– 72,63:	•
Kyogle	74.092 540.020	-
Lachlan	4,307 365,377	•
Lake Macquarie	3,162 324,632	•
Leeton	- 89,643	•
Lismore	_ 384,309	•
Lithgow	340,597 13,599	•
Liverpool Plains	- 126,93	•
Lockhart	- 73,494	·
Lyndhurst	- 46,87	•
Macintyre	- 103,020	·
Maclean	58,436 115,19	•
Maitland	64,479 99,78	•
Manilla	46,726 77,60	· · · · · · · · · · · · · · · · · · ·
Manning	- 133,85	•
Merriwa	- 205,03	·
Mitchell	- 79,68	•
Mittagong	– 120,56	5 120,569
Molong	- 61,88	61,889
Monaro	- 2,79	2,792
Moree	- 5,21	5,219
Mudgee	57,330 248,78	306,119
Mullumbimby	- 5,39	5,399
Mulwaree	. 109 153,710	153,819
Mumbulla	11,666 79,03	90,690
Murray	- 20,000	20,00
Murray Darling Division	271,497 -	- 271,497
Murrumbidgee	14,509 22,02	3 36,532
Murrurundi	– 43,09	
Muswellbrook	21,477 22	
Nambucca	- 96,79	
Namoi	- 420,94	
Narrabri	– 5,87	
Narraburra	- 128,26	
Narrandera	- 89,13	· ·
Narromine	_ 5,10	
Newcastle	6,168 74,40	
Nundle	- 60,17	
Nymboida	79,141 106,28	• •
Oberon	142,968 133,19	
Orange	- 10,38	• • •
Parkes	– 9,58	•
Parry	- 158,84	,
Patrick Plains	- 23,14	· ·
Port Macquarie	- 9,59	• •
Port Stephens	- 138,75	•
Queanbeyan	60,61	
Quirindi	12,98 317,776 122,83	•
Richmond River	•	•
Rylstone	- 182,80 6,187 63,94	· ·
Scone		
Severn	- 52,59	
Shellharbour	- 43,12	
Shoalhaven	238,612 93,84	
Singleton	284,616 151,91	
Snowy River	367,067 107,37	•
Talbragar	- 34,95	• • •
Tallaganda	4,976 206,27	6 211,25

Shire Area	lor																		Department	ried out by , Council	Total
																_	-		Osparunern	Council	10181
II) TRUNK AI	ND O	RD	INA	\RY	M	AIN	RC	AD)S -	- CC	ntir	nue	đ								
amarang																			_	86,088	86,088
amworth																			_	14,196	14,190
aree																			_	3,790	3,790
emora																			_	17,932	17,93
enterfield																		·	_	63,558	63,55
imbrebongie				•												•			48,888	81,482	130,37
umbarumba								**											10,257	130,695	140,95
																				127,360	140,99
umut																			13,636	•	-
uron																			-	49,021	49,02
weed																			-	144,951	144,95
lmarra																			_	60,380	60,38
ralla																			8,343	102,621	110,96
rana																			-	96,544	96,54
/ade																			_	165,585	165,58
agga Wagga	ı																		5,222	18,536	23,75
/akool			•																75,578	294,042	369,62
/alcha																			-	10,822	10.82
																			73,485	645,181	718,66
algett																			•	152,700	152,70
Varren													• • •						_		•
Vaugoola																			-	65,692	65,69
Veddin												,							_	33,000	33,00
Vellington																			_	115,862	115,86
Ventworth																			204	202,836	203,04
Vindouran																			_	67,980	67,98
/ingham										.,									-	3,300	3,30
Vingecarribee	•																		. –	147,891	147,89
Vollondilly																			385,683	330,133	715,81
Vollongong					٠.														162,785	134,067	296,85
						•			-		•								104,700	192,312	192,31
Vyong																			-	·	
allaroi										• •			,			•			_	92,534	92,53
'arrowlumia																			_	194,597	194,59
888																			-	2,884	2,88
oung .																			_	8,535	8,53
otal Trunk an	d Or	din	BIV	Ms	in I	Ros	ads												4,730,105	20,648,538	25,378,64
			,	••••									•••			••				20,040,000	23,070,04
IV) TOURIST	HUA	UŞ																			
bercrombie				• •															-	51	5
lallina																				2,791	2,79
offs Harbour																			-	1,269	1,26
Coonamble																				42	4
Coonabarabra	ın																		_	5,977	5,97
)umaresa																			_	4,726	4,72
urobodalla				•											,.			•	_	629*	62
Soodradigbee			•					• • •							• •				_		
sostord							•		• •		•		• •						_	2,093	2,09
Breat Lakes						•			•	••			••		• •				_	2,325	2,32
									• •	•			• •		• •	**		• •	-	8,171	8,17
iuyra Instince				• •			• •				•		٠.		• •				_	677*	67
lastings												,	.,			• •			-	14,898	14,89
mlay																		* *	_	4,273	4,27
Cempsey													٠.						_	6,833	6,83
faclean												,							_	762	76
lambucca																			-	5,015	5,01
ort Macquari	e																		-	9,854	9,8
cone								·											_	1,250	1,25
nowy River													•	•	•				1,813	10,627	12,44
amarang		•		•			• •	•		• •								•	1,013	•	•
_	•	٠	• •	•		• •				- *										575	57
to company						• •						٠						••	_	22,415	22,41
																			-	1,786	1,78
Ilmarra																				10,907	10,90
llmarra Vade																			_	410	41
Jimarra Vade	ı																			760	76
Jimarra Nade Nagga Wagga																					/ E
Jimarra Nade Vagga Wagga Vingecarribee																			_		
Jimarra Nade Nagga Wagga Vingecarribee Notlondilly																			_	550	
Fweed Jimarra Nade Nagga Wagga Ningecarribee Nollondilly Nollongong Fotal — Yourla	•	4																			118,86

APPENDIX No. 11 — continued COUNTRY MAIN ROADS FUND

Summary of Payments from Department's Funds on Maintenance and Minor Improvement Works

City, Municipal or	Work car	ried out by	
Shire Area	Department	Council	Total
SUMMARY	\$	\$	\$
Freeways	392,027	_	392,027
State Highways	24,526,718	1,417,680	25,944,398
Trunk and Ordinary Main Roads	4,730,105	20,648,538	25,378, 6 43
Tourist Roads	1,813	117,052	118,865
Other Roads	186	24,130	24,316
Allowances to councils, miscellaneous, etc.	1,252,363*	2,941,838*	4,194,201*
Engineering services	268,695	182,294	450,989
Total as shown in receipts and payments statement — Appendix No. 1(C)(i)	28,667,181	19,447,856	48,115,037

APPENDIX No. 12 TRAFFIC FACILITIES FUND m Grants under the National Roads Act for Construction and Mainte

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/77
I) FREEWAYS					\$
Sydney to Newcasi	ie Freewa	a y			
Gosford	F3	National Highway	Roadmarking maintenance		
Hornsby		Planning Length 211A	by direct control	Department	53,140
tornsby	F3		Signals maintenance	= 	
Gosford			by direct control	11	140
			.,		53,28
outh Western Fre	-				
Camden	F5 &	National Highway	Roadmarking maintenance	<u>.</u>	
***	178	Planning Length 201A	by direct control	Department	4
Mittagong	F5	Divided two lane carriageway,	Signposting and roadmarking		
		Aylmerton to Yanderra	by direct control	••	84,59
Nollondilly	F5	National Highway	Signposting maintenance		
		Planning Length 201A	by direct control	11	12,88
					97,51
			-	otal — Freeways	150,79
			''	otai — rr oe ways	130,73
(ii) STATE HIGHW	AYS				
Hume Highway Goodradigbee	2	Yass to Bowning, 5.6 km to 12.1 km	Signposting and roadmarking		
3000. aa.g200	_	south of Yass	by direct control	Department	2,03
Goodradigbee					
Gunning	2	National Highway	Roadmarking maintenance		
Mulwaree		Planning Length 202A	by direct control	**	21,24
Goodradigbee		3 3	,	••	
Gundagai					
Harden	2	National Highway Planning Length 203A			47,84
Goodradigbee	2	Bridge over Connors Creek,	Signposting and roadmarking	11	47,04
Goodiadigues	••	35.2 km south of Yass	• • •		
Goulburn City	2	82.1 km to 85.6 km south of Mittagong	by direct control	***	•
Godiourn City	2	- dual carriageway			
	^	* *	11	11	2,39
11	2	Intersection of Auburn Stand			
		Clinton St, Goulburn	Signals - Site No. 1022	***	19,17
**	2	National Highway Planning Length 202A	Signals maintenance by contract	11	4,0
Goulburn City	2	National Highway	Signposting maintenance		
Mulwaree		Planning Length 201B	by direct control	**	2,13
Gundagai	2	Deviation around Gundagai			
		and approaches to			
		Murrumbidgee River Bridge	Signposting and linemarking	**	23,9
Gunning	2	National Highway	Signposting maintenance		
		Planning Length 202A	by direct control	11	9
Holbrook		-			
Hume	2	National Highway	Roadmarking maintenance		
Kyeamba		Planning Length 204A	by direct control	11	67,3
Kyeamba			•	**	
Holbrook	2	National Highway	Signposting maintenance		
Hume		Planning Length 204A	by direct control		2,9
Liverpool	2 &		,	11	_,0
- F	177	National Highway Planning Length 201A			7,3
Mittagong	2	National Highway Planning Length 201A	•	**	8,9:
	2	National Highway Planning Length 201B	*1	11	2,0
 Mittagono	-	reasonating may rialining Longil 2016	••	11	۷,0
Mittagong	2	National Highway	Poodmarking — sints =		
Mulwaree	2	National Highway	Roadmarking maintenance		
\Alim		Planning Length 201B	by direct control	11	42,0
Wingecarribee		N		•	
Mittagong	_				4,2
Mittagong Wollondilly	2	National Highway Planning Length 201A	**	**	
Mittagong Wollondilly		National Highway Planning Length 201 A	,,	••	·
Mittagong Wollondilly	2	National Highway Planning Length 201 A National Highway	Signposting maintenance	"	ŕ
Mittagong Wollondilly Yass				n D	35,0

APPENDIX No. 12 — continued
TRAFFIC FACILITIES FUND

(A) Summary of Payments from Grants under the National Roads Act for Construction and Maintenance

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(II) STATE HIGHWA	YS — co	ontinued			S
Federal Highway					
Gunning					
Mulwaree	3	National Highway	Roadmarking maintenance		
Yarrowlumla	·	Planning Length 214A	by direct control	Department	8,755
Tarrowiuma	2	Flamming Length 214A	· •	Борантон	5,, 55
*1	3	**	Signposting maintenance		952
	_		by direct control		332
Mulwaree	3	Second carriageway, 14.3 km to	Signposting and roadmarking		
		22.2 km south of Goulburn	by direct control	**	389
			` -		10,096
New England Highw	av				
Cockburn	9	National Highway	Signposting maintenance		
**	J	Planning Length 237B	by direct control	Department	3,116
Tamworth	^	Flamming Length 2576	•	•	318
"	9	11	Signals maintenance by direct control	· ·	
11	9	11	21	**	9,552
Cockburn	9	*1	Signals maintenance		
			by County Councils	Council	2,092
Denman					•
	0	National Highway Planning Length 237A	Signals maintenance by direct control	Denartment	54
Singleton	9	National Highway Planning Length 237A	•	Department	34
	9	D	Signposting maintenance		
			by direct control	11	5,662
Denman	9	38.9 km to 45.8 km north of Singleton	Signposting and roadmarking	11	331
Dumaresq	9	National Highway	Roadmarking maintenance		
Uralla	•	Planning Length 237B	by direct control	•••	38,759
	^	• •	Signposting maintenance	••	00,000
Greater Cessnock	9	National Highway	• •		2 200
Singleton Guyra		Planning Length 236A	by direct control	**	3,328
Severn	_	M. D. M. M. Discolation of Co.			7 504
Glen Innes	9	National Highway Planning Length 237B		**	7,594
Guyra	9	1)	Roadmarking maintenance		
Severn			by direct control	***	11,251
Muswellbrook	9	National Highway	Signposting and roadmarking		
	-	Planning Length Part 237A	by Council	Council	45
Newcastle	9&	, in the state of	-,		
		Makingal Highway Diagring Langth 226A	Signale maintenance by direct control	Dopartment	10,878
Maitland	10	National Highway Planning Length 236A	Signals maintenance by direct control	Department	10,676
**	9 &	11	Signposting maintenance		
	10		by direct control	11	11,019
Scone					
Murrurundi					
Tamarang	9	National Highway Planning Length 237A		11	1,741
i ailiai aily		(4ational riighway rialilling congarzor)	Signals maintanance by direct control	.,	685
	9		Signals maintenance by direct control	1,	993
Severn	9	National Highway	Signposting maintenance		
Glen Innes		Planning Length 237C	by direct control	**	10,726
Severn	9	11	Roadmarking, new marking and		
			remarking by direct control	**	13,064
Cincloton	9	National Highway	Roadmarking maintenance		•
Singleton	J	• .	-		2,518
Denman	_	Planning Length 237A	by direct control	**	
Singleton	9	National Highway Planning Length 236A		**	3,924
Singleton to					
Tamworth	9	National Highway Planning Length 237A	***	**	13,986
Singleton	9	National Highway Planning Length 236A	,,	**	9,635
-	9	Coal entrance, 24.98 km west of Maitland	Provision of passing lane	• • • • • • • • • • • • • • • • • • • •	1,570
Tamusanth	9		Signposting and roadmarking	••	,,,,
Tamworth	9	National Highway		0	
		Planning Length 237B	by Council	Council	85
Tenterfield	9	National Highway Planning Length 237C		**	97
**	9	3.2 km to 15.3 km	Signposting and roadmarking		
		south of Tenterfield	by direct control	Department	4,579
	9	National Highway	Roadmarking maintenance		.,
*1	J	· · · · · · · · · · · · · · · · · · ·	•		40
		Planning Length 237C	by direct control	**	16
Uralla					
Uralla Dumaresq					
Dumaresq	9	National Highway Planning Length 237B	Signals maintenance by direct control	,,,	77
Dumaresq Armidale	9	National Highway Planning Length 237B	Signals maintenance by direct control Signposting maintenance	••	77
Dumaresq	9 9	National Highway Planning Length 237B	Signposting maintenance		
Dumaresq Armidale			-	••	77 11,183 177,885

(A) Summary of Payments from Grants under the National Roads Act for Construction and Maintenance

	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/77
(II) STATE HIGHWA	YS — co	ntinued			\$
Pacific Highway					
Hornsby	10	National Highway	Roadmarking maintenance		
		Planning Length 211A	by direct control	Department	2,35
Hornsby	10		Signposting maintenance		
			by direct control	***	3,77
**	10	**	Signals maintenance by direct conti	rol ,,	7
Lake Macquarie					
Wyong	10	National Highway Planning Length 212A	*1	**	6,66
••	10	National Highway	Signposting maintenance		
		Planning Length 211A	by direct control .	H	6,74
••	10	National Highway Planning Length 212A	11	11	36,20
Newcastle	10	Junction, SH10 and SH9 at Hexham,			
		16.4 km north of Newcastle	Widening to extend left turn lane	*1	1
Wyong	10	National Highway Planning Length 212A	Priority roads signposting	· ·	9,04
.,	10	Junction with Kanangra Dr,			•
		125.54 km north of Sydney	Widening of pavement	*1	16,68
					81,56
Barton Highway					
Goodradigbee	15	National Highway	Roadmarking maintenance		
Yarrowlumla		Planning Length 215A	by direct control	Department	4,80
**	15	.,	Signposting maintenance		•
	_		by direct control	.,	1,48
Goodradigbee	15	4.8 km to 40.0 km	Signposting and roadmarking	.,,	,
	-	south of Yass	by direct control	11	9
			-,	***	
					6,38
Canan Washington No. 1					
State Highway No. 2	26	National Highway	Boodmarking maintanance		
Gosford	20	National Highway	Roadmarking maintenance	Donartmant	E 01
Wyong	00	Planning Length 211A	by direct control	Department	5,01
**	26	**	Signposting maintenance	•	4 40
			by direct control	16	4,10
		-			9,12
			Total —	State Highways	578,94
				TOTAL(1)	700.73
				TOTAL	729,73
(1) Note: Expenditur	50 00 00	tional roads was financed as follows —			
·					
Grant	s under l	National Roads Act, 1974 — Schedule 1 — Ce		125,612	
		— Schedule 2 — M	aintenance	529,191	654,80
State	funds				74,93
					729 72
					729,7
	_				729,73
	Paymer	ots from Grants under the Roads Grants A	ct for Minor Traffic Engineering and	i Road Safety Imp	
(I) FREEWAYS	Paymer	ts from Grants under the Roads Grants A	ct for Minor Traffic Engineering and	I Road Safety Imp	
(I) FREEWAYS	Paymer	its from Grants under the Roads Grants A	ct for Minor Traffic Engineering and	i Road Safety Imp	
(I) FREEWAYS Western Freeway	·		ct for Minor Traffic Engineering and	i Road Safety Imp	rovements
(I) FREEWAYS Western Freeway	Paymer	ots from Grants under the Roads Grants A Prospect to Penrith	ct for Minor Traffic Engineering and Emergency telephones	i Road Safety Impl Department	
(I) FREEWAYS Western Freeway Blacktown	·		Emergency telephones	, ,	ovements 7,60
(I) FREEWAYS Western Freeway Blacktown	·		Emergency telephones	Department	ovements 7,60
(I) FREEWAYS Western Freeway Blacktown Penrith	F4		Emergency telephones	Department	ovements 7,60
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA	F4		Emergency telephones	Department	ovements
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA Princes Highway	F4 1 YS	Prospect to Penrith .	Emergency telephones	Department viai — Freeways	7,60 7,60
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA Princes Highway Eurobodalia	F4		Emergency telephones	Department	7,60 7,60
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA Princes Highway Eurobodalia Eurobodalia	F4 AYS	Prospect to Penrith Intersection with Wharf St, Batemans Bay	Emergency telephones To	Department viai — Freeways	7,60 7,60
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA Princes Highway Eurobodalia	F4 AYS 1	Prospect to Penrith Intersection with Wharf St, Batemans Bay Narooma to Cobargo	Emergency telephones	Department viai — Freeways	7,60 7,60
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA Princes Highway Eurobodalia Eurobodalia Mumbulla	F4 AYS	Prospect to Penrith Intersection with Wharf St, Batemans Bay Narooma to Cobargo Junction with Quarantine Bay Rd,	Emergency telephones To Additional lanes Guardrail on crest and curves	Department otal — Freeways Department	7,60 7,60 6,31
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA Princes Highway Eurobodalia Eurobodalia Mumbulla	F4 AYS 1	Prospect to Penrith Intersection with Wharf St, Batemans Bay Narooma to Cobargo	Emergency telephones To	Department otal — Freeways Department	7,60 7,60 6,31 24,63
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA Princes Highway Eurobodalia Eurobodalia	F4 AYS 1	Prospect to Penrith Intersection with Wharf St, Batemans Bay Narooma to Cobargo Junction with Quarantine Bay Rd,	Emergency telephones To Additional lanes Guardrail on crest and curves	Department Intal — Freeways Department	7,60 7,60 6,31 24,63
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA Princes Highway Eurobodalia Eurobodalia Mumbulia Imlay Kiama	F4 1 1 1	Prospect to Penrith Intersection with Wharf St, Batemans Bay Narooma to Cobargo Junction with Quarantine Bay Rd, 3.37 km south of Eden	Emergency telephones To Additional lanes Guardrail on crest and curves Improve visibility and widening	Department Intal — Freeways Department	7,60 7,60 6,31 24,63
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA Princes Highway Eurobodalia Eurobodalia Mumbulia Imlay Kiama	F4 1 1 1	Prospect to Penrith Intersection with Wharf St, Batemans Bay Narooma to Cobargo Junction with Quarantine Bay Rd, 3.37 km south of Eden Fox Ground Turnoff	Emergency telephones To Additional lanes Guardrail on crest and curves Improve visibility and widening Guardrail on crests and curves	Department Intal — Freeways Department	7,66 7,66 6,31 24,63 2,86 4,82
(I) FREEWAYS Western Freeway Blacktown Penrith (II) STATE HIGHWA Princes Highway Eurobodalia Eurobodalia Mumbuila Imlay	F4 1 1 1	Prospect to Penrith Intersection with Wharf St, Batemans Bay Narooma to Cobargo Junction with Quarantine Bay Rd, 3.37 km south of Eden Fox Ground Turnoff Intersection, SH1 and	Emergency telephones To Additional lanes Guardrail on crest and curves Improve visibility and widening Guardrail on crests and curves Roadworks associated with	Department otal — Freeways Department	rovements

