Province of British Columbia

MINISTRY OF TRANSPORTATION AND HIGHWAYS

REPORT

FOR THE FISCAL YEAR

1980/81

ISSN 0706-1897

1981

To the Honourable HENRY P. BELL-IRVING, D.S.O., O.B.E., E.D.,
Lieutenant Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

Herewith I respectfully submit the Annual Report of the Ministry of Transportation and Highways for the fiscal year ended March 31, 1981 in compliance with the provisions of the *Ministry of Transportation and Highways Act*.

ALEX. V. FRASER
Minister of Transportation and Highways

Office of the Minister of
Transportation and Highways
Parliament Buildings, July 31, 1981

The Honourable Alex. V. Fraser,
Minister of Transportation and Highways

Victoria, B.C., August 8, 1

The Honourable Alex. V. Fraser,
Minister of Transportation
and Highways,
Parliament Buildings,
Victoria, B.C.

Sir:

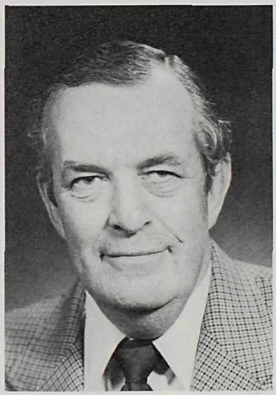
I am pleased and honoured to present the Annual Report of this Ministry for the fiscal ended March 31st, 1981.

General comments on the year's activity follow with identification of senior officials.

The main body of the report identifies the various branches and their directors with bri reports and statistics.

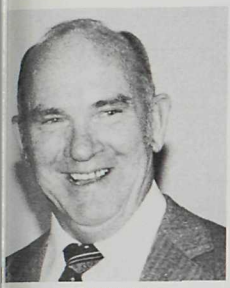
Respectfully submitted

R. G. HARVEY
Deputy Minister



R. G. HARVEY

ASSISTANT DEPUTY MINISTERS



A. E. RHODES
ADMINISTRATION

T. R. JOHNSON
HIGHWAYS

R. D. A. KASIANCHUK
TRANSPORT POLICY

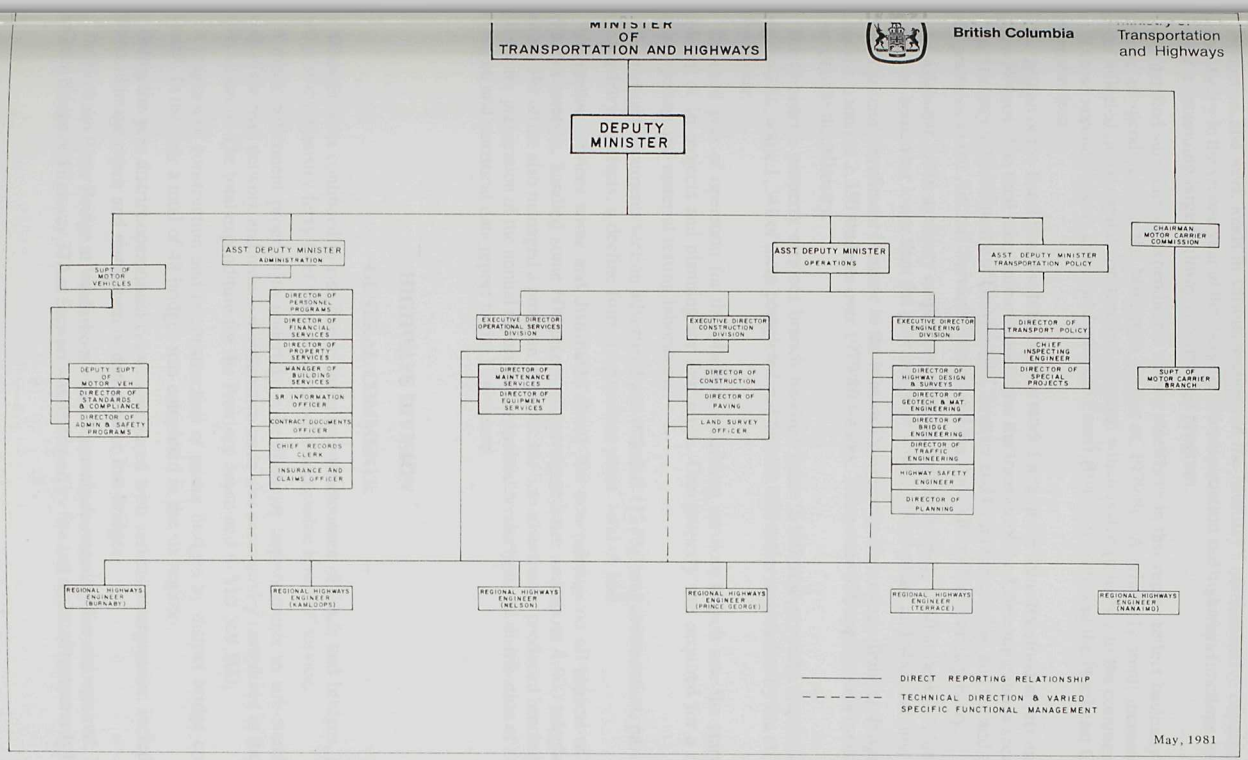
R. G. WHITLOCK
MOTOR VEHICLES

EXECUTIVE DIRECTORS

. G. WHITE
NSTRUCTION

P. J. CARR
OPERATIONS

M. G. ELSTON
ENGINEERING


MINISTER OF TRANSPORTATION AND HIGHWAYS
British Columbia
Transportation and Highways
DEPUTY MINISTER
SUPT. OF MOTOR VEHICLES
DEPUTY SUPT. OF MOTOR VEH.
DIRECTOR OF STANDARDS & COMPLIANCE
DIRECTOR OF ADMIN & SAFETY PROGRAMS
ASST. DEPUTY MINISTER ADMINISTRATION
DIRECTOR OF PERSONNEL PROGRAMS
DIRECTOR OF FINANCIAL SERVICES
DIRECTOR OF COMPUTER SERVICES
MANAGER OF BUILDING SERVICES
SR. INFORMATION OFFICER
CONTRACT DOCUMENTS OFFICER
CHIEF RECORDS CLERK
INSURANCE AND CLAIMS OFFICER
ASST. DEPUTY MINISTER OPERATIONS
EXECUTIVE DIRECTOR OPERATIONAL SERVICES DIVISION
DIRECTOR OF MAINTENANCE SERVICES
DIRECTOR OF EQUIPMENT SERVICES
EXECUTIVE DIRECTOR CONSTRUCTION DIVISION
DIRECTOR OF CONSTRUCTION
DIRECTOR OF PAVING
LAND SURVEY OFFICER
EXECUTIVE DIRECTOR ENGINEERING DIVISION
DIRECTOR OF HIGHWAY DESIGN & SURVEYS
DIRECTOR OF GEOTECH & MAT ENGINEERING
DIRECTOR OF BRIDGE ENGINEERING
DIRECTOR OF TRAFFIC ENGINEERING
HIGHWAY SAFETY ENGINEER
DIRECTOR OF PLANNING
ASST. DEPUTY MINISTER TRANSPORTATION POLICY
DIRECTOR OF TRANSPORT POLICY
CHIEF INSPECTING ENGINEER
DIRECTOR OF SPECIAL PROJECTS
CHAIRMAN MOTOR CARRIER COMMISSION
SUPT. OF MOTOR CARRIER BRANCH
REGIONAL HIGHWAYS ENGINEER (BURNABY)
REGIONAL HIGHWAYS ENGINEER (KAMLOOPS)
REGIONAL HIGHWAYS ENGINEER (NELSON)
REGIONAL HIGHWAYS ENGINEER (PRINCE GEORGE)
REGIONAL HIGHWAYS ENGINEER (TERRACE)
REGIONAL HIGHWAYS ENGINEER (NANAIMO)
DIRECT REPORTING RELATIONSHIP
TECHNICAL DIRECTION & VARIED SPECIFIC FUNCTIONAL MANAGEMENT
May, 1981

ADMINISTRATION DIVISION

GENERAL COMMENTS:

Production and work loads in various sections of the Ministry's administrative department tinued heavy in the second year of the merging of transportation and highways functions and as sult of a continuing large highway construction program.

The detailed summary of expenditures shown elsewhere in this report reflect basically the e level of spending as in the Ministry's budget of 1979/80. A relatively small increase is ever reflected in the capital construction program which is due primarily to the commence- it of those special projects associated with the Fraser River Crossing and the Northeast Coal elopment area.

By the end of the fiscal year the total regular work force in the Ministry stood at just under 00 employees. The total takes into consideration the transfer of the Communications section the Ministry to the Ministry of Universities, Science and Communications, and the addition ew positions to the Aircraft Services Branch and the Port Albion-Fort Langley Ferry.

An additional 3,086 auxiliary employees were on staff in August, 1980 at peak, including students, somewhat lower than the previous year with 3,200 regulars and 400 students.

A 16 per cent enrollment increase in the Ministry's Highway Technology Training Program noted to a total of 2,350 students over 1979/80 figures. There were 950 applications for other rses outside the Ministry.

The Ministry's property services branch handled some 2,100 new property acquisitions ng 1980/81, some 1,341 of them completed and the rest still under negotiation by the end of fiscal year.

The third year of operation for the Ministry's building services branch saw the start or pletion of 16 projects and planning for four more. One property was acquired for a new bined paving and material testing laboratory.

The contract documents section advertised and awarded 112 highway construction, paving, ge and ferry contracts, a decline from the previous years' total of 160.

Information services wrote and distributed about 300 new releases on all aspects of the istry's operation, handled some 600 pieces of correspondence and about 4,000 telephone iries. The office also managed a program of public service advertising, produced brochures, sted in the preparation of the annual report and organized production and distribution of a 90- e branch and statistical data report to the Legislature.

HIGHWAYS DIVISION

GENERAL COMMENTS:

Although costs continued to rise due to inflation, maintenance of roads and bridges, and ration of the Ministry ferry fleet were maintained to acceptable levels of service.

A minor betterment program to undertake miscellaneous improvements to sub-standard ions of the road network and reduce maintenance costs was successfully completed in the 38 way districts. The total expenditure for the Province amounted to $10,309,000.