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
II) STATE HIGHWA					\$
Princes Highway —	- continu	ued			
Rockdale	1	Intersection of SH1 and Kyle St, Arnoliffe	Signals - Site No. 960	Department	156
South Sydney	1	MR330, Chippendale to Waterfall	Median closures at various locations	,,	4,575
Sutherland	1	Railway level crossing at Loftus	Adjust superelevation	••	39,330
	1	Intersection of SH1 and	•		
		Railway Pde, Engadine	Signals - Site No. 1290	*1	5,269
••	1 &	Intersection of SH1 and			
	227	The Kingsway Kirrawee	Signals		5,931
	1	Intersection of SH1 and Oak Rd, Kirrawee	Additional lanes	17	11,177
Voliongong	1	Foot of Bulli Pass	Provision of safety ramp		
			and deceleration bed	••	139,846
Vollongong		04 4. 04 05 1 4. 4.4. 4	-		
Shellharbour	1	0 km to 31.35 km south of Wollongong	Raised reflective pavement markers	11	14,182
					272,431
lume Highway		Internation of CHO and			
Ashfield	2 &	Intersection of SH2 and	011- 01-N- 4007	0	40.007
	2065	Victoria Rd, Ashfield	Signals – Site No. 1227	Department	19,327
Bankstown	2	Intersection with Jacob St and			0.004
	•	Beresford Ave, Bankstown	Modified channellisation	••	2,634
14	2	Intersection with Meredith St and	A A - also - al - a - a - al to - al -		00.000
	•	The Boulevarde, Bankstown	Modified channellisation	• •	22,285
*1	2	Intersection of SH2 and	Olerada - Olerada - 1105		0.000
	•	Meredith St, Yagoona	Signals – Site No. 1135		2,969
**	2	Intersection of SH2 and	Single Site No. 1104		4 746
		Beresford Ave, Bankstown	Signals – Site No. 1124	٠,,	1,718
	2	Intersection of SH2, Jacob St	Improvement of	O ==-11	44 004
d	2	and Beresford Av, Bankstown	channellised intersection	Council	11,081
Burwood	2	Intersection of SH2, Weldon St	Cianala Cita No. 1161	Department	2 000
	2	and Claremont Rd, Burwood	Signals — Site No. 1161	Department	3,000
 Camden	2	Intersection with Wentworth Rd, Enfield	Modify existing channellisation	***	54,875
Samuen Fairfield	2 2	Narellan to Leppington	Additional lanes at intersection	••	65,706
amieio	2	Intersection with Cabramatta Rd, East Cabramatta	Modified channellisation		6,063
	2 &	Intersection of SH2 and Cabramatta Rd.	Modified Charmenisation		0,003
11	534	East Cabramatta	Signals - Site No. 1146		181
Goulburn	2	Intersection of SH2 and	. Olginais — Olie No. 1140	**	101
JOUIDUIII	-	Vernier St. Goulburn	Channellisation	Council	1,435
Liverpool	2	Intersection of SH2 and	Gramion Gallon	00011011	1,400
	-	Bigge St, Liverpool	Signals - Site No. 1238	Council	1,525
	2	Intersection of SH2 and	5.g.(a.c) 5.10.110. 1200	Council	,,,,,
	_	Reilly St, Liverpool	Signals	"	1,208
м	2	Intersection of SH2 and	- · · · · · · · · · · · · · · · · · · ·	**	.,
.,		Mannix Pde, Warwick Farm	Signals – Site No. 1271	19	9,883
,, .	2	Intersection of SH2 and	Roadworks associated with	**	-,
		Mannix Pde, Liverpool	signals - Site No. 1238	••	7,511
Strathfield	2	Intersection of SH2 and	3	.,	.,
		Wallis Ave, South Strathfield	Signals - Site No. 1253	**	27,854
			•		227,109
					227,108
Snowy Mountains H	-	Proven Mountain	Daisad reflective never +	Danastas	0.46
Mumbulla	4	Brown Mountain	Raised reflective pavement markers	Department	3,101
Snowy River	4	22.0 km west of Cooma	Adjust superelevation	**	1,254
					1,847
Great Western High	WAY				
Ashfield	way 5	Curve near Great North Rd, Haberfield	Realign short section	Department	11,092
Blacktown	5	Intersection of SH5 and	Roadworks associated with	Department	. 1,082
J. John Committee	J	Reservoir Rd, Blacktown	signals — Site No. 1237		224,560
	5	Intersection of SH5 and	signals — Olle NO. 1201		224,301
**	J	Reservoir Rd, Prospect	Signals – Site No. 1237		28,869
	5	Intersection of SH5 and	Orginals — Oite No. 1237		20,00
11	9	Station St, Mt. Druitt	Signals – Site No. 1234		23,826
		Cidaton Ct, mt. Di uttt	Digitals — Ditt 170. 1204	**	23,02
		•			

or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/7
ii) STATE HIGHWAY Great Western High				· · · · · · · · · · · · · · · · · · ·	\$
Blaxland					
Siaxianu	5	Approaches to Railway overbridge,	Overdenil		076
	_	16.9 km west of Lithgow	Guardrail	Department	279
**	5	•	Widening of shoulders	11	64,968
llue Mountains	5	1.5 km to 16.0 km west of Katoomba	Widen shoulders	**	39,223
· ·	5	Wascoe St, Glenbrook, Kabinda Rd,			
		Bullaburra, Hargraves St, Blackheath	Eliminate three intersections	Council	34,684
lolroyd	5	Intersection of SH5 and			
		Toongabbie Rd, Girraween	Signals - Site No. 1233	Department	12,69
larrickville		•	•	•	
Ashfield	5	SH1, Sydney to Lucas Rd. Five Dock	Median Closures		10,26
enrith	5	Intersection of SH5 and	Median ciodares	**	.0,20
Billilli	3		Sinnala Sita No. 1996		21,74
	_	Glossop St, St. Marys	Signals - Site No. 1236	11	21,74
*1	5	Intersection of SH5 and			
		Sydney St, St. Marys	Signals - Site No. 1126	*1	13,68
**	5	Intersection of SH5 and	Roadworks associated with		
		Castlereagh Rd, Penrith	signals - Site No. 1267	**	16,76
		-			502,85
					302,03
lid Western Highwa	-				
Veddin	6	20.0 km,west of Cowra to Marsden	Advisory speed signs on curves	Council	65
					65
Mitchell Highway					
Bogan	7	Bridge over Bogan River at Nyngan	Guardrail on bridge approaches	Department	17,17
ogu.,	7	34.0 km east of Nyngan	Truck parking area	,	7,39
luhha	7 &	Intersection of Darling St	ridek parking area	1.9	,,,,
Dubbo		<u> </u>	Signala		4 41
_	17	and Cobra St, Dubbo	Signals	19	1,10
Orange	7	Intersection of Summer St			
		and Anson St, Orange	Signals - Site No. 1021	**	5,32
					31,00
Barrier Highway					
Cobar	8	isolated curve, 29.0 km east of Cobar	Adjust superelevation	Department	20
					20
lew England Highw	•				
Denman ·	9	Isolated curve, 4.0 km			
		north of Muswellbrook	Adjust superelevation	Department	12,94
Aurrurundi	9	Blandford School, Murrurundi	Realign short section		
			and improve curve	11	5,01
				,,	
					17,95
Pacific Highway					
Bellingen	10	96.75 km north of Kempsey	Guardrail around roadside objects	Department	6,3
_	10	27.6 km to 28.9 km north of Ballina	•	,	6
	10	Intersection of Mann St and	••	***	0
. *	יטו		Disease - 0%-No 4470		
. *		Erina St. Gosford	Signals - Site No. 1173	11	31,1
. *					
. *	10	Intersection of Mann St and			
Gosford	10	Intersection of Mann St and Denison St, Gosford	Signals	1)	5,6
Gostord 	10 10		Signals Raised reflective pavement markers	"	-
Gosford Grafton		Denison St. Gosford			1
Gosford Grafton Great Lakes	10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah		**	1
Gosford Grafton Great Lakes	10 10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0km	Raised reflective pavement markers	**	1 11,1
Gosford Grafton Great Lakes Greater Cessnock	10 10 10	Denison St, Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah		**	1 11,1
Gosford Grafton Great Lakes Greater Cessnock Hastings	10 10	Denison St, Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah Sapling Creek, Gills Creek and railway	Raised reflective pavement markers Raised reflective pavement markers	••	1 11,1 2,7
Gosford Grafton Great Lakes Greater Cessnock Hastings Kempsey	10 10 10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah Sapling Creek, Gills Creek and railway overbridge, 3 km south of Kempsey	Raised reflective pavement markers Raised reflective pavement markers Guardrail on bridge approaches	0 0 0	1 11,1 2,7 24,7
Gosford Grafton Great Lakes Greater Cessnock Hastings Kempsey	10 10 10 10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah Sapling Creek, Gills Creek and railway overbridge, 3 km south of Kempsey 61.0 km north of Taree	Raised reflective pavement markers Raised reflective pavement markers	0 0 0	1 11,1 2,7 24,7
Gosford Grafton Great Lakes Greater Cessnock Hastings Kempsey	10 10 10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah Sapling Creek, Gills Creek and railway overbridge, 3 km south of Kempsey	Raised reflective pavement markers Raised reflective pavement markers Guardrail on bridge approaches		1 11,1 2,7 24,7
Gosford Grafton Great Lakes Greater Cessnock Hastings Kempsey Hastings	10 10 10 10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah Sapling Creek, Gills Creek and railway overbridge, 3 km south of Kempsey 61.0 km north of Taree	Raised reflective pavement markers Raised reflective pavement markers Guardrail on bridge approaches		1 11,1 2,7 24,7 118,7
Gosford Grafton Great Lakes Greater Cessnock Hastings Kempsey Hastings	10 10 10 10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah Sapling Creek, Gills Creek and railway overbridge, 3 km south of Kempsey 61.0 km north of Taree 40.0 km north of Taree to 25.0 km north of Macksville	Raised reflective pavement markers Raised reflective pavement markers Guardrail on bridge approaches Adjust superelevation on isolated curv Advisory speed signs on curves	 e	1 11,1 2,7 24,7 118,7
Gosford Grafton Great Lakes Greater Cessnock Hastings Kempsey Hastings	10 10 10 10 10 10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah Sapling Creek, Gills Creek and railway overbridge, 3 km south of Kempsey 61.0 km north of Taree 40.0 km north of Taree to 25.0 km north of Macksville At Mt. Ku-ring-gai Shopping Centre	Raised reflective pavement markers Raised reflective pavement markers Guardrail on bridge approaches Adjust superelevation on isolated curv Advisory speed signs on curves Pedestrian Overbridge	 e	1 11,1 2,7 24,7 118,7
Gosford Grafton Great Lakes Greater Cessnock Hastings Kempsey Hastings Hornsby	10 10 10 10 10 10 10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah Sapling Creek, Gills Creek and railway overbridge, 3 km south of Kempsey 61.0 km north of Taree 40.0 km north of Taree to 25.0 km north of Macksville At Mt. Ku-ring-gai Shopping Centre Intersection with Jersey St, Asquith	Raised reflective pavement markers Raised reflective pavement markers Guardrail on bridge approaches Adjust superelevation on isolated curv Advisory speed signs on curves Pedestrian Overbridge Modified channellisation	 e	1 11,1 2,7 24,7 118,7
Grafton Great Lakes Greater Cessnock Hastings Kempsey Hastings 	10 10 10 10 10 10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah Sapling Creek, Gills Creek and railway overbridge, 3 km south of Kempsey 61.0 km north of Taree 40.0 km north of Taree to 25.0 km north of Macksville At Mt. Ku-ring-gai Shopping Centre Intersection with Jersey St, Asquith Various locations, 16.35 km south to	Raised reflective pavement markers Raised reflective pavement markers Guardrail on bridge approaches Adjust superelevation on isolated curv Advisory speed signs on curves Pedestrian Overbridge Modified channellisation Remove, relocate and	e	5,6 1 11,1 2,7 24,7 118,7 5,0 64,8
Gosford Grafton Great Lakes Greater Cessnock Hastings Kempsey Hastings Hornsby	10 10 10 10 10 10 10	Denison St. Gosford Bridge over Clarence River at Grafton Karuah to Bulahdelah Hexham Bridge to 20.0 km south of Karuah Sapling Creek, Gills Creek and railway overbridge, 3 km south of Kempsey 61.0 km north of Taree 40.0 km north of Taree to 25.0 km north of Macksville At Mt. Ku-ring-gai Shopping Centre Intersection with Jersey St, Asquith	Raised reflective pavement markers Raised reflective pavement markers Guardrail on bridge approaches Adjust superelevation on isolated curv Advisory speed signs on curves Pedestrian Overbridge Modified channellisation	 e	1 11,1 2,7 24,7 118,7

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
II) STATE HIGHWA	AYS - co	ntinued			\$
Pacific Highway -	continue	ed			
ake Macquarie	10	Northbound carriageway,			
		17.0 km south of Newcastle	Improved skid resistance	Department	241
Maclean	10	64.0 km north of Grafton	Realignment	**	4,262
Manning	10	Various locations, 36.0 km south to	Remove, relocate and		
		39.93 km north of Taree	guard roadside objects	**	741
11	10	Harrington Rd, 20.4 km north of Taree	Additional lanes	11	92,746
*1	10	36 km south to 73 km north of Taree	Daised reflective asymmet markers		10 701
Nawaantla	10	and 0 km to 33 km north of Kempsey Intersection of Hunter and	Raised reflective pavement markers	11	10,701
Newcastle	10	Denison Sts, Newcastle	Improvement	Council	3,588
North Sydney	10	Intersection of SH10 and	Roadworks associated with	000,,0,,	5,005
, torin oyono,		Berry St, North Sydney	signals - Site No. 1206	Department	4,453
North Sydney	10	Intersection of SH10 and			
-, -		Berry St, North Sydney	Signals - Site 1206	Department	30,614
Richmond River	10	Various locations, 69.0 km to			
		72.0 km north of Grafton	Improve skid resistance	71	2,272
11	10	66.0 km to 74.0 km north of Grafton	Remove, relocate and		
			guard roadside objects	**	7,398
**	10	93.0 km to 95.0 km north of Grafton	Provision of roadside shoulders	31	14,877
rr ,	10	Bridge over Rattle Creek,	O and add to a control of the contro		
	40	12.8 km north of Maclean	Guardrail on approaches	*1	63
Tweed	10	70.0 km to 89.0 km north of Ballina	Guardrail on bridge approaches		7.0
I I I I I I I I I I I I I I I I I I I	40	46 Aliman Ed Olimand EG Oliman	at three locations	11	76
Ulmarra	10	46.4 km to 51.0 km and 56.2 km to 58.9 km north of Coffs Harbour	Clearing of shoulders		1.011
	10	30 km to 40 km north of Coffs Harbour	Guardrail around roadside objects	11	1,239
**	10	16 locations, 19.99 km to	· · · · · · · · · · · · · · · · · · ·	11	1,200
,11	, 0	79.18 km north of Coffs Harbour	Provision of bus bays		2,188
**	10	46.4 km north of Coffs Harbour	Remove, relocate and	ti.	_,,,,,
**			guard roadside objects		1,202
••	10	43.0 km to 46.4 km north of Coffs Harbour	Provision or clearing of shoulders	11	13,613
	10	44.0 km north of Coffs Harbour	Remove, relocate and		
			guard roadside objects	**	4,251
	10	Intersection of SH10 and Kungala Rd	Visibility improvement	Council	4,784
Willoughby	10	Intersection of SH10, Wyvern Av		_	
		and William St, Chatswood	Signals – Site No. 1305	Department	49,333
D	10	Intersection of SH10 and			
	40	Railway St, Chatswood	Signals — Site No. 1219	11	31,004
**	10	Intersection of SH10, Wyvern St	Roadworks associated with signals — Site No. 1305		5 000
	10	and William St, Chatswood Intersection of SH10 and	Roadworks associated with	ю	5,989
	10	Railway St, Chatswood	signals — Site No. 1219		9,981
Woodburn	10	2.0 km to 5.0 km north of Woodburn	Guardrail on bank of Richmond River	**	167
Wyong	10&	Intersection of SH10		**	, , , ,
,	509	and MR509, Doyalson	Signals - Site No.1311		19,437
		•	-		608,552
					,
Oxley Highway					
Hastings	11	0 km to 107.02 km west of Port Macquarie	Advisory speed signs on curves	Department	1,545
Liverpool Plains	11	48.9 km to 74.5 km west of Tamworth			
		and 17.9 km west of Gunnedah		Council	97
Gwydir Highway					
Nymboida	12	32.66 km west of Grafton	Guardrail around roadside objects	Department	1,873
···	12	25.0 km to 45.0 km west of Grafton	Provision or clearing of shoulders		6,450
*1	12	19.0 km west of Grafton	Widen cuttings		1,239
,,	12	10.0 km to 25.0 km west of Grafton	Provision or clearing of shoulders	••	6,436
Severn	12	13.5 km west of Glen Innes	Realign curve and		
			adjust superelevation	Council	3,142
**	12	Intersection 69.0 km east of Glen Innes	Additional lane at intersection	Department	18,797
Yallaroi	12	13.0 km west of Warialda	Realign short section	Council	4,784
**	12 &	Intersection of SH12 and			
	63	TR63 west of Warialda	Channellised intersection	,,	5,920
					50,08

APPENDIX No. 12 — continued
TRAFFIC FACILITIES FUND

(B) Summary of Payments from Grants under the Roads Grants Act for Minor Traffic Engineering and Road Safety Improvements

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(II) STATE HIGHWA	YS — co	ntinued			\$
State Highway No.	13				
Bankstown	13	Intersection of Woodville Rd			
		and Orchardleigh St, Guildford	Signals - Site No. 1149	Department	41,453
Baulkham Hills	13 &	Intersection of SH13 and	0, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		40.000
Hornsby	156	MR156 west Pennant Hills	Signals - Site No. 1150	1.9	16,006
Hornsby	13 &	Intersection of SH13 and	Cinnella Citable 1000		40 700
	139 13 &	Beecroft Rd (east), Beecroft Intersection of SH10 and	Signals — Site No. 1226	TI .	19,739
**	139	Jersey St, Asquith	Signals - Site No. 1083		1,247
	100	dersey or, Asquitti	Orginals — One (40, 1000	**	
4					78,445
Sturt Highway					
Balranald	14	Intersection of Market and			
	, ,	McCabe Sts, Bairanaid	Modification of existing channellisation	n Department	6,885
Hay	14	Roundabout at intersection with		on Doparimon	0,000
,		SH21, South Hay	P	11	11,225
		•			18,110
Bruxner Highway					
Kyogle					
Tomki					
Gundurimba	16	Tabulam to Ballina	Advisory speed signs on curves	Department	3,033
Lismore	16	Hunter, Zadoc and Milton St			
		intersections, Lismore	Bus bays	Council	4,784
					7,817
Newell Highway					
Jerilderie	17	9.9 km to 21.0 km south of		_	
		Urana Shire boundary	Seal shoulders on curves	Department	11,705
Talbragar	17	Obley Rd at Open Range Zoo, Dubbo	Additional lanes at intersection	**	2,284
				•	13,989
Monaro Highway	10	20.01-m anual of Con	Inches and the second second	D	4 000
Monaro	19 19	30.0 km south of Cooma 58.6 km to 66.0 km and 67.9 km to	Improve skid resistance	Department	1,003
***	13	72.3 km south of Canberra	Improved skid resistance		2,690
		72.5 Kill south of Carlot 14	mproved skid resistance	11	
					1,687
State Highway No.	23				
Lake Macquarie	23	Intersection of Charlestown and			
		Hillsborough Rds, Charlestown	Signals	Department	1,103
			. .		1,103
					1,100
Illawarra Highway					
Shellharbour	25	2.78 km at Albion Park to			
		19.79 km west of SH1	Raised reflective pavement markers	Department	14,182
Wingecarribee	25	Intersection of SH25 and Oldbury Rd	Seal shoulders on crest	Council	17,940
					32,122
			Total — St	ate Highways	1,865,978
					-,,,,,,,,,
(III) TRUNK AND O					
Bankstown	167	Intersection of Milperra Rd and	A A	_	
Davileban Mills	104	Edgar St. Revesby	Signals - Site No. 853	Department	1,109
Baulkham Hills	184	Intersection of Windsor Rd and	Cinnale Physics 1000		
Parramatta Baulkham Hills	184	Moxhams Rd, Northmead Intersection of Windsor Rd and	Signals — Site No. 1086	**	5,742
Pariniani mis	104	Cook St, Baulkham Hills	Signale		8 075
Bellingen	76	Intersection of TR76 and Rocky Creek Rd	Signals Visibility improvement	Council	9,975
Bingara	63	27.0 km south of Bingara	Realign short section	Council	2,392 5,980
bingara	133	Killarney Gap	Guardrail on curves	••	5,980 7,176
**	133	At Killarney Gap	Realign short section	;,	3,588
**		,		**	5,500

Credit

City, Municipal or Shire Area	Roed No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(HI) TRUNK AND OR	DINARY	MAIN ROADS —continued			\$
Blaxland	516	5.5 km to 6.61 km east of Lithgow	Provision of shoulders	Department	2,179
	516	12.56 km to 12.71 km east of Lithgow	Guardrail on curve	11	5,946
	516	7.6 km to 8.4 km east of Lithgow	Provision of shoulders	"	14,336
Blue Mountains	184	43.63 km to 77.44 km west of Windsor	Raised reflective pavement markers	"	11,350
"	516	66.71 km to 79.62 km west of Windsor		"	191
Boomi	367	Millie Creek Bridge 15.0 km east of Garah	Guardrail on bridge approaches	Council	3,588
Botany	170	Intersection of Botany Rd and			-,
· · ,		Banksia St, Botany	Signals - Site No. 1211	Department	25,823
,,	183	Gardeners Rd and	•	•	
		Racecourse Place, Eastlakes	Modified channellisation	**	44
Botany					
Rockdale	194	Mascot to Brighton-Le-Sands	Raised reflective pavement markers	**	2
Bourke	68	Adjacent to Bourke High School, Bourke	Bus bay	Council	4,838
	68	Jandra Creek Bridge No. 2,			
		10.0 km south of Bourke	Guardrail on bridge approaches	11	25,475
**	404	Green Creek Bridge approaches	Guardrail	**	6,757
Brewarrina	68	Approaches to Billabong Creek			
		Bridge at Brewarrina	Guardrail	,,	4,425
Burrangong	78	Intersection with road to Bendick Murrell	Seal shoulders on curve	***	7,535
,,	241	Young to Narraburra Shire boundary	Advisory speed signs on curves		24
Byron	65	27.3 km north of Lismore	Adjust superelevation on isolated curve		1,544
Canterbury	167	Canterbury Rd - full length	Raised reflective pavement marking	Department	1,978
,,	167	Intersection of Canterbury Rd and	,	•	
		Wonga St, Canterbury	Signals - Site No. 1167	**	20,665
Carrathool	501	18.2 km east of TR80	Advisory speed signs on curves	Council	32
Coffs Harbour	151	Intersection of MR151 and Mt. Brown Rd	Realign short section	17	2,392
Colo	184	Intersection with Grose Vale and	3	.,	
		Terrace Rds, North Richmond	Channellised intersection	11	4,987
Cootamundra	78	Two railway overbridges at Cootamundra	Removal of brick parapet	**	3,588
Crookwell	52 &	The fall way of ordinarion and a second manufacture and a second manufa	Tomovar of Silven paraper	••	3,333
0.00	54	Intersection TR52 and TR54	Channellisation	.,	8,372
•	201	Sandy Creek, 29.2 km north of TR54	Guardrail on bridge approaches	,	241
Denman	209	Full length within Shire —	GGE G EN GU ST G G EPP GGG GG	••	
		various locations	Advisory speed signs on curves	11	6,483
Dumaresq	74	6.87 km to 51.85 km east of Armidale		11	493
	75	50.0 km east of Armidale	Realign short section	11	6,698
Dungog	301	Isolated curve.			,
99		2.6 km north of Clarencetown	Adjust superelevation		8,372
Fairfield	534	Cabramatta Rd and	Convert cross intersections		-,
		Church St, Cabramatta	to 'T' junctions	Department	1,654
Gloucester	90	Craven at Wards River to Bakers Hill,	,	•	
	* -	40.23 km west of SH10	Advisory speed signs on curves	Council	500
Great Lakes	90	MR567 to Craven at Wards River	"		14,047
	111	Isolated curve, 28.6 km north	"		,
**		of Bulahdelah at Bungwahl	Adjust superelevation	**	11,960
Greater Cessnock	181	3.3 km and 3.4 km north of Bucketty	Improvement of superelevation	,,	,
a. 02.0. 000000			on curves		13,156
	218	Maitland City boundary to	5.1.55.1.55	**	,
**	210	Colo Shire boundary	Advisory speed signs on curves		8,644
	220	0 km to 21.5 km north of Cessnock and	riation, open on give on our co	••	0,044
**		57.5 km to 74.9 km north of Wyong			4,127
Harden	84	Demondrille Creek Bridge	Guardrail around roadside objects	1)	11,362
	380	Northern Shire boundary to	Cuararan around roudoido objecto	11	,
11	300	TR84 at Cunningbar	Advisory speed signs on curves		217
	381	Murrumburrah to SH2 at Jugiong	• • •	*1	875
Hornsby	139	Intersection with Lyne Rd, Cheltenham	Curve improvement	**	10,764
	587	Intersection with Bridge Rd and	our compression	**	,
11	307	Railway Pde, Hornsby	Modified channellisation	Department	24
Hunters Hill	165	Intersection of Victoria Rd and	Woomed Charmemaatton	Department	~~
riumora i iii	, 00	Crown St, Henley	Signals - Site No. 1297		6,450
	165	Intersection of Victoria Rd and	Signals Site No. 1231	*1	5,750
	100	Crown St, Henley	Signals – Site No. 1297		5,524
н			Gigitais — Gille 190. 1231	**	3,324
	169				
 Hurstville	168	Intersection of Forest Rd and	Signals — Site No. 641		12 212
Hurstville		Intersection of Forest Rd and Jacques Ave, Peakhurst	Signals – Site No. 641	***	12,312
	168 & 508	Intersection of Forest Rd and	Signals – Site No. 641	,,	12,312 10,633

APPENDIX No. 12 — continued

TRAFFIC FACILITIES FUND

(B) Summary of Payments from Grants under the Roads Grants Act for Minor Traffic Engineering and Road Safety Improvements

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(III) TRUNK AND C	RDINAR	MAIN ROADS — continued			\$
Invereil			Dadastian assisata	Causail	7,774
	73	O'Connor St Bridge, Invereil	Pedestrian precincts	Council	255
Kogarah	194	Bay St to SH1	Raised reflective pavement marking	Department	
 ∕::	315	At South Hurstville Public School	Pedestrian overbridge	"	209,90
Ku-ring-gai	328	Intersection of Archer St and	Otalia		44 74
Willoughby	017	Boundary St, Roseville	Signals — Site No. 1207	**	14,71
Lake Macquarie	217	42.47 km to 44.37 km	Widen and seal road	O	0.00
	217	south of SH23, Wyee	shoulders on curves	Council	9,88
**	217	Junction of Lake Rd with	Landard and the state of the st		70 70
	047	Reservoir Rd, Glendale	Improvement of visibility	***	79,70
**	217	Full length within Shire —	Addition and the second		7.40
	247	various locations	Advisory speed signs on curves	11	7,43
••	217	Fishery Point Rd, Morisset,	Descriptor of accordant to a		2 26
	A47	34.94 km south of SH23	Provision of passing lane	11	2,36
**	217	Junction with previous route of			49.45
	047.0	MR325 at Cockle Creek	Modify existing channellisation		13,15
**	217 &	Intersection of MR217 and MR392,	A 4 494		40.70
	392	1.5 km south of Morisset	Additional lane	***	10,76
**	223	2.24 km to 14.32 km west of Cardiff	Advisory speed signs on curves	*1	3,87
**	527	Intersection of Hillsborough Rd			44.05
	507	and Macquarie Rd, Warners Bay	Signal – Site No. 1331	Department	16,07
**	527	Junction of Croudace Bay Rd			
		with Andrew Rd, Valentine	Provision of passing lane	Council	1,58
Leeton	80&	Intersection with MR539,	A 27 H AVA A	•	4 07
	539	22.5 km west of Leeton	Visibility improvement	**	8,37
*1	80 &				
	539	Intersection of TR80 and MR539	•	II	23,92
Leichhardt	165	Pittwater Rd, Gladesville to			
Hunters Hill		Murray St, Pyrmont	Raised reflective pavement markers	Department	2,55
Maclean	152	Intersection with Angourie Rd, Yamba	Improvement	Council	9
Maitland	101	SH9 at Maitland to			
		Dungog Shire boundary	Advisory speed signs on curves	11	2,37
	102	SH9 at East Maitland to			
		Port Stephens Shire boundary	Advisory speed signs on curves	*1	1,40
••	104		O	*1	2,91
,,	301	MR101 at Bolwarra to			
		Port Stephens Shire boundary	11	1)	86
Manly	164	Avona Crescent to the			
		Spit Bridge, Seaforth	Improve skid resistance	Department	29,61
Merriwa	62	17.25 km east to			
		59.41 km west of Merriwa	Bridge width markers	Councit	1,06
11	62	Isolated curve, 8.0 km west of Merriwa	Adjust superelevation	**	10,34
**	209	0 km to 24.86 km south of Merriwa	Bridge width markers		
			at various locations	**	21
**	209	9.4 km and 10.5 km east of Merriwa	Provide guardrail on curves and		
1			adjust superelevation	**	1,84
i.	214	0 km to 41.44 km south of TR62	Bridge width markers at		
			various locations	**	23
Molong	61	19.2 km to 24.0 km west of Orange	Improved skid resistance	**	1,20
Mosman	164	Intersection of Military Rd and	Roadworks associated with		
		Cowles Rd, Mosman	signals — Site No. 1224	Department	27,52
	164	Intersection with Cowles Rd, Mosman	Signals — Site No. 1224	••	21,21
Murray Darling			_		
Division	66	9.0 km east of Broken Hill	Realignment	**	16,75
••	66	20.0 km east of Broken Hill	Adjust superelevation	••	34,75
Nambucca	118	3.4 km north of Macksville	Realign short section to		
		_	improve sight distance	Council	17,94
Namoi	72	Bridge over Deadmans Gully	Guardrail on bridge approaches	4.	4,54
Newcastle	82	Intersection of Broadmeadow Rd			
		and Brisbane Rd, Broadmeadow	Signals — Site No. 1122	Department	5,09
	82	Intersection of Griffiths Rd, and			
		Orlando Rd, Lambton	Signals Site No. 1168	**	2,58
	82	Broadmeadow Rd and			
		Brisbane Rd, Broadmeadow	Channellised intersection	Council	8,37
**	82	Intersection of Donald St and			
		Beaumont St, Hamilton	Improvement	11	3,58

ity, Mun i cipal Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amour 1976/7
) TRUNK AND O	RDINARY	MAIN ROADS — continued			\$
ewcastle	108	8.37 km to 16.58 km north of Newcastle	Raised reflective pavement markers	Council	1,38
,,	188 &	Intersection of Lorna and	·		
	605	Maud Sts, Waratah	Improvement	11	2,39
**	217	SH23 at Shortland to			
		Lake Macquarie Shire boundary	Advisory speed signs on curves	**	86
	223	Curley Rd, Broadmeadow	Channellised intersection	**	10,76
••	316	Intersection of Hunter St and		_	
		Denison St, Wickham	Signals – Site No. 1137	Department	94
	316	SH10 at Mayfield to		Coupeil	2 45
	24.0	SH10 at Newcastle West	Advisory speed signs on curves	Council	3,45
**	316	Intersection of Hannell St and	Improvement		20,33
	326	Cowper St, Newcastle Turton and Georgetown Rds,	Improvement	***	20,55
	320	Georgetown			3,58
	326	Bridge Rd, north of Rydal St,	M	*1	-,
**	020	New Lambton	Signals - Site No. P264	Department	37
11	605	Rankin Dr, Hugo Ave and		• •	
"		Moore St, Birmingham Gardens	Channellised intersection	Council	3,58
**	605	Intersection of Rankin Dr. Hugo Av			
		and Moore St, Birmingham Gardens	Signals — Site No. 641	Department	24,1€
arramatta	184	Intersection of Old Windsor Rd and	Improvement of channellised		
		Briens Rd, Wentworthville	intersection	Council	59,80
**	184	Intersection with Barney St,			
		North Parramatta	Modified channellisation	Department	3,26
**	184	SH13, Parramatta to divisional			
		boundary at Berambing	Raised reflective pavement markers	11	16,69
arry	105	21.2 km to 21.43 km and 22.05 km to	Chainwire protection fencing	Causail	4,4
	100	22.17 km south of Tamworth	adjacent to curves	Council	4,4,
eel ant Stanbana	130	23.95 km to 27.1 km south of Tamworth	Advisory speed signs on curves	19	8,7
ort Stephens	90 108	SH10 to Great Lakes Shire boundary From SH10 and Lake Macquarie Rd	10	• •	0,7
**	100	to Shoal Bay	Advisory speed signs on curves		9.2
	108	Southbound lane at Nelson Bay	Passing lane	**	15,5
11	302	SH10 at Hexham to MR108	· according to the	**	13,5
**		at Williamtown	Advisory speed signs on curves	.,	2,44
ueanbeyan	51	Intersection TR51 and		••	_•
•		Kendall Ave, Queanbeyan	Channellisation	11	9,5
andwick	171	Intersection of Anzac Pde and	Roadworks associated with		
		Barker St, Kensington	signals — Site No. 1189	Department	3,7
**	171	Intersection of Anzac Pde and			
		Middle St, Kingsford	Signal — Site No. 1136	**	1,0
17	171	Intersection of Anzac Pde and			
		High St, Kensington	Signals — Site No. 1169	1.6	12,9
,,	171		"	**	
**	317 &	Intersection of Anzac Pde and	0		
	2074	Fitzgerald Ave, Maroubra	Signals — Site No. 847	11	1,4
**	327	Intersection of Anzac Pde and	Cinnala Citable 1100		20.0
ockdale	194 &	Barker St, Kensington Intersection of Grand Pde and	Signals — Site No. 1189	19	29,9
OUNGAIC	2079	President Ave, Brighton	Signals - Site No. 878		6
yde	139 &	Intersection of Blaxland Rd and	Signate - Oile No. 575	• >1	•
,	2024	Balaclava Rd, Eastwood	Signals — Site No. 957	,,,	2
**	139 &	Intersection of Blaxland Rd and			_
	2024	Balaclava Rd, Eastwood	Modify existing channellisation	Council	4,7
cone	62	0 km to 47.15 km west of Scone	Bridge width markers	***	3
**	105	0 km to 47.0 km east of Scone	9	1.	1,4
outh Sydney	170	Intersection of Botany Rd and			
		Epsom Rd, Zetland	Signals — Site No. 1232	Department	29,9
.,	170	Intersection of Botany Rd and			
		Collins St, Rosebery	Signals - Site No. 1231	**	15,6
**	528 &	Intersection of Bourke St and			
	2008	McEvoy St, Waterloo	Signals		5
	593	MR330, Moore Park	Additional lanes at intersection	Council	10,1
utherland	227	Intersection of Kingsway, Milburn Rd and Gymea Bay Rd, Gymea	.		.
			Signals – Site No. 1127	Department	23,3