A program of construction and re-construction of minor bridges by district bridge crews tinued. In the year a total of 48 bridges was completed in the six regions.

During the year district operational crews were faced with various emergencies, including l flood damage repair and restoration of damaged or lost bridges.

The Nechako River Bridge at Vanderhoof was extensively damaged by fire and repaired. The r Creek Bridge on Highway 37A at Stewart was destroyed by fire and replaced temporarily by a

Bailey bridge. The collapse of the Rattlesnake Bridge on Highway 8 near Spences Bridge s caused by a vehicle accident and was replaced temporarily by a Bailey bridge.

In late December heavy rainfall and rapid snow melt resulted in flood conditions wh extensive damage, including road and bridge washouts, in the Lower Mainland and Vancou r Island Districts, Bella Coola area in the Williams Lake District and as well in the Merritt d Lillooet Highways Districts. The total cost of flood damage repairs was in the order of sev n million dollars.

The prompt and efficient manner in which repairs were completed in these emergencies wh the least possible inconvenience to the travelling public is a credit to the district operational cr s in the respective regions.

ENGINEERING

In highway design emphasis continued on projects on the Terrace-Rupert, Coquiha , Revelstoke-Mica, Prince George-Dawson Creek, Victoria-Campbell River, Kitwanga-Meziad , Penticton-Vernon and Chetwynd-Tumbler Ridge sections. A start was made on the Anni s project. During the year 23 designs for contract construction, totalling 182 km of highway, we completed, and 56 designs for day labor totalling 170 km. Thirty-nine bridge designs we completed during the year of which 13 were by consultants. Twenty-three vehicle bridges and o pedestrian bridges were constructed.

Design was completed for double level loading at the Tsawwassen and Swartz Bay fe y terminals and for a new berth at Departure Bay, and construction commenced. Major construct n of a new berth at Prince Rupert was undertaken. A new terminal was built at Skidegate for e Queen Charlotte Islands to Prince Rupert run.

HIGHWAY CONSTRUCTION

Fifty-five major projects were active during 1980/81. Some 139 km of 2-lane highway and 8 km of 4-lane highway were completed at a cost of $114,000,000.

Thirty-seven paving contracts were active during 1980/81. Some 2,000 lane-km of highw y were paved with asphalt concrete and 1,000 lane-km of highway were seal coated.

During the fiscal year, legal surveys defined 385 km of highway right of way.

TRANSPORTATION DIVISION

GENERAL COMMENTS:

During the year organizational changes were introduced within the Transportation Divisi n to provide for a more efficient Ministry reporting structure and to enable the Ministry to resp d more effectively to the needs of the Province and industry in the area of transportation analysis d planning.

A major thrust of the change was an administrative realignment within the Motor Vehi e Branch which saw the creation of two new director level positions in the areas of Standards d Compliance, and Administration and Safety Programs, with direct responsibility to the Super - tendent of Motor Vehicles.

The Director of Standards and Compliance coordinates the administration of the vehicu r functions of the Ministry, i.e., Motor Vehicle Inspection, Weigh Scales, etc., and the Directo f Administration and Safety Programs encompasses a general administrative responsibility with e specialized functions of safety and the transportation of dangerous goods.

The remaining areas of responsibility within the scope of the Transportation Division of e Ministry, i.e., Transport Policy Analysis, Transportation Engineering and Inspection, the r

sport Assistance Program, and the overall responsibility for intergovernmental liaison fall in the purvue of the Assistant Deputy Minister of Transportation Policy.

Other changes include the transfer of the Air Services Branch to the Administrative Division ie Ministry, under the guidance of the Assistant Deputy Minister of Administration and nce, and a shared responsibility for the *Highways (Industrial) Act* between the Highways sion and the Motor Vehicle Branch.

In reference to specific projects, some of the highlights of the Ministry's accomplishments is follows:

The Motor Vehicle Branch was involved in the negotiation of an interprovincial licensing ement designed to increase the efficiency of the use of equipment for interprovincial carriers. Motor Vehicle Task Force Report, completed during the year, involved members of the senior of the Branch who made a substantial contribution to the development of the ultimate mmendations. The Ministry, through the Motor Vehicle Branch, was designated to undertake ordinating role in the ongoing program towards regulatory control in the area of transportation ngerous goods. Considerable progress has been made relative to the movement of dangerous ls on highway and by rail; however, much is yet to be accomplished which will require the full eration of all concerned. Significant advancement was also made in the field of commercial cle operational safety, through the introduction of a commercial vehicle on-highway inspec- program throughout the Province. In addition, the Motor Vehicle Branch changed the fee ture for motor vehicles and commercial vehicles.

In the area of Transportation Policy, major strides have been made in the field of railway ational safety, and new programs have been implemented in inspection, investigation and itoring of all facets of railway operation.

The Air Transport Assistance Program continued in the assessment and approval of a ificant number of grants for assistance in local airport construction and rehabilitation ughout the Province for a total expenditure of $3,965,000.

The Ministry continued to assist with the provision of air ambulance service to all points in sh Columbia in cooperation with the Health Ministry, as well as provide aerial photography ices and air transportation for the Provincial Government. A new policy now allows for ial flights (for other than Ministers) to be booked the same as scheduled flights through the el Recording Centre. Special flights for ministers continue to be booked directly with the atch Office.

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TRANSPORTATION

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SENIOR MINISTRY PERSONNEL
As At March 31, 1981

The Honourable Alex. V. Fraser, Minister of Transportation and Highways

R. G. Harvey, P.Eng., Deputy Minister Transportation and Highways

ADMINISTRATION

. Rhodes, Assistant Deputy Minister
. Limacher, Director of Personnel Programs
Price, Director of Financial Services
Perry, Director of Aircraft Services
. Brown, Director of Property Services
D. Gray, Manager, Building Services
R. J. Baines, Senior Information Officer
R. A. Fisher, Contract Documents Officer
G. A. Cavin, Insurance and Claims Officer

HIGHWAY OPERATIONS

Johnson, P.Eng., Assistant Deputy Minister
i. Elston, P.Eng., Executive Director, Engi-ering Division
Readshaw, P.Eng., Director of Highway De-n and Surveys
G. Kerr, P.Eng., Director of Geotechnical d Materials Engineering
. Johnson, P.Eng., Director of Bridge gineering
. Coupe, P.Eng., Director of Traffic gineering
. Parkes, P.Eng., Director of Planning
J. Lisman, P.Eng., Highway Safety Engineer
R. G. White, P.Eng., Executive Director, Construction Division
N. R. Zapf, Director of Construction
D. F. Martin, P.Eng., Director of Paving
P. J. Carr, P.Eng., Executive Director, Operational Services
P. B. MacCarthy, P.Eng., Director of Maintenance Services
E. A. Lund, P.Eng., Director of Equipment Services

TRANSPORTATION POLICY

. Kasianchuk, Ph.D., Assistant Deputy inister
nt, Director Transport Policy Analysis
F. H. Christenson, P.Eng., Chief Inspection Engineer
A. Shaw, C.A.M., Director of Special Projects

MOTOR CARRIER COMMISSION

e G. R. Sutherland, Chairman
A. R. Fitch, Superintendent of Motor Carriers

MOTOR VEHICLE BRANCH

. Whitlock, Superintendent of Motor Vehicles
. Jackman, Deputy Superintendent Vehicle d Driver Licensing
P. Toogood, Director Standards and Compliance
J. F. Phillips, Director Administration and Safety Programs

HIGHWAY FIELD OPERATIONS

Region 1

M. O'Connor, P.Eng., Regional Highway gineer
. Veitch, Regional Maintenance Operations anager
. R. Fru, P.Eng., Regional Construction gineer
arlinge, Regional Superintendent of Highway sign and Surveys
. R. Eastman, P.Eng., Regional Geotechnical d Materials Engineer
nds, Regional Paving Superintendent
L. H. Mercier, Regional Property Negotiator
R. D. Page, Regional Traffic Superintendent
T. R. Yearsley, Regional Mechanical Superintendent
R. Winbow, District Highways Manager
T. M. Forsyth, District Highways Manager
H. F. Blunden, District Highways Manager
P. S. Dunn, District Highways Manager
T. A. Tasaka, P.Eng., Dock Engineer
H. Gutteridge, District Electrical Manager

Region 2

R. W. Gittins, P.Eng., Regional Highway Engineer
D. C. MacVicar, P.Eng., Regional Maintenance Operations Manager
A. W. Slater, P.Eng., Regional Construction Engineer
A. W. G. Smith, Regional Superintendent of Highway Design and Surveys
G. E. Miller, P.Eng., Regional Geotechnical and Materials Engineer
J. F. Meidinger, P.Eng., Regional Paving Superintendent
G. A. Ward, Regional Property Negotiator
J. T. Evans, Regional Mechanical Superintend
S. J. Sviatko, District Highways Manager
W. A. Budden, District Highways Manager
J. E. Steven, District Highways Manager
B. D. Hunter, P.Eng., District Highways Mana
D. L. Byers, P.Eng., District Highways Mana
R. L. Chapman, P.Eng., District Highw Manager
J. C. Jensen, District Highways Manager
W. J. McDonald, District Highways Manager

Region 3

W. M. Sproul, P.Eng., Regional Highway Engineer
H. J. Kelsall, P.Eng., Regional Maintenance Operations Manager
G. J. Sutherland, P.Eng., Regional Construction Engineer
P. J. Bonser, P.Eng., Regional Highway Design and Surveys Engineer
P. Barnes, P.Eng., Regional Geotechnical and Materials Engineer
R. Pratt, P.Eng., Regional Paving Superintendent
J. Mintak, Regional Property Negotiator
R. E. Johnson, Regional Mechanical Superin dent
W. R. Ball, District Highways Manager
R. E. McKeown, District Highways Manager
H. L. Good, District Highways Manager
G. F. Kazakoff, District Highways Manager
H. F. Popoff, District Highways Manager
G. K. Austin, District Highways Manager
H. A. Ronmark, District Highways Manager
J. W. Lay, District Highways Manager
R. A. Jackman, District Highways Manager