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
III) TRUNK AND O	RDINARY	MAIN ROADS - continued			\$
Sutherland	227	Intersection of Kingsway and			
		Wandella Rd, Miranda	Signals	Department	861
**	327	Intersection of Port Hacking Rd and	_	•	
		The Kingsway, Miranda	Signals - Site No. 871	11	1,155
Sydney	172	Wentworth Ave, East Sydney to			
Woollahra		Ramsgate Ave, Bondi	Raised reflective pavement markers	11	16
Sydney	592	Intersection of Sir John Young Cres			
		and Cahill Expressway	Modified channellisation	Council	12,533
**	592	Cahili Expressway under Botanic			
		Gardens, north of tunnel	Median barrier	Department	49,275
Tamarang	129	TR72 to Bundella	Adjust superelevation on		
			isolated curves	Council	105
Ferania	142 &	Intersection of MR142 and MR141,			
	141	19.87 km north of Lismore	Visibility improvement	••	7
Jrana	125 &				
	59	Intersection of MR125 and TR59	Visibility improvement	**	1,196
Nade	254 &		•		
	80	Intersection with TR80 at Wumbulgal	Improvement	**	10,764
11	321	Beelbangera and			
		Bilbul Rds, Beelbangera	Improvement of intersection	**	10,156
Wakool	94	58.93 km to 59.52 km west of \$H21	Improve skid resistance	**	3,349
Walgett	329	Approaches to Cashells Bridge,			
		6.0 km north of Pilliga	Improvement of traffic facilities	12	14,094
Warren	202	Marthaugy Creek Bridge,			
		20.0 km north of SH11	Guardrail on bridge approaches	. 11	9,568
Narringah	164	Intersection of Pittwater Rd and			
		South Creek Rd, Dee Why	Signals - Site No. 1205	Department	22,121
**	164	Intersection of Pittwater Rd and	Roadworks associated with		
		Waterloo Rd, Narrabeen	signals Site No. 1257	Council	1,794
**	164	Intersection of MR164 and	Roadworks associated with		
		Ocean Grove Collaroy	signals — Site No. 1220	**	215
••	164	Intersection of MR164 and			
		Ocean Grove Collaroy	Signals — Site No. 1220	Department	24,755
**	164	Intersection of Pittwater Rd and			
		Garden St, North Narrabeen	Signals – Site No. 1178	n	19,403
*1	164	Intersection of Pittwater Rd and			
		Waterloo St, Narrabeen	Signals — Site No. 1257	**	10,011
**	164	Intersection of MR164 and			
		Plateau Rd, Avalon	Channellisation	**	10,568
***	529	Intersection of the Forestway and			
		Glen St, Beirose	Signals	11	3,149
Waverley	339	Intersection of Old South Head Rd			
Woollahra		and Victoria St, Bondi	Signals - Site No. 1147		686
Wellington	353	Coomabella to SH7	Provide shoulders	Council	15,548
Wellington	573	Stuart Town to			
		Canobolas Shire boundary	Clear shoulders	Council	573
Willoughby	373	Mowbray Rd, West Lane Cove	Improvement of intersection	Department	14,42
	599	Intersection of Eastern Valley Rd and	.		
		Smith St. Castle Cove	Signals — Site No. 1295	19	22,270
Windsor	184	Intersection of MR184 and			
		level crossing road, Mulgrave	Provision of passing lane	11	18,423
Wollondilly	177	Appin to Wollondilly Shire boundary	Bituminous surfacing of		
			shoulders on crest	Council	35,880
Nollangong	177	42.0 km to 47.65 km, south of SH2	Raised reflective pavement markers	Department	14,182
**	522 &	Intersection of King St and			
	613	Northcliffe Dr, Warrawong	Signals - Site No. 537	•	1,780
Woollahra	173	New South Head Road — full length	Raised reflective pavement		
			marking - centre line	**	2,306
**	339	Old South Head Rd — full length	Raised reflective pavement		
			marking — centre line	**	1,836
Wyong	217	SH10 at Wyong to Lake Macquarie			
		Shire boundary	Advisory speed signs on curves	Council	2,161
Yarrowiumia	51	Queanbeyan to TR79	Reflective delineators on		
			lightweight posts	11	2,392
			Total — Trunk and Ordinar		1,539,482

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/77
(iv) DEVELOPME!	ITAL ROA	ADS			\$
Bogan	1163	Bogan Bridge and approaches	Guardrail	Council	6,279
3 - · ·	1178	Murrawombie Bridge approaches	,,	**	8,795
		•	Total — Develo	pmental Roads	15,074
v) SECONDARY F	ROADS				
Ashfield Bankstown	2056 2068	Bridge over Hawthorn Canal Intersection of River Rd and	Steps to bridge underpass	Council	1,869
Blacktown	2084	Marco Avenue, Revesby Intersection with	Signals — Site No. 1134	Department	7,043
		Wall Park Ave, Blacktown	Channellisation	Council	10,764
Burwood	2027	Wentworth Rd and Railway Pde, Burwood	Channellised intersection	**	32,89
.eichhardt	2042	The Crescent, north of Railway Pde, Rozelle	Adjust superelevation	"	11,96
forth Sydney	2036	Intersection of Belgrave St and Young St, Cremorne	Signals — Site No. 1221	Department	21,20
Parramatta	2066	Intersection of Campbell St and Marsden St, Parramatta	Signals - Site No. 1098	**	13,40
Randwick	2074	Intersection of Anzac Pde and Beauchamp Rd, Maroubra	Signals - Site No. 1020	11	4
Sutherland	2075	Intersection of President Ave and Kareena Rd, Caringbah	Signals — Site No. 1219		23,44
	2075	Intersection of President Ave and Oak Rd, Kirrawee	Signals - Site No. 1076		81
**	2075	President Ave, west of the Kingsway, Caringbah	Channellised intersection	Council	54
Villoughby	2092	Intersection of Mowbray Rd and Archer St, Chatswood	Signals - Site No. 1296	**	17,43
			Total — Se	condary Roads	118,81
VI) ROADS OTHE	RTHANN				
Armidale		Intersection of Dumaresq St and		Councit	7.17
Ashfield		Dangar St, Armidale Eastern and western ends of Graham	Additional lanes Guardrail inside kerbline	Council	7,17
		Reserve and Palace St, Ashfield Intersection of Holden St and	around roadside objects	***	1,19
••		Arthur St, Ashfield Intersection of Queen St and	••	**	1,19
**		Arthur St, Ashfield		11	1,19
••		Lackey St intersection, Summer Hill	Remove, relocate and guard roadside objects	,,,	1,50
Bankstown		Intersection of Marion St and William St, Condell Park	Signals	Department	76
Baulkham Hills		Intersection with Oaks Rd and North Rocks Rd, Carlingford	Turning lanes	Council	14,35
Berrigan		Intersection of Tuppal St and Tocumwal St, Berrigan	Channellisation	13	8,37
Blacktown		Intersection of Johnson Ave and Northcott Rd, Seven Hills	Modify channellisation	••	3,42
**		Intersection of Newton St and Balmoral St, Blacktown	Signals – Site No. 1123	Department	34
**		Intersection of Sunnyholt Rd, Sackville St and Fifth Ave, Blacktown	Signals - Site No. 1324		19,70
Boolooroo Boomi		Milroy Rd, 2.0 km west of SH17 Caidmurra Bridge (Morialta Rd),	Realign short section	Council	2,39
D		16.4 km north of SH12 Frogmore to Wyangala Rd —	Guardrail on bridge approaches	*1	4,18
Boorowa		various locations	Guardrail on bridge approaches	11	7,69 3,41
_					.5.6
Boree Bowral		Paytens Bridge on Eugowra Rd Oxley Dr and Oxley Hill Rd, Bowral Junction of Bridge Park Rd and	Guardrail on curves		35,8

^{*}Credit

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(vi) ROADS OTHER	THAN M	AIN ROADS - continued			\$
Burrangong		Young to Binalong Rd,			
gg		8.0 km south of Young	Improvement to alignment	Council	54
Burwood		Intersection of Victoria St and			
		Shaftesbury Rd, Burwood	Signals - Site No. 1157	Department	11,271
Byron		Coorabell Rd	Seal shoulders on curves	Council	3,588
Camden		Macquarie Gr and Cobbity Rd and			
		Catherine Fields and Deepfields Rd	Upgrade street lighting at intersections	*1	54,961
Campbelltown		Georges River Rd and			
		Wamanda Ave, Campbelltown	Channellised intersection	11	10,393
		Short length of Georges			
		River Rd, Campbelltown	Realignment and widening	10	9,568
Canterbury		Intersection of Burwood Rd and			
		Leyland Rd, Belmore	Additional lane	**	22,246
**		Intersection of Haldon St and			
		The Boulevarde, Lakemba	Signals - Site No. 1299	Department	33,694
.,		Intersection of Lakemba St and	•	·	
		Haldon St, Lakemba	Signals Site No. 958	••	928
Canterbury		Intersection of Broadarrow Rd	•		
Hurstville		and Hannans Rd, Narwee	Signals - Site No. 1164	**	19.965
Canterbury		Intersection of Bonds Rd and		,,	,.
		Hannons Rd, Riverwood	Signals - Site No. 995	,,	688
Cobar		Blakey St, Cobar	Provision of bus bay	Council	13,156
Cowra		Taragala railway overbridge linking	,		
		Argoon St to Baronga St, Cowra	Guardrail on bridge approaches		2,272
Drummoyne		Intersection of Henley Marine Drive,	add. d. d d dgg app. dadd	**	_,
		Arthur St and Timberell St	Channellisation		17,940
Dubbo		Intersection of Myall St and	Chairmonia attori	**	(1,0-10
0,000		Wheelers St, Dubbo	Channellisation		16,385
Dungog		Wangat Rd, 1.8 km north of Dungog	Widening and bituminous surfacing	**	. 0,000
ougog		Transaction, to kin florid of building	of shoulders on crests		3,588
Fairfield		Intersection of Railway Pde and	OI SHOULDERS ON CITESUS	+,	3,500
1 dillingio		Frederick St, Fairfield	Passing lane		7,535
		Intersection of The Boulevarde and	r assing lane	11	7,333
**		Avenal St. Fairfield	Seal shoulder on curve		5,023
Gloucester		Intersection of Barrington East Rd and	Seal shoulder on curve	11	5,023
Gloucester		Walcha Rd (Gloucester-Nowendoc Rd)	Improvement of sight distance		13,156
Goodradigbee		MR278 to Goodhope — various locations	Advisory speed signs on curves	**	-
Gosford		Blackwall Rd and	Advisory speed signs on curves	FF	2,161
Gosiora			Interportion improvement		23,920
Grafton		Orange Grove Rd, Gosford	Intersection improvement	11	23,920
Granon		Intersection of Prime St and	Madify avioting channellingting		1 100
Greater Cessnock		Fitzroy St. Grafton Intersection of Congewoi Rd and	Modify existing channellisation		1,196
Greater Cessilock		Middle Rd. Paxton	Visibility improvement	Causail	10 764
Maleaud			Visibility improvement	Council	10,764
Holroyd		Intersection of Fowler Rd and Hawksview Rd. Guildford	Declinament of chart continu		5 000
		*	Realignment of short section	1)	5,980
!!		Intersection of Guildford Rd and	Chanal Highlan		00 704
Manak		Fowler Rd, Guildford	Channellisation	11	22,724
Hornsby		Chilvers Rd and Sefton Rd, Thornleigh	Channellised intersection	**	13,590
11		Malsbury Rd at railway			
		station, Normanhurst	Signals - Site No. P263	Department	304
Hunters Hill		Flagstaff St, Gladesville	Realignment of short section	Council	5,382
Hurstville		Intersection of Bonds Rd and			
		Talbot Rd, Riverwood	Channellisation	**	7,176
invereil		Ring St and Bannockburn Rd, Inverell	Additional lanes at intersection		8,372
Jemalong		Back Marsden Rd	Seal pavement on shoulders	**	3,837
Kiama		Mt. Brandon Rd and Jerrara Rd, Kiama	Guardrail on curves	• •	23,178
Ku-ring-gai		Intersection of Comenarra Parkway and	_		
		Kissing Pt Rd, Turramurra	Signals	Department	898
Liverpool		Cowpastures Rd and			
		Bringelly Rd, Leppington	Improve visibility at intersection	Council	4,784
Liverpool Plains		Emerald Hill to Goulhi Rd, 11.7 km to			
		12.2 km west of TR72	Improvement of alignment	**	1,070
Marrickville		Intersection of Illawarra Rd and			

City, Municipal or Shire Area	Roed No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(VI) ROADS OTHE	R THAN N	MAIN ROADS — continued			\$
Mittagong		Range Rd, Glen Quarry, 0.6 km	Bituminous surfacing of shoulders		
*iittagorig		length north of TR4038	on crests and curves	Council	5,960
		Wilson Drive, Hilltop			25,415
 Molong		Hillans Creek Bridge, 1.0 km north	**	**	20,410
		of Cumnock towards SH7	Guardrail on bridge approaches	**	6,291
Monaro		Cooma to Shannons Flat Rd		.,	5,621
Mulwaree		SH2 to Wingella - various locations	Advisory speed signs on curves		7,024
Murrumbidgee		Various council local roads		11	35
Vewcastle		Hunter St and Steel St, Newcastle	Channellised intersection	11	3,588
North Sydney		Intersection of Burton St and			
		Broughton St, Milsons Point	Channellisation	••	17,940
Nundle		Dungowan Creek Rd	Realign short section	**	11,362
Parramatta		Intersection Terry Rd and			
Ryde		Midson Rd, Eastwood	Signals – Site No. 1139	Department	225
Port Stephens		Soldiers Point Rd, 0.5 km south of			
		Soldiers Point	Realign short section	Council	21,591
Quirindi		Hill St, Quirindi	Raise level of pavement		
			to improve visibility	**	4,784
Randwick		Intersection of Malabar Rd and			
		Maroubra Rd, Rosebery	Modify existing channellisation	1.	2,990
**		Intersection of High St and	01 4 01 1 4040	D	2 402
		Botany St, Randwick	Signals — Site No. 1213	Department	3,123
**		Intersection of Frenchman Rd and	Signala Sita No. 1070		895
Richmond River		Avoca St, Randwick	Signals — Site No. 1079	Council	3,229
Shellharbour		Bridges on Ellan Gowan Rd Central Ave and	Guardrail on bridge approaches Convert cross intersection	Council	3,229
Silemiarocur		The Boulevarde, Oak Flats	to "T" junction		18,538
		Macquarie St, north of Church St, Dubbo	Signals — Site No. P265	 Department	466
Shoalhaven		Intersection Naval College Rd	Signals — Site NO. 1 203	Dopartment	400
Silvaniaven		and Hyams Beach Rd	Regrade to improve sight distance	Council	16,744
Singleton		Mirrannie Rd and	Reflective delineators on	OQUITOR	10,144
Omgreton		Carrowbrook Rd, Singleton	lightweight posts		17,940
South Sydney		Intersection of Moorehead St and	,,g.,,vo.ig.,, pooto		***
-,-,-,		Phillip St, Redfern	Signals	Department	10,607
Sutherland		Intersection of Old Princes Hwy	- -		
		and Waratah Rd, Engadine	Modify channellisation	Council	41,860
11		Various sites within shire	Remove, relocate and		
			guard roadside objects	*1	546
D		Bellingara Rd and Garnet Rd, Miranda	Channellisation		8,970
Talbragar		Westella Rd and Plain Creek Rd	Elimination of intersection		7,188
Tallaganda		Monga Lane, 0.4 km east of TR51	Realign short section	11	5,980
Tamarang		Various unclassified roads —			
		various locations	Advisory speed signs on curves	**	5,403
Timbrebongie		Weemabah Rd, 5.0 km east of Trangle	Seal shoulders and		
			clear sight obstructions		2,727
Tweed		Coraki Bridge	Guardrail on bridge approaches	••	3,827
Waugoola		Woodstock and Wyangla Rd	Realign short section	**	11,163
Wentworth		Unclassified road intersections at	Minibilla da antigara		2 204
MARINALLANDA		Pomona (2) Wentworth (1) Curiwaa (7)	Visibility improvements at intersections	• • • • • • • • • • • • • • • • • • • •	2,392
Willoughby		Artamon Rd, west of	Adjust superplayation		5,860
		Chelmsford Ave, Willoughby	Adjust superelevation	**	5,660
Minaham		Albany St, Crows Nest	Modify existing channellisation	, ,	304
Wingham		Lobban Rd, 0.7 km south of	Guardrail on bridge approaches		532
Wingecarribee		Wingham Post Office Wildes Meadow Rd, 3.5 km west of	Coardian on pridge approaches	**	734
7igocamioes		Wildes Meadow Au, 3.3 km west of	Improvement of alignment	40	4,485
Wollondilly		Thirlmere to Mittagong Rd	Realign short section	**	18,299
Wollongong		George Hanley Drive	Modify and provide additional length	**	164,466
Woollahra		Intersection of Glenmore St and	, any analysis and additional angle	"	
		Hargrave St, Paddington	Channellisation	**	3,588
Yallaroi		Intersection of North Star Valley Rd	· · · · · · · · · · · · · · · · · · ·	. "	-,
		and Yetman Rd, Boggabilla	Improvement	Council	4,784
			Total - Roads other than	Main Roads	1,005,244
				TOTAL	•
				IUIAL	4,552,18

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(i) FREEWAYS Warringsh Freeway					\$
Sydney	F1	Sydney Harbour Bridge			
•		Driver Aid Scheme	Moveable medians	Department	93,773
Sauthara Faaruur					93,773
iouthern Freeway Voilongong	F6	Materialita Bulli Tellumuk	man a sa a		
¥ .=	F6	Waterfall to Bulli Tollwork Intersection of F6 and Wollongong	Driver aid system	н	1,321
**	10	By-pass Rd, Wollongong	Signala Sitable 1100		40.000
,,	F6&	Intersection of F6 and F8, Wollongong	Signals — Site No. 1182 Channellisation associated with	"	19,570
,,	F8	more of the and the tronging	signal installation		175,721
			Signal Motalitation	***	
				•	196,612
				Total — Freeways	290,385
(II) STATE HIGHWA	YS				
Princes Highway					
Kogarah	1	Tom Uglys Bridge over	_		
	_	Georges River at Blakehurst	Extension of median approach	Department	1,470
**	1	SH1 at entrance to Southside	Roadworks associated with		
	1	Plaza, Kogarah Intersection of SH1 and	signals – Site No. 975 Roadworks associated with	*1	5,121
**	'	Lower West St. Allawah			0.400
	1	Intersection of SH1 and	signals — Site No. 1286 Roadworks associated with	*11	2,499
11	•	Torrens St. Blakehurst	signals — Site No. 1287		0.505
Marrickville	1	Intersection of SH1, Smith St and	Roadworks associated with	**	2,508
WALL TON VINE	•	Union St, Tempe	signals — Site No. 1285		4,853
11	1	Intersection with Smith St and	Signala - Olle 140. 1203	11	4,600
"	,	Union St, Tempe	Signals - Site No. 1285		10,436
Rockdale	1	Intersection of SH1, Smith St and	Oignal - Oilo 140, 1200	**	10,700
		Union St, Tempe	,,		14,537
Sutherland	1	Intersection with Old Princes		и	,
•		Highway, South Engadine	Signals - Site No. 1290	0	10,155
11	1 &	Intersection of SH1 and	•	,,	,
	227	MR227, Kirrawee	Signals - Site No. 1289	,,	16,353
Wollongong	1	Intersection of SH1 and			
		Kanahooka Rd, Dapto	Signals - Site No. 1118	**	1,907
**	1	Princes Highway, Fairy Meadow	Co-ordinated traffic control		
			signals system		60,188
11	1	Intersection of SH1 and			
		Daisy St. Fairy Meadow	Signals – Site No. 1036	••	5,258
•	1	Intersection of SH1 and	a. . a		
		Mt. Ousley Rd, Fairy Meadow	Signals — Site No. 1032	••	8,487
.,	1	Intersection of SH1 and Lysaght St, Fairy Meadow	Cinnala Disable 4004		
	1	Intersection of SH 1 and	Signals – Site No. 1031	***	4,356
47	•	Elliotts Rd, Fairy Meadow	Signals - Site No. 1035		06 040
		Cinotis rie, i any meadow	Signals — Site 140, 1033	D	26,013
Hume Highway					174,141
Ashfield	2	Intersection of SH2 and			
		Holden St, Ashfield	Signals – Site No. 1254	Department	18,978
Bankstown	2 &	Intersection of SH2 and	_		
	2090	Boronia Rd, Greenacre	Signals Site No. 1270	41	20,99 3
14	2	Intersection of SH2 and			
	•	Miller St, Bass Hill	Signals – Site No. 1040	**	29
11	2	Intersection of SH2 and	0'		
Burwood	2	Railway Workshops, Chullora Intersection of SH2 and	Signals Site No. 1269	••	64
BUIWOOG	2	Claremont Rd, Burwood	Cinnala Citable 4404		
		Claremont No. Bulwood	Signals Site No. 1161	• • •	1,555
Great Western High	way				41,619
Blacktown	5	Intersection of SH5 and			
		Reservoir Rd, Blacktown	Reconstruction of intersection	Department	2,098
Blue Mountains	5	Kidman St, Blaxland	Provision of chain-wire fencing	•	315
Penrith	5&	Intersection of SH5 and Henry St.	i i i i i i i i i i i i i i i i i i i	**	513
	2082	(West), Penrith	Signals - Site No. 1266		14,376
		•		**	. 7,010
11	5	Intersection of SH5 and Henry St, Penrith	Roadworks associated with		
"	5	Intersection of SH5 and Henry St, Penrith	Roadworks associated with signals — Site No. 1266	,,	28,131
	5	Intersection of SH5 and Henry St. Penrith			28,131 44,920

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(II) STATE HIGHW	AYS — co	ntinued			\$
Pacific Highway		1			
Gosford	10	Intersection of Mann St and	0:	Donastment	8,354
		William St, Gosford	Signals	Department	•
Kempsey	10	12.0 km south of Kempsey	Elimination of crest	**	30,448
Ku-ring-gai	10	Intersection of SH10 and	Roadworks associated with		1,822
		Grosvenor Rd, Lindfield	signals - Site No. 1184	**	1,022
	10	Intersection of SH10 and	0: 0:		2,777
		Fox Valley Rd, Turramurra	Signals – Site No. 1225	**	2,777
**	10	Intersection with Marian St and	Cinnels Citable 1109		18,461
	4.0	Buckingham St, Killara	Signals – Site No. 1108	••	10,401
11	10	Intersection of SH10 and	Signals - Site No. 1184		37,746
	40	Grosvenor St, Lindfield	Signals - Site No. 1 104	11	51,140
, ,	10	Intersection of SH10 and	Signals Site No. 1113		1,744
	40	Cecil St, Gordon	Signals - Site No. 1113	••	1,144
Lake Macquarie	10	Intersection of SH10, Sydney St and	Signala Sita No 282		27,279
	40	The Crescent, Gateshead	Signals - Site No. 383	**	27,270
11	10	Intersection of SH10 and	Cinnella Cita Na 020		486
		Ridley St, Charlestown	Signals — Site No. 929	••	434
Newcastle	10	Hunter St and Stewart Ave, Wickham	Signals - Site No. 1197	17	434
Willoughby	10	Intersection of SH10 and	Roadworks associated with		11,918
		Ashley St, Chatswood	signals - Site No. 1283	**	-
Willoughby	10	Intersection with Ashley St, Chatswood	Signals — Site No. 1283	**	19,369
					160,838
State Michigan No.	12				
State Highway No.		Interception with Janking Rd Corlingford	Signals - Site No. 1240	Department	21,271
Baulkham Hills	13	Intersection with Jenkins Rd, Carlingford	Signals — Site No. 1240	Department	21,271
Hornsby	13	Intersection of SH13 and	Cianala Cita Na 1170		20,499
	40	Boundary Rd, Pennant Hills	Signals – Site No. 1170	***	20,700
**	13	Intersection of SH13 and	Cinnels Site No. 1274		2,883
	40	Normanhurst Rd, Normanhurst	Signals — Site No. 1274 Roadworks associated with	**	2,003
11	13	11			123
	40	landa anno antina a saidh daidheann Bai	signals – Site No. 1274	71	123
Parramatta	13	Intersection with Adderton Rd,	Simple Site No. 1242		12,661
	40	Carlingford	Signals - Site No. 1242	••	12,001
	13	Intersection of SH13 and	Sinnala Sita No. 1105		1,396
	40	Louis St, Merrylands	Signals – Site No. 1195	*11	1,500
**	13	Pennant Hills Rd Ramp No. 1,	Signals Site No. 1026		
		North Parramatta	Signals — Site No. 1026	***	
					16,113
					74,946
Churt Mahman					
Sturt Highway Wagga Wagga	14	Intersection Hammond Ave. Edward St			
		and Lake Albert Rd, Wagga	Signals - Site No. 1322	Department	27,487
		•			27,487
Castlereagh High	444				
Walgett	78 18	Single lane bridge over	Temporary installation of		
waigen	10	Namoi Rver at Walgett	traffic signals	Department	5,595
		Hamorriver at Haigett	traine signals		
					5,595
			٦	lotai — State Highways	529,546
		·		•	
(iii) ORDINARY M	AIN BOAT	ne			
Bankstown	190	Intersection of Chapel St and			
Jankaluwii	150	Rickard St, Bankstown	Signals - Site No. 1203	Department	1,238
	194	Intersection of Brunker Rd and	Orginals Olle 140, 1200	Dopartmont	.,200
••	1 34	Rookwood Rd, Yagoona	Signals - Site No. 225		542
Baulkham Hills	184	Intersection of Windsor Rd, Junction Rd	Signals - Olle 140. 220	11	U-7E
Davikriatti Mili3	104	and Linton St. Baulkham Hills	Signals - Site No. 1243	***	26,238
	160	Intersection with Castle St and	arginals - One ito, 1270	**	,
41	100	Crane Rd, Castle Hill	Signals - Site No. 1174	•	3,860
		Oranio no, Cashe nin	Olympia Olte 140. 1174	. 11	5,500

City, Municipal or Shire Area	Rosd No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/77
III) ORDINARY MA	IN ROAD	S — continued			\$
Botany	171 &	Intersection of Bunnerong Rd and			
,	344	Wentworth Ave, Pagewood	Signals - Site No. 1140	Department	17
11	171 &	Intersection of Bunnerong Rd and		,	
	317	Fitzgerald Ave, Pagewood	Signals — Site No. 1263	11	10,341
17	183	Gardeners Rd, east of			
		Doncaster Ave, Kensington	Signals – Site No. P267	11	6,458
Botany	183	Intersection of Gardeners Rd and			
Randwick		Eastern Ave, Kingsford	Signals — Site No. 898		923
Canterbury Canterbury	167 &	Intersection of MR167 and	Reconstruction of signals —		
	315	MR315, Wiley Park	Site No. 64	***	553
**	167 & 2040	Intersection of Canterbury Rd and	Reconstruction of signals —	•	27/
Concord	2040	Jeffrey St, Canterbury Intersection of Concord Rd and	Site No. 855	11	370
zoncora	200	Liewellyn Rd, Rhodes	Signals — Site No. 849		28
Orummoyne	395	Intersection of Lyons Rd and	Signals — Site 110. 049	**	
5, G	000	Brent St, Russell Lea	Signals		17,123
Hornsby	373	Intersection of Northwood Rd and	Olg. al.	11	,
		Kenneth St. Northwood	Signals - Site No. 1223		3,813
	587	Intersection of George St and	0.gu5 0.10.115. 7220	"	0,011
		Bridge Rd, Hornsby	Signals - Site No. 1133	11	694
Hurstville	168	Intersection of MR168 and		,,	-
Rockdale		Croydon Rd, Hurstville	Signals – Site No. 1025	11	17,724
Ku-ring-gai	328	Intersection of Archer St and	-		-
		Boundary St, Roseville	Signals — Site No. 1207	"	5,080
_ake Macquarie	217	Intersection of Toronto Boulevarde	_		
		and Cary St, Toronto	Signals — Site No. 1116	*1	5
_iverpool	608 &	Intersection of Copeland St and			
	515	Elizabeth Drive, Liverpool	Signals - Site No. 402	11	247
Manly	164	Intersection of Balgowlah Rd			
		and Condamine St, Manly	Signals — Site No. 1053	**	13,992
Marrickville	167	New Canterbury Rd and			40.00
Mosman	164	Duntroon St, Huristone Park	Signals — Site No. 1303	*11	16,842
viosman Newcastie	164 326	Intersection with Cowles Rd, Mosman Intersection of Turton Rd and	Signals — Site No. 1224		14,21
10WC85IIG	320	Georgetown Rd, Georgetown	Signals – Site No. 1142		6,11
North Sydney	164	Intersection of Miller St and	31911als — Site 140. 1142	**	0,11
·	104	Ridge St, North Sydney	Signals — Site No. 1309		17,61
**	164	Intersection of Miller St and	Organica Charton 1000	**	,
,,		McLaren St, North Sydney	Signals - Site No. 1156	**	18,524
Parramatta	165	Intersection of Wylde Ave and		.,	· - , -
		Victoria Rd, Parramatta	Signals - Site No. 1055	**	76
,,	184	Intersection of Church St and			
		Barney St, North Parramatta	Signals - Site No. 1085	11	14,32
Randwick	171	Intersection of Bunnerong Rd and	Roadworks associated with		
		Fitzgerald Ave, Maroubra	signals Site No. 1263	"	12,83
**	171	Intersection of Bunnerong Rd and	Roadworks associated with		
		Perry St, Matraville	signals — Site No. 1262	"	2,40
Ryde	139	Intersection of Blaxland Rd and			
	100	Lovell Rd, Eastwood	Signals - Site No. 1275	, 11	20,95
	139	Intersection of Blaxland Rd and	Roadworks associated with	Onumait	10.04
	165	North Rd, East Denistone Intersection of Victoria Rd and	signals — Site No. 1276 Roadworks associated with	Council	10,04
11	105	Meriton St, Gladesville	signals — Site No. 1016	Department	12,43
	373	Intersection of Epping Rd and	Roadworks associated with	Department	12,43
••	3, 3	Pembroke St, Epping	signals — Site No. 1223		2,35
Shellharbour	522	Intersection of Shellharbour Rd	g	"	2,50
<u></u>		and Queen St, Warilla	Signals - Site No. 1364		22,39
•	522	Intersection of MR522 and	angeral with the teat	**	-2,00
**		MR611 at Warilla	Installation of traffic signals	,,	29,61
South Sydney	170	Botany Rd and		,,	
		Harcourt Parade, Rosebery	Signals - Site No. 1264	,,	15,80
1)	193 &	Intersection of Copeland St and	•		•

Credit

or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
III) ORDINARY MA	IN ROADS	— continued			\$
Sydney	165	Eastern approach to Glebe			
-,,		Island Bridge, Pyrmont	Improvement to curve	Council	17,732
Wakool		Junctions of MR319 and 25.0 km,			
Mariant		34.2 km and 60.8 km north of Barham	Pavement widening	"	17,141
Warringah		Condamine St and Old Pittwater Rd, Manly North	Signals - Site No. 1259	Department	15,284
"		Intersection with Park St and	Signals — Site 140. 1259	Department	13,204
		Golf Ave, Mona Vale	Signals - Site No. 1050	n	26,262
**		Intersection of Pittwater Rd and			
		Mactier St, Narrabeen	Signals – Site No. 1256	17	120
**		Intersection of Barrenjoey Rd and Mona Vale Rd, Mona Vale	Signals - Site No. 1049		27,350
**		Intersection of Condamine St and	Roadworks associated with	11	2.,555
		Old Pittwater Rd, North Manly	signals - Site No. 1259	Council	2,128
Warringah		Intersection of Pittwater Rd and			
		Mona Vale Rd, Mona Vale	Signals - Site No. 587	Department	24,750
**		Warringah Rd, Currie Rd and Brown St, Forestville	Signals - Site No. 1261	11	22,146
н		Intersection of Warringah and	0.92.0		22,
		Willandra Rd, Beacon Hill	Signals Site No. 800	11	23,732
H	397	Intersection of Wakehurst Parkway and			
	500	Frenchs Forest Rd	Signals — Site No. 848	**	511
11	529	Intersection of Forest Way and Adams St. Frenchs Forest	Roadworks associated with signals — Site No. 1304	Council	946
Waverley	172	Campbell Pde near Sir Thomas	signals one no. 1004	Çounon	
,		Mitchell Rd, Bondi	Median extension	**	2,364
**	339	Intersection of Old South Head Rd		_	
	005	and Dover Rd, Rose Bay	Signals Site No. 1265	Department	23,951
Wollongong	295	Intersection of Five Islands Rd and Flinders St, Port Kembla	Signals Site No. 608		906
Woollahra	172	Bondi Junction By-pass	Construction		100,000
	**				
			Total — Ord	linary Main Roads	637,294
			Total — Ord	linary Main Roads	637,294
(iv) SECONDARY	ROADS		Total — Ord	linary Main Roads	637,294
(iv) SECONDARY Auburn	ROADS 2057	Intersection of Bachell Ave and			
Auburn	2057	Church St, Lidcombe	Total — Ord Signals — Site No. 1066	linary Main Roads Department	637,294 533
• •		Church St, Lidcombe Intersection of the River Rd, Uranus Rd	Signals — Site No. 1066	Department	533
Auburn Bankstown	2057 2068	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby			
Auburn	2057	Church St, Lidcombe Intersection of the River Rd, Uranus Rd	Signals — Site No. 1066	Department	533
Auburn Bankstown	2057 2068	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with	Department 	533 9,942 31,418
Auburn Bankstown Burwood	2057 2068 2027 2021	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183	Department	533 9,942
Auburn Bankstown Burwood	2057 2068 2027	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317	Department Council	533 9,942 31,418 1,123
Auburn Bankstown Burwood Canterbury	2057 2068 2027 2021 2050	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with	Department 	533 9,942 31,418
Auburn Bankstown Burwood Canterbury	2057 2068 2027 2021	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317	Department Council	533 9,942 31,418 1,123
Auburn Bankstown Burwood Canterbury	2057 2068 2027 2021 2050	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995	Department Council Department	533 9,942 31,418 1,123 16,627
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove	2057 2068 2027 2021 2050 2043 2070	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995	Department Council Department	533 9,942 31,418 1,123 16,627
Auburn Bankstown Burwood Canterbury Ku-ring-gai	2057 2068 2027 2021 2050 2043 2070 2046 &	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708	Department Council Department	533 9,942 31,418 1,123 16,627 626 39,938
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove Leichhardt	2057 2068 2027 2021 2050 2043 2070 2046 & 2056	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130	Department Council Department	533 9,942 31,418 1,123 16,627
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove	2057 2068 2027 2021 2050 2043 2070 2046 &	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt Intersection of Brennan St and	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708	Department Council Department	533 9,942 31,418 1,123 16,627 626 39,938
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove Leichhardt	2057 2068 2027 2021 2050 2043 2070 2046 & 2056	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708 Signals — Site No. 1081	Department Council Department	533 9,942 31,418 1,123 16,627 626 39,938 22,711
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove Leichhardt	2057 2068 2027 2021 2050 2043 2070 2046 & 2056 2046	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt Intersection of Brennan St and Catherine St, Lilyfield Intersection of Wigram Rd and Minogue Crescent, Glebe	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708 Signals — Site No. 1081 Signals — Site No. 1081	Department Council Department	533 9,942 31,418 1,123 16,627 626 39,938 22,711
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove Leichhardt	2057 2068 2027 2021 2050 2043 2070 2046 & 2056 2046	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt Intersection of Brennan St and Catherine St, Lilyfield Intersection of Wigram Rd and Minogue Crescent, Glebe Intersection of Wigram Road and	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708 Signals — Site No. 1081 Signals — Site No. 1081 Signals — Site No. 862 Roadworks associated with signals — Site No. 1209	Department Council Department Council	533 9,942 31,418 1,123 16,627 626 39,938 22,711 428 2,958
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove Leichhardt	2057 2068 2027 2021 2050 2043 2070 2046 & 2056 2046 2073 2073	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt Intersection of Brennan St and Catherine St, Lilyfield Intersection of Wigram Rd and Minogue Crescent, Glebe Intersection of Wigram Road and Minogue Crescent, Glebe	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708 Signals — Site No. 1081 Signals — Site No. 1081 Signals — Site No. 862 Roadworks associated with	Department Council Department	533 9,942 31,418 1,123 16,627 626 39,938 22,711
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove Leichhardt	2057 2068 2027 2021 2050 2043 2070 2046 & 2056 2046	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt Intersection of Brennan St and Catherine St, Lilyfield Intersection of Wigram Rd and Minogue Crescent, Glebe Intersection of Wigram Road and	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708 Signals — Site No. 1081 Signals — Site No. 1081 Signals — Site No. 862 Roadworks associated with signals — Site No. 1209	Department Council Department	533 9,942 31,418 1,123 16,627 626 39,938 22,711 428 2,958
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove Leichhardt	2057 2068 2027 2021 2050 2043 2070 2046 & 2056 2046 2073 2073	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt Intersection of Brennan St and Catherine St, Lilyfield Intersection of Wigram Rd and Minogue Crescent, Glebe Intersection of the Crescent, Nelson and	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708 Signals — Site No. 1081 Signals — Site No. 1081 Signals — Site No. 1082 Roadworks associated with signals — Site No. 1209 Signals — Site No. 1209	Department Council Department Council Department Council	533 9,942 31,418 1,123 16,627 626 39,938 22,711 428 2,958 24,626 35,468
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove Leichhardt Marrickville	2057 2068 2027 2021 2050 2043 2070 2046 & 2056 2046 2073 2073 2073	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt Intersection of Brennan St and Catherine St, Lilyfield Intersection of Wigram Rd and Minogue Crescent, Glebe Intersection of Wigram Road and Minogue Crescent, Glebe Intersection of the Crescent, Nelson and William Sts, Annandale Intersection of Gleeson and Burrows Ave, Sydenham	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1183 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708 Signals — Site No. 1081 Signals — Site No. 1081 Signals — Site No. 1082 Roadworks associated with signals — Site No. 1209 Signals — Site No. 1209	Department Council Department Council Department	533 9,942 31,418 1,123 16,627 626 39,938 22,711 428 2,958
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove Leichhardt	2057 2068 2027 2021 2050 2043 2070 2046 & 2056 2046 2073 2073	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt Intersection of Brennan St and Catherine St, Lilyfield Intersection of Wigram Rd and Minogue Crescent, Glebe Intersection of Wigram Road and Minogue Crescent, Glebe Intersection of the Crescent, Nelson and William Sts, Annandale Intersection of Gleeson and Burrows Ave, Sydenham Intersection of Macpherson St and	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1318 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708 Signals — Site No. 1081 Signals — Site No. 1081 Signals — Site No. 1081 Signals — Site No. 1209 Signals — Site No. 1209 Improvements Signals — Site No. 1152	Department Council Department Council Department Council Department	533 9,942 31,418 1,123 16,627 626 39,938 22,711 428 2,958 24,626 35,468
Auburn Bankstown Burwood Canterbury Ku-ring-gai Lane Cove Leichhardt Marrickville	2057 2068 2027 2021 2050 2043 2070 2046 & 2056 2046 2073 2073 2073	Church St, Lidcombe Intersection of the River Rd, Uranus Rd and Weston St, Revesby Intersection of Railway Pde and Wentworth Rd, Burwood Intersection of Homer St and Bayview Ave, Hurstville Intersection of Belmore Rd and Hannans Rd, Riverwood Intersection of Archbold Rd and Eastern Arterial Rd, Killara Intersection of Longueville and Northwood Rds, Northwood Intersection of Lilyfield Rd and Mary St, Leichhardt Intersection of Brennan St and Catherine St, Lilyfield Intersection of Wigram Rd and Minogue Crescent, Glebe Intersection of Wigram Road and Minogue Crescent, Glebe Intersection of the Crescent, Nelson and William Sts, Annandale Intersection of Gleeson and Burrows Ave, Sydenham	Signals — Site No. 1066 Signals — Site No. 1316 Signals — Site No. 1318 Roadworks associated with signals — Site No. 1317 Signals — Site No. 995 Signals — Site No. 1130 Signals — Site No. 708 Signals — Site No. 1081 Signals — Site No. 1081 Signals — Site No. 1081 Signals — Site No. 1209 Signals — Site No. 1209 Improvements	Department Council Department Council Department Council	533 9,942 31,418 1,123 16,627 626 39,938 22,711 428 2,958 24,626 35,468