Region 4

L. A. Broddy, P.Eng., Regional Highway Engineer
W. E. Mercer, P.Eng., Regional Maintenance Operations Manager
D. Chisholm, Regional Construction Superintendent
E. A. Beaumont, P.Eng., Regional Supt. of Highway Design and Surveys
G. C. Stock, P.Eng., Regional Geotechnical and Materials Engineer
F. E. Martens, Regional Paving Superintendent
E. S. Gowman, Regional Property Negotiator
G. A. Warrington, Regional Mechanical Supe tendent
S. Young, P.Eng., District Highways Mana
A. N. Hepp, District Highways Manager
S. D. Gladysz, District Highways Manager
K. E. Bespflug, P.Eng., District Highw Manager
A. W. Horsnell, District Highways Manager
A. H. Willekes, P.Eng., District Highw Manager
S. Paloposki, District Highways Manager

Region 5

D. P. Doyle, P.Eng., Regional Highway Engineer
N. Hope, P.Eng., Regional Maintenance Operations Manager
D. N. Moore, P.Eng., Regional Construction Engineer
D. Nyland, P.Eng., Regional Highway Design and Surveys Engineer
P. M. Wightman, P.Eng., Regional Geotechnical and Materials Engineer
A. Siu, P.Eng., Regional Paving Superintend
J. McDonnell, Regional Property Negotiator
E. J. Robinson, Regional Mechanical Superin dent
J. Ryan, District Highways Manager
W. E. Stanley, District Highways Manager
F. J. R. Martin, District Highways Manager
D. H. Hutton, District Highways Manager

Region 6

L'Hirondelle, P.Eng., Regional Highway
ineer
Freebairn, P.Eng., Regional Maintenance
rations Manager
Dash, Regional Construction Superinten-
t
t, Regional Paving Engineer
Burnett, Regional Property Negotiator
tt, Regional Mechanical Superintendent

A. J. Montador, P.Eng., Regional Geotechnical and Materials Engineer
J. A. Cambrey, Regional Design and Surveys Engineer
J. W. Morris, District Highways Manager
G. W. Harper, District Highways Manager
R. W. Ellis, District Highways Manager
G. R. Kent, P.Eng., District Highways Manager
P. D. Hughes, District Highways Manager

ADMINISTRATION

REPORT OF THE DIRECTOR OF PERSONNEL PROGRAMS

A. R. LIMACHER

The 1980/81 fiscal year was challenging for all sections of the Personnel Programs Branch. Staffing and competition functions remained at a high level of approximately 165 competitions and close to 1,000 regular and auxiliary appointments a month. Partially, as a result of union agreements, safety activities maintained a high profile particularly in training of safety committee members and establishment of additional safety committees.

Enrollment in the Highway Technology Training Program reached a new record and new courses are continually being added. More staff time and effort is being devoted to the labour relations functions. Step 3 grievances have increased by approximately 100 per cent over the previous year and both competition and classification appeals have increased substantially. Management presentations by Regional and Divisional Personnel Staff to hours of work umpires is a significant activity added this past year.

More major organization and classification studies and reviews have been processed than in any prior year. Some organizational studies either commenced or completed included sections of the Motor Vehicle Branch, Motor Carrier Branch, Financial Services Branch, Transport Policy Branch, Aircraft Services Branch, District Highway Offices and Insurance and Claims Office. Major classification studies include Stockmen, Ferry Staff, Engineers, Tradesmen and Operations Workers.

The Director, Senior Training and Safety Officer, Senior Personnel Officer and their Personnel Training and Safety Staff, served on numerous committees within the Ministry and represented the Ministry on outside committees.

PERSONNEL SECTION

As at February 17, 1981, the Ministry's approved work force stood at 6,876 regular positions. This total resulted from the transfer of the Communication Section from this Ministry to the Ministry of Universities, Science and Communications, and the addition of new positions to the Aircraft Services Branch and the Port Albion–Fort Langley Ferry. During the year, seasonal and auxiliary employees were hired to meet the demand of temporary work requirements. The total auxiliaries on staff was greatest in August 1980 when it peaked at 3,068 including 514 students.

The majority of new employees were hired directly within districts and branches for entrance level positions. During 1980, 1,971 postings were required to advertise promotional opportunities, of which 941 were processed through the Public Service Commission with the balance by Headquarters, Regional and District Offices with the assistance of Personnel Officers. This office authorized expenses on transfer for 254 employees totalling $855,120.

This section processed 46 promotional appeals covering Ministry delegated positions and assisted in another 12 covering Public Service Commission authority positions.

In the area of labour relations, this Section processed 211 grievances at Step 3 on behalf of the Deputy Minister, and nine arbitration cases.

As provided for in the last Master Agreement with the B.C.G.E.U., signed in September, 1977 hours of work disputes which cannot be settled by negotiations between the parties, may be resolved by an Hours of Work Umpire. Personnel Officers in this Ministry were involved in 42 work schedule disputes, being responsible for presenting Management's case before Hours of Work Umpires.

During the 1980/81 fiscal year, 199 employees went on retirement. In recognition of long service, 77 employees received Twenty-five Year Certificates and eight employees were honoured with Thirty-five Year Gold watches.

STAFF DEVELOPMENT AND TRAINING SECTION

Demand for and participation in staff development and training continued to incre Employee enrollment in the Highway Technology Training Program grew 16 per cent this yea a total of 2,350 students. Two new courses were added to the program and three existing co es were upgraded to reflect metric standards. Nine courses are under development, eight of these w and one an existing course being upgraded to metric. Leadership in innovative staff tra ng continued with the presentation of Highways Training via satellite programs on the Know ge Network of the West. Programming consisted of one Highways Technology Training Pro m course and several one or two session lectures/workshops on subjects related to High ys Operations. In addition, 950 applications for other courses outside the Ministry were proce d. To satisfy the demand for closer training liaison with the regions, two Field Training Co-ordi tor positions were initiated in the latter part of the year. Responsibilities involve assisting the re ns and the Training and Safety Section with determining training needs, program develop nt, organization and evaluating the effectiveness of current training programs.

There are 65 apprentices indentured in four trade groups, Heavy Duty Mechanics, Indu ial Electricians, Auto Body Repair and Welding. During this fiscal year, ten apprentices grad ted and received their Tradesman Qualification Certificates, all remaining with the Minist as Journeymen in their trade. Approximately 95 tradesmen attended upgrading courses thr gh community colleges and other training facilities.

This fiscal year was a period of further development for the audio-visual section of tra ng and safety.

The first stages in the development of a total audio-visual inventory was completed listi al A/V hardware purchased over the past 20 years.

Continued liaison with the Purchasing Commission's A/V loan and Repair Cente has resulted in the repair of A/V equipment at a minimal cost to our Ministry.

Several in-house video and slide training programs were produced through the Minis o Health's Audio-Visual Production Centre. With these programs and increased purchases of ms and tapes from outside agencies, the first Ministry of Transportation and Highways' Audio-Vua catalogue was developed. These catalogues, distributed throughout the regions, will be on tinually updated as new films, tapes and slide programs are added to headquarters and re na audio-visual libraries.

As a further step to the commitment, Training and Safety has taken to use video for tra ng purposes, two portable video recorders have been introduced into three regions on an exper en tal basis. The introduction of this recording equipment has been accompanied by tra ng workshops in its operation.

The Ministry, a participant of the Motor Vehicle Certification program, has provided tra ng for certification in licence upgrading to employees requiring a different class of operators lice e. This Operator training is conducted by the District Training Operators under guidance and assistance of the Regional Driver Trainers, the examining and certifying authorities. Over the pas decade the Operator Training Program has evolved from a very basic structure, with m ma training, to a complicated and technical training force providing approximately 20,000 hc s o training with trainers dedicated to the theory that training does not cost—it pays with tte production, fewer accidents and less vehicle abuse. In addition to this in-house trainin the Ministry utilized the Heavy Equipment Operator Training Program conducted by the Malaspina Vocational School to upgrade 60 personnel in grader operation and the Professional Driver ntio for training the Hazard Avoidance Instructor Course. There was also continuation of tra ng programs in Defensive Driving and Air Brakes.

Ministry vehicles travelled over 79 million kilometres during the fiscal year with a tal o 822 vehicles accidents recorded with 457 (approximately 56 per cent) of these evalua d a preventable.

HEALTH AND SAFETY PROGRAM

1980, the Ministry reported 778 compensible injuries. Three hundred and sixty-nine of these injuries resulted in lost productive time beyond the day of the accident. Also included were two fatalities to Ministry employees. A total of 10,226 productive days lost was assessed against the Ministry.

Our direct cost for compensation, including payouts for disabilities and medical aid cost, in 1980 totalled $1,100,252.82. When multiplied by the international ratio of four to one (4:1), the Ministry had a total minimal cost of $5,501,264.10 as a result of occupational injuries.

The Ministry had a total of 14,787,485 hours of work exposure, resulting in a countable accident frequency of 42.9 or 42.9 accidents per 1,000,000 hours work.

Region 3 has won the Honourable Minister's Safety Trophy for the fourth consecutive year. Regional Safety Award winners are Gibsons, Kamloops, Grand Forks, Williams Lake, Dease Lake and Nanaimo. Needles Ferry is the recipient of the Marine Services Award for low frequency.

The Ministry provided 700+ employees Occupational Health and Safety Committee training under the Master Agreement between the Province of British Columbia and B.C. Government Employees' Union.

As well, safety training was given to employees in traffic control, use of small hand tools, first aid and prevention of back injuries. Over 2,300 audio-metric tests were given to employees as well as counselling in prevention of hearing loss.

REPORT OF THE DIRECTOR OF PROPERTY SERVICES

A. C. BROWN

During the 1980/81 fiscal year expenditures exceeded the previous year, and the activity of the real estate market in general throughout the province greatly increased the cost of property acquisitions.

A total of 1,341 claims was settled and a further 1,222 were in the process of negotiations. Three claims were settled by arbitration.

The expenditures on acquisition of highway rights of way and other properties required by the Ministry totalled $24,297,461.66.

A total of 499 rights of way was established as highway by publication notice in *The British Columbia Gazette* and a total of 76 closures was made by similar procedure.

The branch arranged for the disposal of 12 parcels surplus to highway requirements under the provisions of the Ministry's statute and transferred a further 67 parcels to the Ministry of Lands, Parks and Housing.

The establishment of a research section involving roads in Indian reserves has been well received by Indian councils and has been effective in resolving a number of controversial road problems.

REPORT OF THE MANAGER OF BUILDING SERVICES

D. GREY

The third year of the Ministry's five-year plan followed, with one exception, the major objectives of the plan. The minor improvements program was, however, severely curtailed; this has slowed down the rational progress of the upgrading plan, particularly in more remote areas.

Construction was commenced or completed on the following projects:

New yard and buildings	Woss
Rest area buildings	Bradner Road
	Cole Road
Paving laboratory	Nelson
Paving laboratory	Burnaby
Domestic water system	George Massey Tunnel
New yard and buildings	Kiskatinaw
New yard and buildings	Rose Prairie
New yard and buildings	Horsefly
Major extension	100 Mile House
Major extension	Revelstoke
New District yard and shop	Prince Rupert
Site services	Meziadin
Three residences	Dease Lake
One residence	Slim Creek
Storage building	Williams Lake
Storage building	Vernon

Planning was carried out, all approvals obtained, and projects designed and made ready to tender, including the following:

New major shop	Hope
New yard and buildings (to replace Bella Coola)	Hagensborg
New combined paving and material testing laboratory	Terrace

Planning, site layout, and some preparatory work was done at:

New Regional yard	Kamloops

Property was acquired for:

New combined paving and material testing laboratory	Port Coquitlam

This year saw the end of the program of measurement and recording of all yards and the facilities occupied by the Ministry. A detailed plan layout, photographs of all buildings and interiors and details of site services has been established.

Once again, this branch wishes to extend its thanks to staff at all levels for the complete co-operation that was received.

REPORT OF THE INSURANCE AND CLAIMS OFFICER

G. A. CAVIN

The period involved in the motor vehicle statistics is from April 1, 1980 to March 31, 1981.

The number of traffic incidents involving vehicles owned by (or leased to) the government was 056, including 182 incidents in which the government vehicles were parked. In the previous year there were 2,098 incidents.

The number of incidents involving motor vehicles of specific ministries were:

Ministry name	Number of Incidents	Number of Vehicles	Per Cent of Total Vehicles	Per Cent of Total Incidents
Agriculture and Food	30	178	1.7	1.5
Attorney General	215	932	8.9	10.4
Consumer and Corporate Affairs	14	81	0.8	0.7
Energy, Mines and Petroleum Resources	13	110	1.0	0.6
Environment	63	652	6.3	3.1
Finance	7	63	0.6	0.3
Forests	516	1,684	16.2	25.1
Health	217	1,033	9.9	10.5
Human Resources	117	528	5.1	5.7
Labour	22	178	1.7	1.1
Lands, Parks and Housing	73	495	4.8	3.6
Provincial Secretary and Government Services	19	102	1.0	0.9
Transportation and Highways	747	4,305	41.4	36.3
All other Ministries	5	61	0.6	0.2
Total	2,058*	10,402	100	100

* There were two incidents involving vehicles of two different ministries.

There were 113 incidents involving two or more vehicles of the same ministry.

The Government recovered, either from its own collision damage insurers or from third-party liability insurance, a total of $326,179.

Claims other than those arising out of incidents involving Government motor vehicles resulted in recovery of repair costs of $722,645 for damages to 63 guard-rails, 56 bridges, 38 signs, 112 lamp or signal standards, 32 fences, 58 posts and poles and 107 miscellaneous items such as flagging, cleanup of spills, pavement repairs and vandalism. Included in these recoveries were four claims against insurance policies purchased by the Government totalling $5,015; and $17,2 for damage to British Columbia Ferry Corporation property. Some of the major items of recovery were $226,618 for damage to Clearwater Bridge; $22,390 for damages to Gun Creek Bridge; $14,539 for damage to machinery being transported; $12,913 for an incident causing damage to railings; $11,450 for an incident causing damage to curbs, railings and posts; and $10,8 for damage to an overhead sign.

The total paid out for 1,018 miscellaneous third-party claims was $227,211, including $30,0 for 17 claims handled on behalf of the British Columbia Ferry Corporation. The largest single claim paid out was $63,500 for the death of a motorist in a highway construction zone.

There were 121 claims arising from the transferring of Government employees, 116 of these being for damage to household effects, and 5 for damage to mobile homes.

As a result of the modifications to the vessel *Princess Marguerite* considerable time was spent in negotiations with the insurance brokers acting for the B.C. Steamship Company and ship repairing firm.

Of 13 lawsuits in which the Government was the defendant, six were settled out of court, three were withdrawn, two were dismissed, one judgment was given in favour of the plaintiff and one judgment was two-thirds in favour of the plaintiff.

There were presently 81 cases in various stages of litigation, the Government bein he plaintiff in four of these.

PREMIUMS PAID FOR INSURANCE PLACED
DURING 1980–81

Ministry of Transportation and Highways	$157,278.83
Commissions and other Ministries	116,793.55
B.C. Steamship Co. (1975) Ltd.	53,561.56
Total	$327,633.94

REPORT OF THE CONTRACT DOCUMENTS OFFICER

R. A. FISHER

The 1980/81 fiscal year was the lowest in five years with only 112 contracts being advertised and awarded as listed in the following statistics. The highlight of those contracts was the first of the grading projects on the Northeast Coal Development Access Road from the junction of Highway 97 at Chetwynd to Martin Creek being 14.3 miles designed in Imperial measurement whereas the remainder will be in Metric. Other contracts relevant to the development were the Prince Rupert to Rid Island Access (6.73 km) and the Kasiks River to Backwater Creek (5.32 km) section of the Yel whead Highway 16.

Production of the Quick Print Shop has again increased considerably with emphasis being placed on the Diazo White Plan Printer this year. The awareness of the availability and productive capabilities of the equipment is inflating the demand which together with offset printing makes the shop a beehive of activity.

The library facilities too have had a greater demand made of them and is proving to be an asset to the Ministry.

Word Processing has also been introduced, on a limited basis, into the operations of the Branch. The capabilities of the equipment, once established with proficient operators, will enhance the productivity of the Branch and reduce the possibilities of delays particularly with Progress Estimates from which contractors are paid.

Contract Statistics are as follows:

CONTRACT STATISTICS
SUMMARY OF ELECTORAL DISTRICTS OF GRADING, PAVING, BRIDGE, FERRY-LANDING, FERRY, CRUSHED GRAVEL, AND MISCELLANEOUS CONTRACT PROJECTS COMPLETED OR IN PROGRESS

Electoral District			Project
Atlin	Bridges:	0557-1	General Construction Bear River Bridge Stewart Cassiar Highway 37A
	Gravel Crushing:	M-4529-26	Hotel Creek Pit #5301 Deltair Pit #5313, Dease Lake
Boundary-Similkameen	Bridges:	0573-1	General Construction of Sidewalk additi Westbride #2619, Rock Creek, Kelowna
	Gravel Crushing:	M-4529-4	Elgie Pit #2475, Penticton
Burnaby-Edmonds & Burnaby-Willingdon	Miscellaneous:	M 4518 - 1	Landscape Development of Highway Interch Willingdon Avenue to Cariboo Road, Trans Canada Highway No. 1, Burnaby
Cariboo	Paving:	794706	Storm Sewer, Curbs & Gutter, and Paving Williams Lake, Cariboo Highway #97
		0278	Job A: Quesnel River Bridge to Sutherla Highway #97 (3.0 km) Job B: Sutherland Avenue to Barkerville Highway #97 (4.0 km)
		0644	Miscellaneous Roads, Williams Lake, Hor and Likely Areas (62.7 km)
	Bridges:	0001	General Construction McLarry Bridge #51 Barkerville Highway
		0536-1	Davie Street Pedestrian Overpass #2743,

District		Project
ont'd)	Gravel Crushing:	
	M 4529-1	122 Mile Pit #2704, 100 Mile House
	M 4529-28	Westal Pit #4249, Quesnel
	Miscellaneous:	
	D 4453	Construction of Washroom Building, 108 Mile Rest Area, Cariboo Highway #97
aser		
	Miscellaneous:	
	D-3714-2	Construction of Washroom Building, Bradner Road Safety Rest Area, Trans Canada Hwy #1, Chilliwack
	D-3716-2	Construction of Washroom Building, Cole Road Safety Rest Area, Trans Canada Hwy #1, Chilliwack
	Grading:	
	4527	Construction of 17th Street Bridge approaches in Courtenay (3.70 km)
	Paving:	
	0639	Ocean Grove Road to Black Creek Island Hwy # 19 (15.50 km) and miscellaneous Frontage Rd (1.10 km)
	Bridges:	
	1373-1	Bonell Creek Bridge Duplicate No. 1246, Nanoose Creek Bridge Duplicate No. 1247, Island Hwy. #19
	B-1285-1	General Construction - Courtenay River Bridge No. 2701 on 17th Street
	B-0656-1	General Construction Nanoose Overhead Duplicate No. 1640, Nanoose Overhead modifications No. 1640 Island Highway #19
	Gravel Crushing:	
	M-4529-13	Central Pit 64004, Cape Mudge Pit 6497A, Courtenay
	Bridge:	
	1374-1	General Construction - Colony Farm Overhead No. 2664, Cape Horn to Pit River Highway
	Miscellaneous:	
	D-0094-1	Landscape Development of Cape Horn Interchange Port Mann Bridge, Trans Canada Highway #1