APPENDIX No. 12 — continued
TRAFFIC FACILITIES FUND

(C) Summary of Payments from State Funds on Construction and Reconstruction Works

 	Roed No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/7
iv) SECONDARY	ROADS —	continued			\$
Parramatta	2066	Intersection of O'Connell St and			
arramana	2000	Victoria Rd, Parramatta	Signals - Site No. 1105	Department	21,584
Penrith	2082	Intersection of Station St and Henry St, Penrith	Signals - Site No. 1073		680
Randwick	2074	Anzac Pde, north of	Roadworks associated with	**	00.
		Rainbow St, Kingsford	pedestrian signals	**	4,21
 Pookdala	2074	North of Rainbow St, Kensington	Pedestrian signals — Site No. 1216	11	9,63
Rockdale South Sydney	2014 2005	Harrow Rd and Watkin St, Bexley Intersection of Mitchell St and	Signals — Site No. 1314	D	19,62
,	2500	Buckland St, Alexandria	Reconstruction	Council	5,91
	2077	Intersection with Abercrombie,			
Dannah di ni ni	0007	Lawson and Ivy Sts, Chippendale	Signals - Site No. 1141	Department	19,13
Strathfield	2087	Intersection of Pemberton St and Barker Rd, Strathfield	Signals - Site No. 1163		3,46
Sutherland	2075	President Ave, west of	Signals — Site No. 1103	.,	5,40
		Park Lane, Caringbah	Signals Site No. 1190		58
Willoughby		Intersection of Mowbray Rd and			
	2093	Alpha Rd, Willoughby	Signals — Site No. 1151	**	20,52
**	2092	Intersection of Sydney St and Mowbray Rd, Willoughby	Signals - Site No. 1044		91
**	2093	Brook St to on and off ramps,	Signais — Site 140. 1044	**	•
		Warringah Freeway extension	Signals - Site No. 1337	11	17
	2093	Intersection of Brooks St and	-		
	2000	Merrenburn Ave, Naremburn	Signals — Site No. 1165	••	63
h	2093	Intersection of Penshurst St and Ashley St, Chatswood	Reglianment of courth west kerbs	Council	4,72
**	2093	Penshurst St from Ashley St to	Realignment of south-west kerbs Reconstruction of kerb and gutter	Council	4,72
		Eden St, Chatswood	and eastern shoulders	17	17,73
			Total - Sec	condary Roads	389,76
(v) ROADS OTHE	THAN MA	NIN ROADS		•	
Ashfield		Intersection of Boomerang, Waratah			
		<u> </u>			
5		and Dalhousie Sts, Haberfield	Improvements	Council	2,36
Bankstown		and Dalhousie Sts, Haberfield Intersection of Hector St and			•
Bankstown Baulkham Hills		and Dalhousie Sts, Haberfield Intersection of Hector St and Waldron Rd, Chester Hill	Improvements Signals — Site No. 209	Council Department	•
		and Dalhousie Sts, Haberfield Intersection of Hector St and			1,55
		and Dalhousie Sts, Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd	Signals — Site No. 209 Signals — Site No. 1204	Department	1,55 2, 9 4
Baulkham Hills		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford	Signals - Site No. 209	Department	1,55 2, 9 4
		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199	Department 	1,55 2,94 1,44
Baulkham Hills Blacktown		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford	Signals — Site No. 209 Signals — Site No. 1204	Department 	1,55 2,94 1,44
Baulkham Hills		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd. east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199	Department 	1,55 2,94 1,44 31
Baulkham Hills Blacktown		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247	Department " " "	1,55 2,94 1,44 31 20,12
Baulkham Hills Blacktown Canterbury		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272	Department " " "	1,55 2,94 1,44 31 20,12
Baulkham Hills Blacktown Canterbury		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals	Department	1,55 2,94 1,44 31 20,12 26,09
Baulkham Hills Blacktown Canterbury Holroyd		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247	Department	1,55 2,94 1,44 31 20,12 26,09
Baulkham Hills Blacktown		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals	Department	1,55 2,94 1,44 31 20,12 26,05 6,13
Baulkham Hills Blacktown Canterbury Holroyd Kogarah		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals Pedestrian signals Signals — Site No. 1192	Department	1,55 2,94 1,44 31 20,12 26,05 6,13
Baulkham Hills Blacktown Canterbury Holroyd Kogarah		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd. east of Barclay Rd, North Rocks Junction of Jenkin Rd. North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd. Blacktown Intersection of Burwood Rd and Leylands Pde. Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals Pedestrian signals	Department	1,55 2,94 1,44 31 20,12 26,05 6,13
Baulkham Hills Blacktown Canterbury Holroyd		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley Archer St from Ashley St to	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals Pedestrian signals Signals — Site No. 1192 Signals — Site No. 1310	Department	1,55 2,94 1,44 31 20,12 26,05 6,13 82 11,72
Baulkham Hills Blacktown Canterbury Holroyd Kogarah Ku-ring-gai		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd. east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd. Blacktown Intersection of Burwood Rd and Leylands Pde. Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals Pedestrian signals Signals — Site No. 1192	Department	1,55 2,94 1,44 31 20,12 26,05 6,13 82 11,72
Baulkham Hills Blacktown Canterbury Holroyd Kogarah Ku-ring-gai		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley Archer St from Ashley St to Nicholson St, Chatswood	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals Pedestrian signals Signals — Site No. 1192 Signals — Site No. 1310	Department	1,55 2,94 1,44 31 20,12 26,05 6,13 82 11,72
Baulkham Hills Blacktown Canterbury Holroyd Kogarah Ku-ring-gai		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley Archer St from Ashley St to Nicholson St, Chatswood Intersection of Railway Ave, Liberty and Trade Sts, Stanmore Intersection of Marrickville Rd and	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals Pedestrian signals Signals — Site No. 1192 Signals — Site No. 1310 Reconstruction of shoulders Improvement Roadworks associated with	Department	1,55 2,94 1,44 31 20,12 26,05 6,13 82 11,72 17,73
Baulkham Hills Blacktown Canterbury Holroyd Kogarah Ku-ring-gai Marrickville		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley Archer St from Ashley St to Nicholson St, Chatswood Intersection of Railway Ave, Liberty and Trade Sts, Stanmore Intersection of Marrickville Rd and Petersham Rd, Marrickville	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals Pedestrian signals Signals — Site No. 1192 Signals — Site No. 1310 Reconstruction of shoulders Improvement Roadworks associated with signals — Site No. 1153	Department	1,55 2,94 1,44 31 20,12 26,05 6,13 82 11,72 17,73
Baulkham Hills Blacktown Canterbury Holroyd Kogarah Ku-ring-gai Marrickville		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley Archer St from Ashley St to Nicholson St, Chatswood Intersection of Railway Ave, Liberty and Trade Sts, Stanmore Intersection of Ernest St and	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals — Site No. 1247 Signals — Site No. 1192 Signals — Site No. 1310 Reconstruction of shoulders Improvement Roadworks associated with signals — Site No. 1153 Roadworks associated with	Department	1,55 2,94 1,44 31 20,12 26,05 6,13 82 11,72 17,73 17,73 11,82
Baulkham Hills Blacktown Canterbury Holroyd Kogarah Ku-ring-gai Marrickville		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd. east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley Archer St from Ashley St to Nicholson St, Chatswood Intersection of Railway Ave, Liberty and Trade Sts, Stanmore Intersection of Marrickville Rd and Petersham Rd, Marrickville Intersection of Ernest St and Alexander St, Crows Nest	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals — Site No. 1247 Signals — Site No. 1192 Signals — Site No. 1192 Signals — Site No. 1310 Reconstruction of shoulders Improvement Roadworks associated with signals — Site No. 1153 Roadworks associated with signals — Site No. 1306	Department	1,55 2,94 1,44 31 20,12 26,05 6,13 82 11,72 17,73 17,73 11,82
Baulkham Hills Blacktown Canterbury Holroyd Kogarah Ku-ring-gai Marrickville		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley Archer St from Ashley St to Nicholson St, Chatswood Intersection of Railway Ave, Liberty and Trade Sts, Stanmore Intersection of Ernest St and	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals — Site No. 1247 Signals — Site No. 1192 Signals — Site No. 1310 Reconstruction of shoulders Improvement Roadworks associated with signals — Site No. 1153 Roadworks associated with	Department	1,55 2,94 1,44 31 20,12 26,05 6,13 82 11,73 17,73 17,73 11,83
Baulkham Hills Blacktown Canterbury Holroyd Kogarah Ku-ring-gai Marrickville North Sydney		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley Archer St from Ashley St to Nicholson St, Chatswood Intersection of Railway Ave, Liberty and Trade Sts, Stanmore Intersection of Marrickville Rd and Petersham Rd, Marrickville Intersection of Ernest St and Alexander St, Crows Nest George St and Smith St, Parramatta Intersection of Marsden St and	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals — Site No. 1247 Signals — Site No. 1192 Signals — Site No. 1310 Reconstruction of shoulders Improvement Roadworks associated with signals — Site No. 1153 Roadworks associated with signals — Site No. 1306 Signals — Site No. 1306 Signals — Site No. 1306 Signals — Site No. 1101	Department Council Department	1,55 2,94 1,44 31 20,12 26,05 6,13 82 11,72 17,73 17,73 11,82 6,30 22,62
Baulkham Hills Blacktown Canterbury Holroyd Kogarah Ku-ring-gai Marrickville North Sydney Parramatta		and Dalhousie Sts. Haberfield Intersection of Hector St and Waldron Rd, Chester Hill North Rocks Rd, east of Barclay Rd, North Rocks Junction of Jenkin Rd, North Rocks Rd and Oakes Rd, Carlingford Intersection of Best Rd and Fuller St, Seven Hills Intersection of Lancaster St and Newton Rd, Blacktown Intersection of Burwood Rd and Leylands Pde, Belmore Intersection of Old Prospect Rd and Ettalong Rd, Greystanes Intersection of Railway Pde and Regent St, Kogarah Intersection of Fox Valley Rd and the Comenarra Parkway, Fox Valley Archer St from Ashley St to Nicholson St, Chatswood Intersection of Railway Ave, Liberty and Trade Sts, Stanmore Intersection of Marrickville Rd and Petersham Rd, Marrickville Intersection of Ernest St and Alexander St, Crows Nest	Signals — Site No. 209 Signals — Site No. 1204 Signals — Site No. 1199 Signals — Site No. P272 Signals — Site No. 1247 Signals — Site No. 1247 Signals — Site No. 1192 Signals — Site No. 1310 Reconstruction of shoulders Improvement Roadworks associated with signals — Site No. 1153 Roadworks associated with signals — Site No. 1306 Signals — Site No. 1306	Department Council Department	2,36 1,55 2,94 1,44 31 20,12 26,05 6,13 82 11,72 17,73 17,73 11,82 18 6,30 22,62

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
(v) ROADS OTHER	THAN M	AIN ROADS — continued			\$
Parramatta		Intersection of Clyde St and	•		
		Mona St, Granville	Signals - Site No. 1325	Department	23,007
Randwick		Intersection of Carr St, Carrington Rd	-		
		and Dudley St, Randwick	Channellisation	Council	14,186
**		Intersection of Todman Ave and			
		Lenthall St, Kensington	9	11	3,546
Rockdale		Intersection of Kingsgrove Rd and	Reconstruction of signals		
		Commercial Rd, Kingsgrove	Site No. 859	Department	2,119
South Sydney		Huntley St and Euston Rd, Alexandria	Signals - Site No. 1300	,,,	17,131
.,		Intersection of Moorehead St, and	3		
,,		Phillip St, Redfern	Signals - Site No. 1212	,,	9,921
Sutherland		Intersection of Railway Crescent and	Reconstruction of signals -		·
		Box Rd, Jannali	Site No. 919	11	1,571
Sydney		Liverpool St from Elizabeth St to		.,	.,
2,4		College St, Sydney	Concrete median	Council	17,732
Warringah		Intersection of Willandra, Lee and	Control Median	000	,
rainigan		Tristram Rds. Beacon Hill	Roadworks associated with signals	. 22	5,320
		Intersection of Willandra Rd and	Hodoworks associated with signals	. ,,	5,525
D		McIntosh Rd. Beacon Hill	Reconstruction		17,732
			Neconstruction	**	17,732
11		Intersection of Hakea Avenue	Chanalliastian		14 100
		and Ashworth Ave, Belrose	Channellisation	11	14,186
Waverley		Intersection of Fletcher St and	Dana-at-uation		44 000
		Farrellys Ave, Waverley	Reconstruction	**	11,822
**		Intersection of Blair St, Wairoa Ave			
		and Wallis Pde, North Bondi	***	**	9,457
Willoughby		Intersection of Hampden Rd and			
		Herbert St, Artarmon	Signals — Site No. 1047	Department	579
		Miscellaneous, minor works, etc.	Signals reconstruction by		
			direct control — minor works	**	1,519
		11	Guardrail around roadside objects	11	3,713
•			Total — Roads other the	n Main Roads	304,830
		•		TOTAL	
	(D) Si	immary of Payments from State Funds of	on Maintenance and Minor Improvemen	•	2,151,822
(i) FREEWAYS	(5) 30	initially of a symbolic from State 1 ones of		W 1101K3	
Warringsh Freewa	y				
Sydney	F1	Sydney Harbour Bridge	Tow truck service	Department	865,433
		•			865,433
Sydney to Newcast	le Freew	AV ·			
Hornsby		- ,			
Gosford	F3	Berowra to Calga Tollwork	Tow service	Department	119,593
000,070	, 0	20.000 to 00.92 / 0.000 K			
					119,593
O					
Southern Freeway					
Wollongong	F6	Waterfall to Bulli Pass Tollwork	Cost of providing towing service	Department	100,508
	F6	17	Cost of operation of driver aid schem	ie .,	34,368
					134,876
			Tol	al — Freeways	1,119,902
(II) MAIN ROADS					
Warringah					
Ku-ring-gai	328	Roseville Bridge, Roseville	Tow truck service	Department	80,208
				- Main Roads	
					80,208

City, Municipal or Shire Area	Road No. Location of Work	Class of Construction	Constructing Authority	Amour 1976/7
HI) ROADS OTHE	R THAN MAIN ROADS			\$
bercrombie	Classified roads	Roadmarking and signposting	Council	3,09
,,	Unclassified roads		11	;
lbury	Classified roads	II.	11	29
**	Unclassified roads		**	2,73
,,	Classified roads	Signals maintenance		1,02
••	Unclassified roads	Signals maritorians		8,05
 irmidale	Classified roads	Roadmarking and signposting	11	1,16
irmidale		noadmarking and signposting	*1	•
	Unclassified roads	11	*1	1,86
shfield	Classified roads	Signals maintenance	1.1	38
41	**	Roadmarking and signposting	13	5
shford	Unclassified roads	**	11	8
luburn	Classified roads	15	11	1
allina	11	, ,	11	87
**	Unclassified roads		11	52
	Classified roads	Signals maintenance		6
lairanaid		Roadmarking and signposting	"	2,06
	Classified roads	-	**	
lankstown	Classified roads	Roadmarking and signposting	*1	3
**	Unclassified roads	n .		59
	Classified roads	Signals maintenance	**	39
Barraba	11	Roadmarking and signposting	**	23
Bathurst	"	"	**	2,85
**	Unclassified roads			5,51
••		Signals maintenance	+1	53
 Baulkham Hills	Classified roads	_	H	2
auknam miis	Classmed roads	Roadmarking and signposting	11	
11	••	Signals maintenance	11	1,89
lellingen	11	Roadmarking and signposting	41)	77
errigan		11	11	91
**	Unclassified roads	u ·	**	27
libbenluke	Classified roads	**	**	
lingara				6
•	 Unclassified roads	*1	**	
••		Oinnele maintenance	41	
)) N	Classified roads	Signals maintenance	**	5
Blacktown	**	Roadmarking and signposting	***	3
Bland		11	+1	20
llaxland		"		2,66
Blue Mountains	,	D.		7€
19	Unclassified roads		и	85
logan	Classified roads	.,		71
•	Unclassified roads	11	**	70
11 No. andro andro			**	
Bombala	Classified roads	Roadmarking and signposting	11	42
Boolooroo	u			12
Boorowa '	11	11	• •	3,6
Soree	H	17	**	1,9
	Unclassified roads			,,,,,
 Botany	Classified roads	**	***	i
Bourke	- acomo i vaug	"	*1	
	l Indonesia and and and and and and and and and an	**	•	31
**	Unclassified roads	11	**	10
lowral	Classified roads	**	*F	1,4
Brewarrina	O .	n	11	!
er e	Unclassified roads	*1	н	1
iroken Hill	Classified roads	11		1,0
	Unclassified roads		**	5
	Classified roads	Signals maintenance		1,9
urrangong		Roadmarking and signposting	"	-
	Unclassified roads	moadinarking and signposting	**	
		••	n	_
urwood	Classified roads	· ·	11	9
yron	••	11	**	1,0
amden	**	11	O.	3
ampbelltown	**	11	"	1
	Unclassified roads			1,7
anobolas	Classified roads	"	**	
		21	11	5,6
1)	Unclassified roads	n	11	3
anterbury	Classified roads	Roadmarking and signposting	**	2
**	••	Signals maintenance	11	2
•	Unclassified roads	- 11		1
		**		

APPENDIX No. 12 — continued
TRAFFIC FACILITIES FUND

(D) Summary of Payments from State Funds on Maintenance and Minor Improvement Works

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/77
(iii) ROADS OTHER	THAN M	IAIN ROADS — continued			\$
Carrathool		Classified roads	Roadmarking and signposting	Council	156
Casino		**	**	**	5,500
O		Unclassified roads	**	n	649
Central Darling		Classified roads	11	*1	1,874
Cessnock				16	505
11		Unclassified roads	11	**	112
Cobar		Classified roads	**	11	268
11		Unclassified roads	***	11	109
Coffs Harbour		Classified roads	11	10	2,425
11		Unclassified roads		11	1,242
***		Classified roads	Signals maintenance	**	856
		Unclassified roads		· ·	393
Conargo		Classified roads	Roadmarking and signposting		745
Condobolin		· ·	11	19	239
**		Unclassified roads	•	**	127
Coolah		Classified roads	11	Ħ	3,754
**		Unclassified roads	11	**	119
Coolamon		Classified roads	11	11	267
		Unclassified roads	**	*1	147
Cooma		Classified roads	11	*1	207
**		Unclassified roads		**	436
Coonabarabran		Classified roads	11	**	479
**		Unclassified roads	0	U	355
Coonamble		Classified roads	TI .	**	437
**		Unclassified roads	11	**	298
Cootamundra		Classified roads	**	••	2,889
11		Unclassified roads	n .	11	10
Copmanhurst		Classified roads	п	11	1,877
Corowa		**	**	**	204
**		Unclassified roads	**	11	179
Cowra		Classified roads	п	**	1322
**		Unclassified roads	1.5	••	84!
Crookwell		Classified roads	**	11	327
n .		Unclassified roads	TI CONTRACTOR OF THE CONTRACTO	**	100
Culcairn		Classified roads		11	573
Deniliquin		**	•	1+	153
11		Unclassified roads	11	+1	333
Denman		Classified roads	D.	1.6	129
,, •		Unclassified roads	••	11	34
Drummoyne		Classified roads		11	24
Dubbo		,,	••	**	60
21		Unclassified roads		**	83
**		Classified roads	Signals maintenance	**	3,62
D		Unclassified roads	_ "	11	4,70
Dumaresq		Classified roads	Roadmarking and signposting		1,56
Dungog		Classified roads	11	**	2,46
		Unclassified roads	· ·		1,02
Eurobodalla		Classified roads	,,	"	1,16
		Unclassified roads	**	**	11
Fairfield		Classified roads	· ·	11	1 60
Forbes		11 · · ·	***	*1	1,60
		Unclassified roads		••	17 45
Gilgandra		Classified roads	**	11	
011		Unclassified roads		*1	4,09
Gien Innes		Classified roads	**	19	
		Unclassified roads	**) 1	61 51
Gloucester		Classified roads	n	11	51
. "		Unclassified roads	TI .	11	2 24
Goobang		Classified roads	•	11	2,3 4 8
		Unclassified roads	•	D.	39
Goodradigbee		Classifiéd roads	H	н	38
Gosford					

r Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	1976/7
III) ROADS OTHE	R THAN I	MAIN ROADS — continued			\$
ioulburn		Classified roads	Roadmarking and signposting	Council	82
**		Unclassified roads	**	,,	51
irafton		Classified roads	11	17	2,74
		Unclassified roads		11	1,11
reat Lakes		Classified roads		11	5,89
iundagai		,,		**	65
aundurimba		Classified roads	Roadmarking and signposting	11	1,15
aunnedah			0	11	42
11		Unclassified roads		,,	4;
		Classified roads	Signals maintenance		20
		Unclassified roads	,,	"	21
unning		Classified roads	Roadmarking and signposting	11	1.4
ìuyra			"	,,	7
		Unclassified roads	**	"	1:
larden		Classified roads			4
		Unclassified roads		"	- T
lastings		Classified roads	· · · · · · · · · · · · · · · · · · ·	,,,	3,9
lay			11	••	5,5 5
•		Unclassified roads	"	*1	•
 lolbroak		Criciassined (Cads	••	11	
lolroyd		Classified roads	,,	"	
iornsby		Classified roads	Signala maintanana	**	5
OHISDY		 Unclassified roads	Signals maintenance	11	3
ume		Classified roads	Roadmarking and signposting	11	
		Classified roads	,,	,,,	2
urstville		41.1	Cinnala maintana a	**	
		11	Signals maintenance	ĪĪ	5
labo			Roadmarkings and signposting	n	
**		Unclassified roads	**	"	
rverell		Classified roads	71	**	1,1
0		Unclassified roads	Roadmarking and signposting	#1	7
11		Classified roads	Signals maintenance	**	
emalong			Roadmarking and signposting	*11	1,4
		Unclassified roads		u	
erilderie		Classified roads	••	**	
11		Unclassified roads	**	11	
empsey		Classified roads	11	,,	4,8
**		Unclassified roads	11	11	1
*1		Classified roads	Signals maintenance	11	2
ogarah		**	**	**	. 2
u-ring-gai		**	Roadmarking and signposting	11	1
"		Unclassified roads	Signals maintenance		1
yeamba		Classified roads	Roadmarking and signposting	**	
yogle			,,	.,	
		Unclassified roads		11	1
achlan		Classified roads		1,	į
.,		Unclassified roads		11	`
ake Macquarie		Classified roads	"	,,	9,
ane Cove		**	Signals maintenance		- 7
eeton		Unclassified roads	Roadmarking and signposting	••	
eichhardt		Classified roads		**	
			Signals maintenance		
ismore			Roadmarking and signposting	"	3.
		Unclassified roads	· · · · · ·	D	3, 4,
••		Classified roads	Signals maintenance	TI .	7,1
ithgow			Roadmarking and signposting	**	1,3
_		Unclassified roads	rivadinarking and signipositing	**	
11		Classified roads	Signata maintenan - a	**	
**	•		Signats maintenance	*1	•
**		Unclassified roads	n Donden salaine en al de ces este	**	
1		Classified roads	Roadmarking and signposting	***	
iverpool					
iverpool iverpool Plains		 Unclassified roads		11	

^{*}Credit

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amoun 1976/7
III) ROADS OTHE	R THAN N	IAIN ROADS — continued			\$
yndhurst		Classified roads	Roadmarking and signposting	Council	2,418
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Unclassified roads		"	132
 Macintyre		Classified roads			33
Aaitland		11	**		3,072
"		Unclassified roads			58
/anilla		Classified roads	11	11	74
11		Unclassified roads	11	11	47
Manly		Classified roads	11	н	293
**		Unclassified roads	**	**	7,884
**		Classified roads	Signals maintenance	11	(
Manning		Classified roads	Roadmarking and signposting	11	3,130
,,		Unclassified roads	n	**	72
Marrickville		Classified roads	•	11	59
**		**	Signals maintenance	**	1,219
11		Unclassified roads	Signals maintenance	>7	134
Merriwa		Classified roads	Roadmarking and signposting	11	473
11		Unclassified roads	11	37	49
Aitchell		Classified roads	**	**	316
Mittagong		"	ti .	*1	10
Molong		**	**	n	1,780
**		Unclassified roads	11	**	800
Moree		Classified roads	11	**	493
,,		Unclassified roads	10	1.5	400
,,		Classified roads	Signals maintenance	11	275
Mosman		**	-	***	24
Mudgee		,,	Roadmarking and signposting	11	6,434
,,		Unclassified roads	*1	***	11
34		Classified roads	Signals maintenance	11	53
Mullumbimby		D.	Roadmarking and signposting	1)	105
		Unclassified roads	11		713
Mulwaree		Classified roads		12	2,390
Mumbulla		**	. 11	19	362
Murray		**	***	11	787
Murrumbidgee		11	**	11	713
		Unclassified roads		•	234
Muswellbrook		Classified roads	***		9
Nambucca		31	11	**	1,70
10		Unclassified roads	**	11	1,18
"		Classified roads	Signals maintenance	,, .	37
		Unclassified roads		71	9
 Namoi		Classified roads	Roadmarking and signposting		50
		Unclassified roads		,,	710
 Narrabri		Classified roads	**		1,008
		Unclassified roads		,,	1,110
 Narraburra		Classified roads		**	1,660
		Unclassified roads		11	2
 Narrandera		Classified roads	,,		641
		Unclassified roads	,, D		600
Narromine		Classified roads	.,		979
•		Unclassified roads		.,	4
 Newcastle		Classified roads		• • • • • • • • • • • • • • • • • • • •	15,82
		Unclassified roads		**	11
**		Parking Advisory Committee	Signposting	Department	22
North Sydney		Classified roads	Roadmarking and signposting	Council	6,44
		Unclassified roads			9,49
 Nymboida		Classified roads			1,36
Oberon					4,68
		Unclassified roads			18
 Orange		Classified roads		**	2,22
_		Unclassified roads		,,	81
11		Classified roads	Signals maintenance		4,42
11		Unclassified roads	org man non-arrov	.,	3,28
Parkes		Classified roads	Roadmarking and signposting	1,	1,65
- aires		Ciadailieu i Cada	riousing and digriposing	11	94

[•]Credit

(III) ROADS OTHER THAN MAIN ROADS — continued Parramatta Classified roads Signals maintenance Roadmarking and signposting Signals maintenance Roadmarking and signposting Penrith Port Macquarie Unclassified roads Unclassified roads Unclassified roads Unclassified roads Unclassified Roads Signals maintenance Roadmarking and signposting Unclassified Roads Unclassified Roads Signals maintenance Roadmarking and signposting Unclassified Roads Signals maintenance Roadmarking and signposting Signals maintenance Roadmarking and signposting Unclassified Roads Signals maintenance Roadmarking and signposting Signals and maintenance Roadmarking and signposting Unclassified Roads Signals and maintenance Roadmarking and signposting Signals and maintenance Roadmarking and signposting Unclassified Roads Signals and maintenance Roadmarking and signposting Unclassified Roads Roadmarking and signposting Unclassified Roads Roadmarking and signposting Counter Signals Roadmarking Signals Roadmarking Signals Roadmarking Signals Roadmarking Signals	26' 1,21: 20' 317' 26: 66: 8,07' 3,22: 22(7' 11: 63: 3: 51 95 1,91 96 1,40 2,04
Parry Roadmarking and signposting Roadmarking Roadmarking and signposting Roadmarking	26' 1,21: 20' 317' 26: 66: 8,07' 3,22: 22(7' 11: 63: 3: 51 95 1,91 96 1,40 2,04
Parry Roadmarking and signposting Roadmarking	1,213 203 317 266 8,074 3,225 227 117 638 37 51 97 3,76 11 95 1,91 96 1,40 2,04
Perry Penrith Penrith Signals maintenance Roadmarking and signposting Port Macquarie Unclassified roads Queanbeyan Unclassified roads Quirindi Classified roads Quirindi Classified roads Quirindi Richmond River Rockdale Signals maintenance Roadmarking and signposting Rylstone Unclassified roads Quirindi Rose Ryde Signals maintenance Roadmarking and signposting Rylstone Unclassified roads Quirindi Rose Roadmarking and signposting Rylstone Unclassified roads Quirindi Rose Roadmarking and signposting Rylstone Unclassified roads Quirindi Roadmarking and signposting Rylstone Unclassified roads Quirindi Roadmarking and signposting Rylstone Unclassified roads Roadmarking and signposting Rylstone Unclassified roads Roadmarking and signposting R	20; 31; 26; 66; 8,07; 3,22; 7; 11; 63; 51; 9 3,76; 1; 95; 5,5; 1,91; 96; 1,40; 2,04; 32; 27;
Port Macquarie Unclassified roads Port Stephens Classified roads Quenthagen Unclassified roads Unclassified roads Unclassified roads Unclassified roads Quirindi Classified roads Rendwick Richmond River Rockdale Ryde Signals maintenance Ryde Rylstone Unclassified roads Unclassified roads Classified roads Classified roads Classified roads Unclassified roads Classified roads Unclassified roads Severn Classified roads Signals and maintenance Rylstone Unclassified roads Signals and maintenance Roadmarking and signposting Unclassified roads Signals and maintenance Roadmarking and signposting Classified roads Signals maintenance Roadmarking and signposting Unclassified roads Classified roads Roadmarking and signposting Unclassified roads City area Tow service Depar Talbragar Classified roads Classified roads Classified roads Tallaganda Classified roads Classified roads Tamarang Unclassified roads Tamarang Unclassified roads	317 263 663 8,074 3,225 73 117 633 31 51 95 3,76 11 95 5 1,91 96 1,40 2,04
Port Macquarie Unclassified roads Unclassified roads Classified roads Unclassified roads	26: 66: 8,07: 3,22: 22: 7: 11: 63: 3: 51: 95: 5: 1,91: 96: 1,40: 2,04: 32: 27:
Port Macquarie Unclassified roads Unclassified road	66: 8,07: 3,22: 22: 7: 11: 63: 3: 51: 95: 1,91: 96: 1,40: 2,04: 32: 27
Cort Stephens Classified roads Currindi Classified roads Classified roads Corrindi Corrind	8,074 3,222 73 113 63 33 51 95 3,76 11 95 5 1,91 96 1,40 2,04
Duerindi Unclassified roads Duirindi Classified roads Duirindi Classified roads Alandwick Alichmond River Alockdale Signals maintenance Rockdale Unclassified roads Signals maintenance Rockdale Unclassified roads Scone Classified roads Unclassified roads Unclassified roads Shellharbour Shoelharbour Shoelhaven Singleton Unclassified roads Singleton Unclassified roads Signals and maintenance Roadmarking and signposting Unclassified roads South Sydney Classified roads Strathfield Sutherland Unclassified roads Signals maintenance Roadmarking and signposting Unclassified roads Strathfield Sutherland Unclassified roads Signals maintenance Roadmarking and signposting Unclassified roads Signals maintenance Roadmarking and signposting Unclassified roads Signals maintenance Roadmarking and signposting Unclassified roads Talbragar Unclassified roads Talbragar Unclassified roads Tallaganda Classified roads Tallaganda Classified roads Tamworth Classified roads	3,22: 22: 7: 11: 63: 3: 51: 9 3,76: 1: 95: 1,91: 96: 1,40: 2,04: 32: 27
Unclassified roads Quirindi Qu	22: 7: 11: 63: 3: 51: 9 3,76: 1: 95: 1,91: 96: 1,40: 2,04: 32: 27
Quirindi Classified roads Randwick	7: 11: 63: 3: 51: 9: 3,76: 1: 95: 5: 1,91: 96: 1,40: 2,04: 32:
Randwick Richmond River Rockdale Signals maintenance Rockdale Signals maintenance Rockdale Ro	11: 63: 3: 51: 9: 3,76: 1: 95: 5: 1,91: 96: 1,40: 2,04: 32: 27:
Richmond River Rockdale Rockdale Rockdale Rockdale Rockdale Rylstone Rylstone Unclassified roads Locassified roads Locassified roads Locassified roads Rockdale Rockd	63 3: 51 9 3,76 1: 95 5 1,91 96 1,40 2,04
Rockdale Ryde Signals maintenance Ryde Roadmarking and signposting Rylstone Unclassified roads Scone Classified roads Severn Classified roads Shellharbour Shoalhaven Singleton Unclassified roads South Sydney Classified roads Strathfield Sutherland Stydney Unclassified roads Signals maintenance Sydney Strathfield Sutherland Signals Signals maintenance Signals mai	3: 51: 9 3,76: 1: 95: 5: 1,91: 96: 1,40: 2,04: 32: 27:
Ryde Signals maintenance Roadmarking and signposting	51' 9 3,76' 1' 95 5 1,91' 96 1,40 2,04
Ryde Rylstone Unclassified roads Shellharbour Unclassified roads	9 3,76 10 95 5 1,91 96 1,40 2,04 32
Rylstone Unclassified roads Scone Classified roads Severn Classified roads Shellharbour Shoalhaven Singleton Unclassified roads Roadmarking and signposting Classified roads Signals and maintenance Snowy River Roadmarking and signposting Unclassified roads South Sydney Classified roads Strathfield Sutherland Signals Roadmarking and signposting South Sydney Classified roads Signals maintenance Sydney Roadmarking and signposting Signals maintenance City area Tow service Depar Talbragar Classified roads Tamarang Unclassified roads Tamarang Unclassified roads Tamarang Unclassified roads Tamarang Unclassified roads	3,76 1: 95 5 1,91 96 1,40 2,04 32
Unclassified roads Severn Classified roads Severn Classified roads Severn Classified roads Shoelharbour Shoelharbour Shoelhaven Singleton Unclassified roads Signals and maintenance Roadmarking and signposting Unclassified roads Signals and maintenance Roadmarking and signposting Unclassified roads Signals and maintenance Roadmarking and signposting Strathfield Strathfield Sutherland Sutherland Sutherland Sutherland Signals maintenance Roadmarking and signposting Signals maintenance Signals maintenance Signals maintenance Tow service Depar Talbragar Classified roads Tallaganda Classified roads Unclassified roads	11 95 5 1,91 96 1,40 2,04 32
Scone Classified roads Unclassified roads Classified roads Roadmarking and signposting Classified roads Signals and maintenance Roadmarking and signposting Unclassified roads Signals and maintenance Roadmarking and signposting Unclassified roads Signals maintenance Sydney Classified roads Signals maintenance Roadmarking and signposting Unclassified roads Signals maintenance Sydney Unclassified roads Signals maintenance Depart Talbragar Classified roads Roadmarking and signposting Unclassified roads Roadmarking and signposting Council Unclassified roads Roadmarking and signposting Unclassified roads Roadmarking and signposting Unclassified roads Roadmarking and signposting Council Unclassified roads Roadmarking and signposting Council Unclassified roads Roadmarking and signposting Unclassified roads Roadmarking and signposting Council Unclassified Roads Roadmarking and Signposting Roadmarking and Signposting Roadmarking R	95 5 1,91 96 1,40 2,04 32
Severn Classified roads Shellharbour Shoalhaven Singleton Unclassified roads Snowy River Unclassified roads Strathfield Sutherland Sutherland Sutherland City area Tallbragar Classified roads	5 1,91 96 1,40 2,04 32
Severn Classified roads Shellharbour Shoalhaven Singleton Unclassified roads Roadmarking and signposting Classified roads Signals and maintenance Snowy River Unclassified roads Unclassified roads South Sydney Classified roads Strathfield Sutherland Signals maintenance Sydney Signals maintenance Signals maintenance Sydney City area Signals maintenance Signals maintenance City area Talbragar Classified roads Unclassified roads Unclassified roads Tallaganda Unclassified roads Unclassified roads Unclassified roads Unclassified roads Talmarang Unclassified roads .	1,91 96 1,40 2,04 32 27
Shellharbour Shoalhaven Singleton Unclassified roads Classified roads Signals and maintenance Roadmarking and signposting Unclassified roads South Sydney Classified roads Strathfield Sutherland Sutherland Sutherland City area City area Talbragar Classified roads Tallaganda Tamarang Unclassified roads	96 1,40 2,04 32 27
Shoalhaven Singleton Unclassified roads Classified roads Signals and maintenance Roadmarking and signposting Unclassified roads South Sydney Classified roads Strathfield Sutherland Sutherland Sutherland Classified roads Signals maintenance Sydney Roadmarking and signposting Signals maintenance Signals maintenance Signals maintenance Signals maintenance Tow service Depar Talbragar Classified roads Unclassified roads Unclassified roads Tallaganda Classified roads Tamarang Unclassified roads Tamarang Unclassified roads Tamarang Unclassified roads Tamarang Unclassified roads	1,40 2,04 32 27
Singleton Unclassified roads Classified roads Signals and maintenance Roadmarking and signposting Unclassified roads South Sydney Classified roads Strathfield Sutherland Sutherland Unclassified roads Signals maintenance City area Tow service Depart Talbragar Classified roads Unclassified r	2,04 32 27
Unclassified roads Signals and maintenance Snowy River Roadmarking and signposting Unclassified roads Signals and maintenance Roadmarking and signposting Unclassified roads Strathfield Sutherland Signals maintenance Roadmarking and signposting Signals maintenance Si	32 27
Classified roads Signals and maintenance Roadmarking and signposting Unclassified roads Strathfield Strathfield Sutherland Signals maintenance Sig	27
Snowy River Unclassified roads U	
Unclassified roads South Sydney Strathfield Sutherland Sutherland Sydney	4 40
South Sydney Strathfield Sutherland Sutherland Sydney Sydn	1,60
Strathfield	3
Sutherland Signals maintenance Sydney Roadmarking and signposting Lunclassified roads Signals maintenance Signals maintenance Signals maintenance City area Tow service Depart Talbragar Classified roads Roadmarking and signposting Councillation Unclassified roads Tallaganda Classified roads Tamarang Unclassified roads Unclassified roads Tamworth Classified roads	6
Sydney Boadmarking and signposting Unclassified roads Signals maintenance Signals maintenance Signals maintenance Signals maintenance Depart Talbragar Classified roads Roadmarking and signposting Councillation Unclassified roads	4
Sydney Unclassified roads Signals maintenance Signals maintenance City area Tow service Depart Unclassified roads Roadmarking and signposting Council. Unclassified roads	2
Sydney Unclassified roads Signals maintenance Signals maintenance City area Tow service Depart Unclassified roads Roadmarking and signposting Council Unclassified roads	1,86
Unclassified roads Signals maintenance Signals maintenance City area Tow service Departal roads Roadmarking and signposting Councillation of the councillatio	1,10
City area Tow service Depart Roadmarking and signposting Council and Classified roads Roadmarking and signposting Council and Classified roads	26,98
City area Tow service Depart Talbragar Classified roads Roadmarking and signposting Council Counci	36,75
Talbragar Classified roads Roadmarking and signposting Counciliant of the counciliant of	•
Unclassified roads	
Tallaganda Classified roads ,, , , , , , , , , , , , , , , , , ,	19
Tamarang Unclassified roads	2,05
Unclassified roads	43
Tamworth Classified roads ,,	26
	2,64
Unclassified roads	1,73
Classified roads Signale maintenance	11
Unclassified roads	74
Targe Classified roads Roadmarking and signmenting	2,04
Line legified reads	85
Classified roads Signale maintanance	2
Temora Classified roads Boadmarking and signosting	2,24
I Include if indicate and in the indicate and indicate and in the indicate and	38
Tenterfield Classified roads	93
Included to the	19
Terania Classified roads	77
Timbrahangia	70
I Inclassified roads	35
Tintenher Classified roads	5
Tumberumba Unclassified roads	5
Tumut Classified roads	39
Linclandified roads	4
Classified rando Signals maintenance	
Classified roads Signals maintenance ,	5
Turon Unclassified roads Roadmarking and signposting .,	2 02
Tweed Classified roads ,, ,,	3,93
" Unclassified roads " "	1,39
Ulmarra Classified roads ,,	5