Electoral District			Project
Cowichan-Malahat	Paving:	S-0084-06101	Sealcoating from Junction of Trans Canad #1 to Meade Creek Bridge (31.00 km)
	Bridges:	0663	Modifications to Bracings, Cowichan Rive Bridge #1289, Trans Canada Highway #1
Delta	Grading:	C-0598	Supply of Dredged Material - Fraser Rive Highway #99 to Queensborough [illegible]
	Paving:	S-0035	Highway 17 Overpass to Oak Street Bridge #99 & Sea Island Way (11.29 km)
	Ferries:	T.F.M. 192-1	Double Decking Berth #3, Tsawwassen Ferry Terminal
Dewdney	Bridges:	1375-1	Rehabilitation of Superstructure - Pit R Bridge #58, Lougheed Highway #7
Esquimalt - Port Renfrew	Bridges:	1380-1	Removal of Pier and Steel Span of Abando Bridge over Interurban Road
Kamloops	Miscellaneous:	D-0097-1	Landscape Development of Halston Overhea at Kamloops
Kootenay	Bridges:	B-1261-3	Deck construction of McPhee Bridge #2623 St. Mary River on Highway 95A
Mackenzie CANCELLED	Ferries:	M 177 B-1389-2	New Ferry Terminal Bldg at Langdale Ferr Marine Structure at Blubber Bay Ferry Te

r District		Project
o	Ferries:	
	T.F.M. 143-2	Marine Structure Departure Bay Ferry Terminal
reston	Miscellaneous:	
	D-0098-1	Landscape Development of Salmo Bypass on Highway #3 at Salmo
sinster	Grading:	
	C-0598	Supply of Dredged Material - Fraser River Crossing Highway 99 to Queensborough Bridge
land	Paving:	
	S-0641	Port Alice to Junction of Island Highway No. 19 Arterial Highway 637R and District Road No. 493 (16.70 km)
	Bridges:	
	1385	Repairs and Modifications to Steelwork Nimpkish River No. 2162, Kitimat River Bridge No. 1480, Hirsch Creek Bridge No. 1478
	B-0423	Cleaning and Painting of Campbell River Bridge on Highway 19
	Gravel Crushing:	
	M-4529-12	Oyster River Pit #6498, Courtenay
	M-4529-13	Central Pit #6400H and Cape Mudge Pit #6497A, Courtenay
Pce	Grading:	
	C-4484A	Installation of Structural Steel Plate Pipe Culverts at Tsinhia Creek and D'Easum Creek on Fort Nelson to Fort Simpson Highway
	Bridges:	
	B-0286-1	Prestressed Concrete Alternate Petitot River Bridge #2616, Fort Nelson to Fort Simpson Highway
	Gravel Crushing:	
	M-4529-19	Riske Pit No. 4482, Fort St. John
	M-4529-21	Peejay Pit No. 4462, Fort St. John
	M-4529-22	Wilde Pit No. 4468, Fort St. John
	M-4529-25	Triad Pit No. 4467, Fort St. John

Electoral District			Project
Okanagan - North		B-0039-1	General Construction - Kettle River Brid No. 6503, Monashee Highway #6
Okanagan - South	Paving:	S-2938	Glenmore Street upgrading, Glenwood Aven Lawrence Avenue and Harvey Avenue inters Section A - Sidewalk, Curb & Gutter, & P Section B - Mill Creek Bridge No. 2713
	Gravel Crushing:	M-4529-27	McDougal Pit No. 2904, Kelowna
Omineca	Paving:	S-0084-4501	Crushed Aggregate in Stockpile at Stella Pit 4588, Highway #16
		S-0414	Asphalt Surfacing Miscellaneous Roads Fraser Lake Area (18.6 km)
	Bridges:	B-1257-3	Endako Overhead No. 1281, Endako River B No. 2520, Yellowhead Highwa - Decking
	Gravel Crushing:	M-4529-3	Bellicini Pit #5580, Burns Lake
Prince George - North	Grading:	C-0102	Construction of Summit Lake Bypass, John Highway #97 (10.669 km)
		C-2792	Reconstruction, Nechako River Bridge to Lake Road, John Hart Highway #97 (10.33
Prince George - South	Paving:	S-0084-4101-S	Medium Cover Aggregate & Crushed Granula Surfacing Aggregate in Stockpile, Highwa Prince George, Bednesti Lake Area
		S-0642	Fraser River Bridge to Moose River Bridg Yellowhead Highway #16, (48.70 km)
Prince Rupert	Grading:	C-4483	Prince Rupert-Ridley Island Access Road
	Paving:	S-0033	Strength Patching - Grade Correction Pav Avenue from 8th Street to McBride Street McBride St. from 2nd Ave. to 3rd Avenue

District		Project
ert	Ferries:	
	T.F.M. 195-2	Marine Structure & Electrical, Skidegate Ferry Terminal
	T.F.M. 141-1	Marine Structures, Prince Rupert Ferry Terminal
	T.F.M. 141-2	Installation of Electrical & Water Systems at Prince Rupert Ferry Terminal
	Paving:	
	S-0035	Highway #17 Overpass to Oak Street Bridge on Highway #99 and Sea Island Way (11.29 km)
	Ferries:	
	T.F.M. 187	General Contract for Liferaft Building at Deas Maintenance Facility
	T.F.M. 198-4	Foundation Work of New Stores Building at Deas Maintenance Facility
	T.F.M. 198-5	Finishing Work at New Stores Building & Office, Deas Refit Stores Complex, Deas Maintenance Facility
rail	Paving:	
	S-0646	Paulson Bridge to Kinnaird Bridge on Highway #3 (48.4 km)
The	Ferries:	
	T.F.M. 188	General Contract for Holding Lane Expansion at Vesuvius Ferry Terminal on Saltspring Island
	T.F.M. 194-1	Revision of Exit lanes, Swartz Bay Ferry Terminal
	Gravel Crushing:	
	M-4529-11	Salt Spring, Pender, Galiano, Napier and Saturna Islands
	M-4529-15	Supply and deliver to Islands off East Coast of Vancouver Island
	M-4529-31	Supply and delivery to Islands off East Coast of Vancouver Island
	Miscellaneous:	
	D-3121-6	Landscape Development of Blanshard Street Extension by Ravine Way and Blanshard Street

Electoral District			Project
Shuswap - Revelstoke	Grading:	3943	Construction of Relocation Highway No. 2 Revelstoke-Mica Sta. 586+13.7 to Sta. 660+30 (7.1 km)
		3960	Construction of Relocation Highway No. 2 Revelstoke-Mica Sta. 1071+59.984 to Sta. 1162+93.96 (9.10 km)
		3962	Construction of Highway No. 23, Revelstol Sta. 1255+44.263 to Sta. 1275+00, Sta. 1 to Sta. 1312+60.117, Sta. 1313+00 to Sta 1325+90.713 (6.1 km)
	Paving:	S-0034	Asphalt Surfacing Highway No. 23, Revels Mica, Downie Creek to Bigmouth Creek (28
		S-0645	Asphalt Surfacing Highway No. 97, Pinans Road to Hanna Road (27.0 km)
	Bridges:	1232-1	La Forme Creek Bridge No. 2697, Revelsto Mica Highway No. 23, Substructure
		1232-2	La Forme Creek Bridge No. 2697, Revelsto Mica Highway No. 23, Fabrication & Erect Structural Steel Work
		1234-1	Mars Creek Bridge No. 1430, Revelstoke-M Highway No. 23 - Substructure
		1234-2	Mars Creek Bridge No. 1430, Revelstoke-M Highway No. 23, Superstructure and Remov Holdick Creek Bridge
	Gravel Crushing:	M-4529-1	Grube Pit No. 2224, Salmon Arm
Skeena	Grading:	C-0253	Reconstruction Kasiks River to Backwater Yellowhead Highway No. 16, 77.84 km to 8 Prince Rupert to Terrace Segment 1505, S 1939+50 to Sta. 2220+00 (8.56 km)
	Paving:	S-0640	Schedule A: Highway #16, New Hazelton Ov Mudflat Creek Overhead (11.2 km) Schedul Hazelton High Level Road (7.8 km) Hazelt Streets (1.3 km) Schedule C: Kispiox Val (14.7 km) Schedule D: Highway #16, Misce Sections Kitwanga to Carnaby Crossing (9

District		Project
	Bridges:	
	1385	Nimpkish kiver Bridge No. 2162, Kitimat River Bridge No. 1480, Hirsch Creek Bridge No. 1478, Repairs and Modifications to Steelwork
	B-0032	Hirsch Creek Bridge No. 1478, Kitimat River Bridge No. 1480, Williams Creek Bridge No. 2410, Highway #25, Cleaning & Painting
	B-0426	General Construction Lean-to-Creek Bridge #1024 Kalum Lake Road
	Gravel Crushing:	
	M-4529-8	Swan No. 1 Pit No. 5407, Smithers
	M-4529-9	Cronin Pit No. 5451, Smithers
	M-4529-10	Tatlow, 9 Mile and Carnaby Pits, Smithers
	M-4529-20	Crescent No. 5250, Kozier Pit No. 5232
	Grading:	
	4513	Construction of Junctions Highway #97 to Martin Creek (23.01 km) Northeast Coal Development Road, Sta. 21+05.42 to Sta. 778+50
	Paving:	
	S-0240	Surfacing Jonn Hart-Peace River Highway No. 97, Kathleen Creek to Silver Sands Creek (20.9 km)
	Bridges:	
	1393-1	Pile Load Test - Twidweal Bend Bridge No. 2668 Northeast Coal Development Road
	B-108-1	Replacement of Railing, Kesbatenay Bridge No. 2606, Highway No. 97
	Gravel Crushing:	
	M-4529-17	Pit No. P4329, Dawson Creek
	M-4529-18	Mt. Lemoray Pit No. 4399, Dawson Creek
	M-4529-23	Cowie Creek, H4302, Dawson Creek
	M-4529-24	36 Mile Moore Road 4302H, Dawson Creek revised by addendum 2, Johnson Pit No. 4304, south of Taylor Way, Dawson Creek
	M-4529-30	Flatbed No. 2 Pit P4302Q, Dawson Creek
	Grading:	
	C-0252	Reconstruction of Cheakamus Canyon Section, Garibaldi Highway No. 99 (2.446 km)

Electoral District		Project
Yale - Lillooet	Grading:	
	C-4478	Coquihalla Highway Construction, Boston B Creek Summit to Day Gulch Sta. 510+00 to 555+00 (4.50m km)
	C-4370-1	Reconstruction of Station Hill Road (Lill Access Road) including Metal Bin Walls & Protection of Railway.
	Bridges:	
	B-1192-3	Deck - Lillooet Bridge #221, Lillooet Accs
	Gravel Crushing:	
	M-4529-2	5 Mile Pit No. 2627, Lillooet
	M-4529-5	Walloper Pit No. 2556, Merritt
	M-4529-6	Rusty Pit No. 2546, Merritt
	M-4529-7	Logan Lake East Pit #2553, Merritt
	M-4529-14	Forestry Pit 1610, Hope
	M-4529-29	Godey Pit No. 2542, Merritt
	Miscellaneous:	
	4526-1	Reforestation of Cut Slopes, Trans Canada Hig No. 1, Boston Bar, (approx 1.6 km)