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	1976/7
HI) ROADS OTHE	RTHAN	MAIN ROADS — continued	-		\$
Iralia		Classified roads	Roadmarking and signposting	Council	287
		Unclassified roads			165
Vade		Classified roads	,,	••	530
**		Unclassified roads	••	15	517
Vagga Wagga		Classified roads		11	10,717
**		Unclassified roads		11	4,718
54		Classified roads	Signals maintenance	1.9	4,423
**		Unclassified roads	.,	0	5,90
Vakool		Classified roads	Roadmarking and signposting	Council	40
u Malaha		Unclassified roads	,,	***	43 59
Valcha		Classified roads Unclassified roads	11	11	69
valgett		Classified roads	***	**	5,25
vaigott		Unclassified roads	**	**	3,23
varren		Classified roads		*1	8
		Unclassified roads	**	**	2
 Varringah		Classified roads	••	***	19
Vaugoola		"	••	"	2,43
		Unclassified roads		**	43
 Vaverley		Classified roads	,,	,,	14
		Unclassified roads			1,91
**		Classified roads	Signals maintenance	11	7
Veddin		11	Roadmarking and signposting	**	7,14
11		Unclassified roads	9	**	29
Vellington		Classified roads		**	5,45
***		Unclassified roads		**	78
Ventworth		10		11	13
Villoughby		Classified roads		11	1
Vindsor		**	3	**	1,69
Vingecarribee			**	**	10
Vollondilly		.,	,,	n	1,16
"		Unclassified roads		0	18
"			Signals maintenance	11	2
Vollongong		Classified roads	Roadmarking and signposting	10	6,80
••		Unclassified roads		••	18
		Classified roads	Signals maintenance	**	1,85
Voollahra			Roadmarking and signposting	*11	29 2,70
н .		Unclassified roads	Signalo maintanana	**	2,70
Muona		Classified roads	Signals maintenance	*11	
∕Vyong Yallaroi		Classified roads	Roadmarking and signposting	11	1,08 92
		 Unclassified roads	"	**	50
 Yarrowlumla		Classified roads	. "	11	2,34
Yass			. "	"	2,54
		,, Unclassified roads	**		13
Young		Classified roads		,,	82
,,		Unclassified roads	"	,,	46
**			"		479,33
					123
DIVISIONS Metropolitan		Classified roads	Roadmarking and signposting	Department	1,092,91
"		Unclassified roads		,,	326,81
**		Classified roads	Signals maintenance	11	1,355,78
		Unclassified roads	- "	11	93,17
llawarra		Classified roads	Roadmarking and signposting	**	119,0
**		Unclassified roads	"	11	35,0
.,		Classified roads	Signals maintenance	1)	34,1
**		Unclassified roads		***	1,7
Parramatta		Classified roads	Roadmarking and signposting		1,070,2
**		Unclassified roads		11	37,8
		Classified roads	Signals maintenance	**	441,3
		Unclassified roads	**		7,9

City, Municipel or Shire Area	Road No.	Location of Work		onstructing uthority	Amount 1976/77
DIVISIONS - continu	neq				\$
lunter Valley		Classified roads	Roadmarking and signposting De	partment	407.634
		Unclassified roads			79,678
"		Classified roads	Signals maintenance	,,	133,590
		Unclassified roads			17,511
lorth Western		Classified roads	Roadmarking and signposting	11	146,815
,,,		Unclassified roads		••	168
**		Classified roads	Signals maintenance	11	118
Jpper Northern		Classified roads	Roadmarking and signposting		37,727
North Eastern		Classified roads	9	**	215,002
11		Unclassified roads	D		1,284
,,		Classified roads	Signals maintenance	,,	812
11		Unclassified roads	- 11	**	371
Southern		Classified roads	Roadmarking and signposting		77,678
		Unclassified roads			11,346
		Classified roads	Signals maintenance	**	654
South Coast		Classified roads	Roadmarking and signposting		175,802
**		Unclassified roads		,,	14,899
South Western		Classified roads	**		168,339
**		Unclassified roads	11	*11	21
Central Murray		Classified roads	"	11	117,599
Central Western		Classified roads		**	314,904
.,		*1	Signals maintenance	,,	654
		Unclassified roads	11	,,	654
Murray Darling		Classified roads	Roadmarking and signposting	,,,	65,482
		Unclassified roads	D.	**	378
Central Northern		Classified roads	0	**	116,936
Lower North Coast		Classified roads	19	**	109,598
,,		Unclassified roads	11	**	1,580
			Signals maintenance	11	9
Central Mountains		Classified roads	Roadmarking and signposting		24,995
ii.		Unclassified roads	· ·		1,367
**		Classified roads	Signals maintenance	D	234
**		Unclassified roads		,,	558
Inner Freeways		Classified roads	Roadmarking and signposting	**	6,060
Traffic Signals					
Workshop, Burwo	od	Classified roads	11	••	40,240
**		Unclassified roads		**	39,523
**		Classified roads	Signals maintenance	**	268,829
10		Classified roads	"	••	236,118
		Ex Department of Motor Transport radio	Removal, relocation and operations	,,	6,361
		Development Group,	Supply of materials		
		Brisbane St, Sydney	for signals maintenance	**	339,164
			Operating co-ordinated traffic signals	10	162,615
		Miscellaneous, minor works, etc.	Administration expenses	**	337,578
		Engineering administration		••	826,175
		General administration		11	377,334
		Consideration and the second s		, et	670,496
					10,171,002
•			Total — Roads other than M	ain Roads	10,650,341
				TOTAL	11,850,45

City, Municipal or Shire Area	Road No.	Location of Work	Class of Construction	Constructing Authority	Amount 1976/77
SUMMARY				\$	\$
A. Construction a	and mainte	enance of national highways		729,737 ⁽¹⁾	
B. Minor traffic er	ngineering	and road safety improvements		4,552,188	
C. Construction a	and recons	struction ex State Funds		2,151,822	
D. Maintenance	and minor	improvements ex State Funds		11,850,451	19,284,198
_		otor Transport organisation to Depar			36,251 200,916
Total as shown in r	eceipts an	d payments statement — Appendix N	No. 1(E)		19,521,365
.1) Note: Expenditu	re on Natio	onal Roads was financed as follows -	_		
Grants un	nder Natio	nal Roads Act, 1974 — Schedule 1 -	- Construction	125,612	
		- Schedule 2 -	- Maintenance	529,191	654,803
State Fun	ds .				74,934
					729,737

APPENDIX No. 13 PROCLAMATION OF MAIN ROADS 1976-1977

During the year the following Main Roads or amendments to existing Main Roads were Proclaimed

Road No.	City, Municipal or Shire Area	Date of Proclamation	Description	Kilometres
4	Imlay	12.11.76	By Government Gazette No. 145 of 12 November 1976 the proclamation of SH4 (Monaro Highway) was amended to exclude that section from Tathra Wharf to the north eastern boundary of Tathra Street, Tathra.	1.25
168	Rockdale Hurstville	1.4.77	By Government Gazette No. 32 of 1 April 1977 the proclamation of MR168 was amended to deproclaim that part from MR508 at Peakhurst to Lugarno via Forest Road and proclaim the road from the eastern abutment of the bridge over Cooks River Deviation Channel at Sydney Airport via that bridge, Marsh Street, West Botany Street and Wickham Street to the Princes Highway (SH1) at Arncliffe, thence from the Princes Highway at Arncliffe via	4.16
393	Sutherland	17.6.77	Forest Road to Henry Lawson Drive (MR508) at Peakhurst. By Government Gazette No. 64 of 17 June 1977 the proclamation of MR393 was amended to include Koorabin	12.38
518	Port Stephens	2.7.76	Street and part of Warabin and Yanagan Streets, Waterfall. By Government Gazette No. 88 of 2 July 1976 the proclamation of MR518 was amended to exclude that part from a point 3.6 km north of Medowie to Italia and proclaim the road from the Stockton-Nelson Bay Road (MR108) near Williamtown, via Medowie, to the Pacific Highway (SH10)	0.55
545	Ballina	2.7.76	near Euwylong. By Government Gazette No. 88 of 2 July 1976 the proclamation of MR545 was amended to exclude that part from SH10 (Pacific Highway) via Bentinck St to Missingham Bridge and proclaim the road from the intersection of River Street and Cherry Street (Pacific Highway — SH10) Ballina, via River Street, thence adjacent to the training wall along Richmond River fronting Reserve No. 82164 for Public Recreation, thence via Missingham Bridge over North Creek to the lighthouse at East Ballina.	16.61 4.39

APPENDIX No. 14 DECLARATION OF SECONDARY ROADS

During the year the following Secondary Roads were Declared or Rescinded

Road No.	City, Municipal or Shire Area	Date of Declaration	Description	Kilometres
2076	Sutherland	1 4.77	By Government Gazette No. 32 of 1 April 1977 the route of SR2076 as published in Government Gazette No. 70 of 15 July 1966 was rescinded and the following route declared. From the intersection of Acacia Road and Princes Highway (SH1) at Kirrawee, thence generally westerly and	
			southerly via the old route of Princes Highway through Sutherland to the Princes Highway (SH1) at Loftus.	2.68

APPENDIX No. 15 DISTANCES OF FREEWAYS, STATE HIGHWAYS, TRUNK ROADS, ORDINARY MAIN ROADS, SECONDARY ROADS, TOURIST ROADS AND DEVELOPMENTAL ROADS IN NEW SOUTH WALES FOR THE FIVE YEARS ENDED 30 JUNE 1977

Road Class		_	At 30 June		
	1973	1974	1975	1976	1977
	miles	km	km	km	krr
County of Cumberland Area —					
Freeways	25	5 8	86	86	86
State Highways	194	313	314	314	314
Ordinary Main Roads	671	1,082	1,085	1,087	1,087
Total all Main Roads and Freeways	890	1,453	1,485	1,487	1,487
Secondary Roads	180	291	287	285	287
Tourist Roads	53	85	85	85	85
Developmental Roads	14	30	30	30	30
Total ell Classified Roads	1,137	1,859	1,887	1,887	1,889
Country Area —					
Freeways	14	26	28	28	41
State Highways	6,333	10,188	10,178	10,162	10,164
Trunk Roads	4,374	7,037	7,081	7,080	7,074
Ordinary Main Roads	10,800	17,379	17,230	17,230	17,218
Total all Main Roads and Freeways	21,521	34,630	34,517	34,500	34,497
Tourist Roads	193	320	314	310	318
Developmental Roads	2,407	3,631	3,588	3,578	3,588
Total all Classified Roads	24,121	38,581	38,419	38,388	38,403
Total for whole State -					
Freeways	39	84	114	114	127
State Highways	6,527	10,501	10,492	10,476	10,478
Trunk Roads	4,374	7,037	7,081	7,080	7,074
Ordinary Main Roads	11,471	18,461	18,316	18,317	18,305
Total all Main Roads and Freeways	22,411	36,083	36,003	35,987	35,984
Secondary Roads	180	291	287	285	287
Tourist Roads	246	405	399	395	403
Developmental Roads	2,421	3,661	3,618	3,608	3,616
Total all Classified Roads*	25,258	40,440	40,307	40.275	40,292

^{*}In addition, the Department is responsible for the full cost of works on unclassified roads in the unincorporated area in the western part of the State totalling 2,398 km and is also responsible for a length of 82 km in the incorporated area.

APPENDIX No. 16 DISTRIBUTION BETWEEN THE DEPARTMENT AND COUNCILS OF RESPONSIBILITY FOR CARE AND CONTROL OF ROADS AT 30 JUNE 1977 IN ACCORDANCE WITH THE PROVISIONS OF THE MAIN ROADS ACT, 1924

	County of		
	Cumberland*	Country	Total
т .	km	<u>km</u>	km
Roads which are the responsibility of the Department of Main Roads —		•	
(a) Where work was carried out by the Department -			
Freeways	102	25	127
State Highways	297	8,652	8,949
Trunk and Ordinary Main Roads in the Eastern and Central			
Divisions other than the County of Cumberland	-	990	990
Ordinary Main Roads in the County of Cumberland	614	_	614
Unincorported area of the Western Division —			
Trunk and Ordinary Main Roads	_	748	748
Unclassified Roads	-	2,398	2,398
(b) Where work was carried out for the Department by Councils -			
State Highways		1,529	1,529
Ordinary Main Roads in the County of Cumberland	778	· -	778
2. Roads which are the responsibility of Councils assisted by the Department			
of Main Roads —		•	
 Trunk and Ordinary Main Roads other than in the 			
County of Cumberland	, 	22,250	22,250
	1,791	36,592	38,383

^{*} County of Cumberland refers to the area defined in Part IV Section 9 of the Main Roads Act, 1924.