TENDERS RECEIVED AND CONTRACTS AWARDED
Roads

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
2792 - Reconstruction;-Nechako River Bridge to Chief Lake Road (6.41 miles or 10.33 km) on Hart Highway No. 97		
Bitulithic Ltd	3,736,381.20	Awarded
Contracting Ltd.	4,166,913.00	
Construction Co. Ltd.	4,175,911.79	
tt & Sons Construction Ltd.	4,234,445.03	
Construction Ltd.	4,587,187.53	
ewit Sons Co. Ltd.	4,764,001.59	
d Construction Ltd.	4,775,523.09	
tstruction Ltd.	6,882,404.55	
43 - Construction of Relocated Highway No. 23, Revelstoke-Mica Sta. 586+13.7 to Sta. 660+30 (7.4 km)		
erson Construction Co. Ltd.	1,861,148.00	Awarded
Contracting Co. Ltd.	2,501,390.00	
struction Co.	2,501,504.50	
h Construction Ltd.	2,856,710.00	
Construction Ltd.	2,863,940.00	
Contracting Ltd.	2.941,105.00	
ewit Sons Co. Ltd.	3,167,450.00	
struction Ltd.	4,143,260.00	
60 - Construction of Relocated Highway No. 23, Revelstoke-Mica Sta. 1071+59.984 to Sta. 1162+93.960 (9.10 km)		
Construction Ltd.	6,675,859.15	Awarded
h Construction Ltd.	6,957,301.30	
Contracting Co. Ltd.	6,968,228.32	
struction Ltd.	7,103,789.45	
ternational Ltd.	7,219,825.18	
ewit Sons Co. Ltd.	7,349,958.89	
Contracting Ltd.	7,770,257.78	
erson Construction Co. Ltd.	7,970,569.29	
Construction & Engineering Ltd.	10,992,229.00	
62 - Construction of Highway No. 23, Revelstoke-Mica Sta. 1255+44.263 to Sta. 1275+00.000, Sta. 1284+00.000 to Sta. 1312+60+117, Sta. 1313+00.000 to Sta. 1325+90.713, km 0.5 to km 132.6 (6.1 km)		
Contracting Co. Ltd.	2,804,957.60	Awarded
struction Co.	2,880,174.99	
Construction Ltd.	3,072,784.69	
struction Ltd.	3,406,031.90	
Contracting Ltd.	3,419,568.75	
erson Construction Co. Ltd.	3,604,219.39	
ewit Sons Co. Ltd.	3,893,009.56	

Roads (Continued)

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Re
Project 4370 - Contract No. 1 - Reconstruction of Station Hill Road, (Lillooet Access Road) Sta. 73+08.69 to Sta. 98+29.24		
View Contruction Ltd.	1,169,422.00	Awa
Edco Construction Co.	1,203,216.00	
Dawson Construction Ltd.	1,271,952.95	
Cantex Engineering & Construction Co. Ltd.	1,329,431.22	
Delta Aggregates Ltd.	1,398,139.61	
Miller Contracting Ltd.	1,451,360.50	
Kettle Valley Contractors Ltd.	1,455,804.50	
Geddes Contracting Co. Ltd.	1,573,006.00	
Peter Kiewit Sons Co. Ltd.	1,579,708.00	
Emil Anderson Construction Co. Ltd.	1,650,000.00	
Goodbrand Construction Ltd.	1,998,807.50	
Project 4478 - Coquihalla Highway Construction Boston Bar Creek Summit to Dry Gulch Sta. 510+00 to Sta. 555+00 (4.50 km)		
Emil Anderson Construction Co. Ltd.	6,459,329.00	Awa
Loram International Ltd.	6,585,880.70	
Peter Kiewit Sons Co.	6,772,452.00	
Dawson Construction Ltd.	6,834,458.00	
Geddes Contracting Ltd.	7,021,965.00	
View Constructin Ltd.	7,264,032.60	
Edco Construction Co.	7,264,060.50	
Chinook Construction & Engineering Ltd.	7,335,470.00	
Miller Contracting Ltd.	8,669,412.50	
Project 4483 - Construction; Prince Rupert - Ridley Island Sta. 43+20.00 to Sta. 110+49.447 (6.73 km)		
L.G. Scott & Sons Construction Ltd.	5,894,198.10	Awa
Dawson Construction Ltd.	6,040,474.17	
Miller Contracting Ltd.	6,155,433.35	
Edco Construction Co.	6,742,656.45	
Peter Kiewit Sons Co. Ltd.	6,827,524.00	
S.L. Paving Ltd.	7,487,128.69	
View Construction Ltd.	7,517,808.00	
Emil Anderson Construction Co. Ltd.	7,615,214.50	
Northern Construction Co. Ltd.	7,992,293.00	
Chinook Construction & Engineering Ltd.	8,964,250.00	
Commonwealth Construction Co. Ltd.	12,740,666.00	

Roads (Continued)

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
ject 484 - A - Structural Steel Plate Pipe Culverts at Tsi ia Creek and D'easum Creek - Fort Nelson to Fort Sim on Highway		
ine Projects Ltd.	124,484.00	Awarded
Valley Contractors Ltd.	278,460.00	
iewit Sons Co. Ltd.	292,940.00	
ject 513 - Contract No. 1 - Construction Junction Highway #97 to rtin Creek (23.01 km or 14.3 miles) - Northeast Coal Dev opment Road Sta. 21+05.42 to Sta. 778+50		
Contracting Co. Ltd.	3,424,565.00	Awarded
nd Construction Ltd.	3,589,020.00	
Valley Contractors Ltd.	3,841,571.60	
ott & Sons Construction Co. Ltd.	3,913,177.00	
Construction Ltd.	3,965,520.60	
Contracting Ltd.	3,981,388.00	
iewit Sons Co. Ltd.	4,817,449.00	
derson Construction Co. Ltd.	5,089,169.00	
nstruction	5,449,535.00	
ject 527 - Construction of 17th Street Bridge approaches, Cou enay (3.70 km or 2.3 miles)		
nd Construction Ltd.	1,391,565.00	Awarded
ontracting Ltd. & Don & Dave Contracting Ltd.	1,286,525.86	
Contracting Ltd.	1,550,236.00	
Cy Paving Ltd.	1,564,237.70	
nstruction Ltd.	1,583,576.00	
nstruction Company	1,619,820.00	
ving Ltd.	1,670,321.05	
ject 102 - Construction: Summit Lake Bypass-John Hart Hwy. #97 ta. 635+00 to Sta. 988+00 (10.669 km or 6.63 miles)		
th Construction Ltd.	4,207,436.70	Awarded
ott & Sons Construction Ltd.	4,215,820.60	
nd Construction Ltd.	4,257,989.00	
Contracting Co. Ltd.	4,405,756.00	
Contracting Co. Ltd.	4,633,493.00	
derson Construction Co. Ltd.	5,228,766.00	
nstruction Ltd.	5,355,542.00	
iewit Sons Co. Ltd.	5,421,867.00	
Construction Ltd.	5,947,191.60	

Roads (Continued)

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	R
Project 0252 - Cheakamus Canyon Section Garibaldi Highway No. 99 (2.446 km or 1.52 miles)		
Dawson Construction Ltd.	5,747,739.00	Awa
View Construction Ltd.	6,198,045.00	
Edco Construction Ltd.	6,532,953.50	
Peter Kiewit Sons Co. Ltd.	6,898,485.00	
Miller Contracting Ltd.	7,427,425.00	
Commonwealth Construction Co. Ltd.	9,101,171.00	
Goodbrand Construction Ltd.	9,161,987.00	
Emil Anderson Construction Co. Ltd.	9,469,049.00	
Project 0253 - Reconstruction Kasiks River to Backwater Creek - Yellowhead Highway No. 16 km 77.84 to km 86.34 Prince Rupert to Terrace segment 1505 Sta. 1939+50 to Sta. 222+00; (5.32 miles or 8.56 km)		
Emil Anderson Construction Ltd.	8,947,380.00	Awa
Peter Kiewit Sons Co. Ltd.	8,975,145.00	
Miller Contracting Ltd.	9,355,490.00	
Edco Construction Ltd.	9,372,087.50	
Edgeworth Construction Ltd.	9,385,818.00	
Dawson Construction Ltd.	9,399,554.00	
Loram International (B.C.) Ltd.	9,466,640.00	
View Construction Ltd.	12,497,927.00	
Project 0598 - Supply of dredged material Fraser River Crossing Highway 99, Queensborough River		
Sceptre Dredging Ltd.	1,765,954.20	Awa
Centennial Dredging & Sand Ltd.	2,034,287.80	
Dillingnam Corporation Canada Ltd.	2,499,020.00	

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
ject-2938 - Bituminous Surfacing 1979-80; District of Kelna, Glenmore Street upgrading Kelowna from Glenwood ave to Lawrence Avenue; Section A - Sidewalk, Curb and Gutr & Paving; Section B - Mill Creek Bridge No. 2713		
eter Bros. Industries Ltd.	667,995.50	Awarded
dwey Construction Ltd.	739,195.00	
irwa Paving Ltd.	762,409.00	
ject 794705 - Bituminous Surfacing 1979-80; Town of Wiliams Lake & Cariboo Highway No. 97; Section A; Toop Ro to South Truck Route; Storm Sewer and Curb and Gutter Sec on B; Highway 97 - Paving 29.3 km		
W.iamson Blacktop Ltd.	1,279,705.00	Awarded
olum.a Bitulithic Ltd.	1,374,405.50	
ortest Paving Co. Ltd.	1,491,640.54	
eDu Paving Ltd.	1,499,686.05	
ent. Paving & Engineering Ltd.	1,658,815.60	
ete Kiewit Sons Co. Ltd.	1,689,255.00	
ject 0084-4101 - Medium Cover aggregate and Crushed Gnular Surfacing Aggregate in Stockpiles; Highway No. 16, Prce George - Bednesti Lake Area		
E Robertson Construction Co. Ltd.	98,000.00	Awarded
olumia Bitulithic Ltd.	127,280.00	
rgu Aggregate Ltd.	194,720.00	
ohn's Trucking Western Ltd.	205,200.00	
R. yles Trucking Ltd.	482,000.00	
ject 0084-4501 - Crushed Aggregate in Stockpile at Stellako P14588, Highway #16		
eckzie Redi-Mix Co. Ltd.	63,700.00	Awarded
ortest Paving Co. Ltd.	71,760.00	
olumia Bitulithic Ltd.	74,880.00	
ohn's Trucking Western Ltd.	102,440.00	
ject 0084-6101 - Bituminous Surfacing 1980-81; Sealcoating fr Junction of Trans Canada Highway No. 1 to Meade Creek Brge (31.0 km) Highway No. 18		
ictia Paving Co. Ltd.	147,368.42	Awarded
ealating Surfacing Ltd.	189,990.00	
ject 0084-0033; Highway 16, Prince Rupert - Strength Patching Gre Correction - Paving 2nd Avenue from 8th Street to McBride Street, McBride Street from 2nd Avenue to 3rd Avenue (1 km)		
G. cott & Sons Construction Ltd.	331,365.00	Awarded

Paving

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Re
Project S-0034 - Asphalt Surfacing 1980-81; Highway 23, Revelstoke-Mica, Downie Creek to Bigmouth Creek (28.5 km)		
Blackline Asphalt Services Ltd.	923,606.00	Awar
Columbia Black Top Ltd.	985,595.00	
Midvalley Construction Ltd.	1,043,962.00	
Peters Bros. Industries Ltd.	1,068,859.50	
LeDuc Paving Ltd.	1,109,040.00	
Westcoast Paving Co. Ltd.	1,195,555.00	
Victoria Paving Co. Ltd.	1,367,322.29	
Project S-0035 - Asphalt Surfacing 1980-81; Highway #17 Overpass to Oak Street Bridge Highway #99 & Sea Island Way (11.29 km)		
Imperial Paving Ltd.	1,684,076.50	Awar
Columbia Bitulithic Ltd.	1,693,082.85	
Jack Cewe Ltd.	1,791,634.00	
Project S-0240 - Surfacing 1980-81; John Hart - Peace River Highway No. 97 - Kathleen Creek to Silver Sands Creek; km 59.6 to km 80.5 (20.9 km)		
Columbia Bitulithic Ltd.	568,408.00	Awar
Central Paving & Engineering Ltd.	624,590.00	
Northwest Paving Co. Ltd.	628,250.00	
H. Williamson Blacktop & Landscaping Ltd.	659,825.00	
LeDuc Paving Ltd.	685,287.70	
Peter Kiewit Sons Co. Ltd.	738,250.00	
Project S-0278 - Asphalt Surfacing 1980-81; Job A: Highway #97 Quesnel River Bridge to Sutherland Avenue (3 km) Job B: Highway #97 Sutherland Avenue to Barkerville Junction (4 km)		
Columbia Bitulithic Ltd.	816,792.00	Awar
H. Williamson Blacktop & Landscaping Ltd.	875,670.00	
LeDuc Paving Ltd.	992,467.00	
Central Paving & Engineering Ltd.	1,143,395.00	
Project S-0414 - Asphalt Surfacing 1980-81; Miscellaneous Roads, Fraser Lake Area (18.6 km)		
H. Williamson Blacktop & Landscaping Ltd.	698,730.00	Awar
Columbia Blacktop Ltd.	698,935.00	
Northwest Paving Co. Ltd.	732,832.00	
LeDuc Paving Ltd.	765,690.00	
Central Paving & Engineering Ltd.	824,450.00	

Paving

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Sept-0639 - Asphalt Surfacing 1980-81; Island Highway #19 Oga Grove Road to Black Creek (15.50 km) Miscellaneous Frdage Roads (1.10 km)		
Bctia Paving Co. Ltd.	1,381,396.50	Awarded
eBuk'aving Co. Ltd.	1,414,052.00	
eyo'aving Co. Ltd.	1,416,730.00	
ub ty Paving Ltd.	1,421,185.00	
eck ewe Ltd.	2,845,522.20	
jec S-0640 - Bituminous Surfacing 1980-81; Schedule A; Hiway #16 New Hazelton Overhead to Mudflat Creek Overhead 12 km) Schedule B; Hazelton High Level Road (7.8 km) to Halton Village Streets (1.3 km) Schedule C; Kispiox Valley Rd (14.7 km) Schedule D; Highway #16 - Miscellaneous Sections - Kitwanga to Carnaby Crossing (9.9 km)		
oluia Bitulithic Ltd.	1,676,771.00	Awarded
eBu Paving Ltd.	1,795,410.00	
ent l Paving & Engineering Ltd.	1,856,790.00	
ete Kiewit Sons Co. Ltd.	1,984,445.00	
jec S-0641 - Asphalt Surfacing 1980-81; Port Alice to Poution of Island Highway #19 Arterial Highway; No. 637R and Dirict Road No. 493 (16.70 km)		
.K.aving Co. Ltd.	612,468.75	Awarded
oluia Blacktop Ltd.	622,480.00	
bctia Paving Co. Ltd.	639,714.00	
ub ty Paving Ltd.	642,972.50	
eBu Paving Ltd.	962,533.00	
jec S-0642 - Asphalt Surfacing 1980-81 Fraser River Bridge Atcloose River Bridge on Yellowhead Highway No. 16 (48.7 km)		
oluia Bitulithic Ltd.	1,833.340.00	Awarded
ent l Paving & Engineering Ltd.	2,104,350.00	
eBu Paving Ltd.	2,120,795.00	
. Williamson Blacktop & Landscaping Ltd.	2,158,675.00	
esfast Paving Co. Ltd.	2,177,812.00	
idley Constructin Ltd.	2,194,875.00	
ete Kiewit Sons Co. Ltd.	2,559,720.00	
jec S-0644 - Miscellaneous Roads Williams Lake District, Hisefly and Likely Areas (62.7 km)		
. Williamson Blacktop & Landscaping Ltd.	2,422,748.00	Awarded
eBu Paving Ltd.	2,733,745.00	
an Engineering & Construction Co. Ltd.	2,920,437.00	
olbia Bitulithic Ltd.	2,943,594.00	
idley Construction Ltd.	4,424,355.00	

Paving

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Ran
Project S-0645 - Asphalt Surfacing 1980-81; Highway No. 97 Pinaus Lake Road to Hanna Road (27 km)		
Cantex Engineering & Construction Co. Ltd.	777,802.28	Awarded
H. Williamson Blacktop & Landscaping Ltd.	799,379.00	
LeDuc Paving Ltd.	835,541.00	
Columbia Bitulithic Ltd.	986,780.10	
B.A. Blacktop (Kamloops)	1,085,752.40	
Midvalley Construction Ltd.	1,098,411.00	
Project S-0646 - Asphalt Surfacing 1980-81; Highway No. 3, Paulson Bridge to Kinnaird Overpass (48.4 km)		
Midvalley Construction Ltd.	1,975,309.00	Awarded
Columbia Bitulithic Ltd.	2,047,224.00	
LeDuc Paving Ltd.	2,110,363.00	
H. Williamson Blacktop & Landscaping Ltd.	2,168,986.00	
Victoria Paving Ltd.	2,319,615.00	
Westcoast Paving Co. Ltd.	2,323,014.00	
Peter Kiewit Sons Co. Ltd.	2,678,788.00	

Bridges

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
232 #1 - La Forme Creek Bridge No. 2697 - Highway 23 Revelstoke - Mica Sub-structure		
onstruction	608,269.00	Awarded
rlson Contruction Ltd.	626,980.00	
Construction Ltd.	651,785.00	
nd Construction Ltd.	656,852.00	
nstruction Ltd.	744,202.50	
Construction Ltd.	751,732.00	
d Construction Co. Ltd.	774,180.00	
ift Construction Co. Ltd.	858,935.00	
nterprises Ltd.	891,600.00	
iewit Sons Co. Ltd.	892,856.00	
232 - #2 - La Forme Creek Bridge No. 2697 - Highway 23 Revelstoke-Mica, Fabrication & Erection of Structural Stlwork		
on Bridge Co. Ltd.	1,457,100.00	Awarded
Inc. Western Bridge Division	1,995,630.00	
tin Steel Ltd.	2,043,306.00	
1234 - Mars Creek Bridge No. 1430 - Highway 23, Revelstoke-Mica, Contract No. 1 - Substructure		
aving Ltd.	862,056.28	Awarded
oodano Contruction Ltd.	921,905.00	
nf Construction Ltd.	939,276.00	
allrk Construction Co. Ltd.	997,973.00	
onstruction Ltd.	1,338,973.00	
1234 - Mars Creek Bridge No. 1430 Highway 23, Revelstoke-Mica, Contract No. 2 - Superstructure and Removal of Goldeck Creek Bridge		
Inc. Western Bridge Division	1,498,579.00	Awarded
tin Steel Ltd.	1,678,582.60	
Construction Co. Ltd.	1,698,000.00	
on Bridge Co. Ltd.	2,017,522.00	
1257 - Endako Overhead No. 1281, Endako River Bridge CN 2520 Yellowhead Highway, Contract No. 3 - Deck		
stin Construction Ltd.	390,415.00	Awarded
ingson Construction Ltd.	421,000.00	
ctor Contracting Co. Ltd.	435,000.00	
Contractors, Div. of North Cariboo Bldg. Prod. Ltd.	442,246.00	
nsl Contracting Co. Ltd.	543,760.00	
onstruction Ltd.	552,600.00	
ntnationasl Erectors & Riggers	625,000.00	

Bridges

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	R
Project 1373 - Bonell Creek Bridge Duplicate No. 1246; Nanoose Creek Bridge Duplicate No. 1247; Island Highway - Contract No. 1 - General		
Bastion Construction Ltd.	320,666.25	Awa
Dura Construction Ltd.	327,867.00	
Kingston Construction Ltd.	340,356.70	
G.W. Carlson Construction Ltd.	343,192.00	
Ansha Contracting Co. Ltd.	411,286.40	
Project 1375 - Pitt River Bridge No. 58, Lougheed Highway, Contract No. 1 - Rehabilitation of Superstructure		
Van Vliet Construction Co. Ltd.	647,766.62	Awa
Hallcraft Construction Co. Ltd.	844,034.40	
Goodbrand Construction Ltd.	989,547.00	
Project 1380 - Abandoned C.N.R. Bridge Over Interurban Road, Contract No. 1 - General Removal of Pier and Steel Span		
Wigmar Construction (B.C.) Ltd.	6,975.00	Awa
Dura Construction Ltd.	7,890.00	
Chew Excavating Ltd.	8,298.00	
Wheaton Construction Ltd.	8,950.00	
Farmer Construction Ltd.	10,900.00	
Gregco Industries Ltd.	20,000.00	
Webb & Trace Ltd.	26,247.00	
Project 1385 - Nimpkish River Bridge No. 2162; Kitimat River Bridge No. 1480; Hirsch Creek Bridge No. 1478; Repairs & Modifications to Steelwork		
Hitec Steel Construction & Engineering Services Ltd.	64,482.00	Awa
Dominion Bridge Co. Ltd.	83,047.00	
Project 1393 - Twidwell Bend Bridge No. 2268; Northeast Development Road Contract No. 1, Pile Load Test		
Franki Canada Ltd.	116,445.00	Awa
Pile Foundation (Alberta) Ltd.	165,000.00	
Fraser River Pile Driving Co. Ltd.	188,150.00	
Project B-0001 - McLarry Bridge No. 516 Barkerville Highway, Contract No. 1 - General		
Goodbrand Construction Ltd.	873,899.00	Awa
Hansa Construction	929,471.00	
Kingston Construction Ltd.	932,468.00	

Bridges

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
ject 3-0039 - Kettle River Bridge No. 6503 Monashee Highway No. - Contract No. 1 - General		
Kenyon Construction Ltd.	316,558.50	Awarded
Kateir Contracting Co. Ltd.	367,345.50	
Kenny Construction Ltd.	388,393.00	
Indi Construction Ltd.	395,207.28	
Kranf Construction Ltd.	398,665.00	
Kasth Construction Ltd.	446,046.06	
Kura onstruction Ltd.	458,718.00	
ject 3-108-1 Replacement of Railing - Kisbatenay River Bridge No. 2606, Highway #97		Cancelled
ject 3-0286 - Petitot River Bridge No. 2616, Structural Steel Alternate		Cancelled
ject 3-0286 - Petitot River Bridge No. 2616, Prestressed Concrete Alternative, Contract No. 1, Fort Nelson to Fort Simson Highway		
Pete Kiewit Sons Co. Ltd.	4,515,050.00	Awarded
Newbery Constructors - A Division of Newberry Energy Ltd.	4,953,486.70	
Kura onstruction Ltd.	5,345,127.00	
K.W. arlson Construction Ltd.	5,959,900.00	
ject 3-0426 - Lean-to-Creek Bridge No. 1024; Kalum Lake Road Contract No. 1 - General		
K.W. arlson Construction Ltd.	317,837.00	Awarded
Kasth Construction Ltd.	327,861.71	
Joli G. Lee, Indigo Construction Ltd.	332,938.10	
Kranf Construction Ltd.	339,461.00	
Kinsn Construction Co. Ltd.	362,065.20	
Kura onstruction Ltd.	386,169.00	
ject 3-0536 - Davie Street Pedestrian Overpass Quesnel No. 27 Contract No. 1 - General		
Kingon Construction Ltd.	297,078.80	Awarded
Indi Construction Ltd.	299,848.02	
Kranf Construction Ltd.	322,486.00	
Goodand Construction Ltd.	379,457.00	
ject 3-0557 - Bear River Bridge No. 409, Stewart - Cassiar Hiway No. 37A - Contract No. 1 - General		
Kenny Construction Ltd.	2,042,220.00	Awarded
Goodand Construction Ltd.	2,049,716.00	
Newbery Constructors	2,078,517.00	
Kura onstruction Ltd.	2,187,770.00	
Kingon Construction Ltd.	2,233,827.55	
Pete Kiewit Sons Co. Ltd.	2,357,470.00	

Bridges

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Re
Project B-0573 - Westbridge Bridge No. 2619 Rock Creek - Kelowna Highway No. 33, Contract No. 1 - General Sidewalk Addition		
Hitec Steel Construction & Engineering Services Ltd.	69,273.00	Awar
Project B-0656 - Nanoose Overhead Duplicate No. 1640 Nanoose Overhead modifications No. 1640, Island Highway Contract No. 1 - General		
Ansha Contracting Co. Ltd.	863,467.39	Awar
Bastion Construction Ltd.	986,779.79	
G.W. Carlson Construction Ltd.	997,339.50	
Kingston Construction Ltd.	999,246.05	
Canron Inc. Western Bridge Ltd.	1,035,309.84	
Dura Construction Ltd.	1,093,167.00	
Project B-0663 - Cowichan River Bridge No. 1289: Modifications to Bracing Trans Canada Highway No. 1		
Dominion Bridge Co. Ltd.	28,005.00	Awar
Hitec Steel Construction & Engineering Services Ltd.	32,850.00	
Project B-1192 - Lillooet Bridge No. 221, Lillooet Access Road, Contract No. 3 - Deck		
Kingston Construction Ltd.	866,875.60	Awar
Goodbrand Construction Ltd.	1,238,007.40	
Dura Construction Ltd.	1,546,675.00	
Project B-1234; Mars Creek Bridge No. 1430 Highway 23, Revelstoke-Mica, Contract No. 2 - Superstructure and Removal of Holdick Creek Bridge		
Canron Inc.	1,498,579.00	Awar
Brittain Steel Ltd.	1,678,582.60	
Jaemar Construction Co. Ltd.	1,698,000.00	
Dominion Bridge Co. Ltd.	2,017,522.00	
Project B-1261 - McPhee Bridge over St. Mary River No. 262; Highway No. 95A, Contract No. 3 - Deck		
Jaemar Construction Co. Ltd.	698,000.00	Awar
Goodbrand Construction Ltd.	778,184.00	
Kingston Construction Ltd.	793,968.00	
Ansha Contracting Co.	979,000.00	
Dura Construction Ltd.	1,100.000.00	
Project B-1285 - Courtenay River Bridge No. 2701; 17th Street Contract No. 1 - General		
Hansa Construction Ltd.	2,884,687.00	Awar
G.W. Carlson Construction Ltd.	2,990,840.00	
Dura Construction Ltd.	3,271,434.00	
Dillingham Corporation Canada	3,347,420.00	

Bridges

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
1374 - Colony Farm Overhead No. 2664, Cape Horn to Pittiver Highway - Contract No. 1		
Construction, Division of Van Vliet Construction Co. Ltd.	4,879,257.72	Awarded
Construction Ltd.	4,885,752.00	
Bond Construction Ltd.	5,312,241.00	
Weber Constructors, Division of Newberry Energy Ltd. .	5,761,596.10	

Ferries

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	R
Project T.F.M. 141 - Prince Rupert Ferry Terminal, Contract No. 1 - Marine Structures		
Dillingham Corporation Canada Ltd.	3,024,099.00	Awa
Fraser River Pile Driving Co. Ltd.	3,067,761.00	
Project T.F.M. 141 - Prince Rupert Ferry Terminal, Contract No. 2 - Installation of Electrical-Water Systems		
Sygnet Construction Ltd.	185,475.00	Awa
Winvan Paving Ltd.	208,110.00	
L.G. Scott & Sons Contracting Ltd.	240,840.00	
Project T.F.M. 187 - Deas Maintenance Facility - General Contract of Liferaft Building		
Smith Bros & Wilson Ltd.	175,256.90	Awa
Dompro Construction Ltd.	177,490.00	
Dewey De Vries	194,426.00	
G.W. Carlson Construction	213,123.00	
Goda Dee Engineering Ltd.	216,600.00	
Project T.F.M. 192 - Tsawwassen Ferry Terminal Contract No. 1 - Double Docking Berth No. 3		
Dillingham Corporation Canada Ltd.	1,483,625.00	Awa
Canron Inc.	1,897,941.00	
Fraser River Pile Driving Co. Ltd.	1,962,950.00	
Project T.F.M. 194 - Swartz Bay Ferry Terminal, Contract No. 1 - Revisions to Exit Lanes		
Wakeman & Trimble Contractors Ltd.	284,259.56	Awa
Webb & Trace Ltd.	317,965.00	
Peter Kiewit Sons Co. Ltd.	330,415.00	
Chew Excavating Ltd.	472,326.00	
Project T.F.M. 195 - Skidegate Ferry Terminal, Contract No. 2 - Marine Structure and Electrical		
Fraser River Pile Driving Co. Ltd.	2,628,830.00	Awa
Dillingham Corporation Canada Ltd.	2,943,645.00	
Project T.F.M. 198 - Contract No. 4 - Foundation Work of New Stores Building at Deas Refit/Stores Complex		
Manning Construction Ltd.	90,462.00	Awa
Van Vliet Construction Co. Ltd.	94,231.00	
Dura Construction Ltd.	95,000.00	
Boyd Construction (1979)	96,200.00	
Ansha Contracting Co. Ltd.	97,968.00	
Arlen Construction Ltd.	99,840.00	
Interior Contractors Ltd.	116,797.00	

Ferries

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
ect F.M. 198 - Contract No. 5 - Deas Refit/Stores Complex; Finiing Work, New Stores Building		
frecorie Construction Co. Ltd.	689,400.00	Awarded
yd Cstruction (1979)	720,000.00	
n Bone Construction Ltd.	1,000.000.00	
ect 1389 - Blubber Ferry Terminal, Contract No. 2 - for rine Structures		
aseriver Pile Driving Co. Ltd.	376,443.00	Awarded
rreyron Works Ltd.	433,050.00	
llinam Corporation Canada Ltd.	504,340.00	
rbouPile Driving Co. Ltd.	724,451.00	
ect 177 - New Ferry Terminal at Sangdale Ferry Terminal		Cancelled

Gravel Crusning

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	
Project M-4529 - Crushed Granular Aggregate in Stockpile, Contract No. 1 -122 Mile Pit No. 2704, 100 Mile House Highway District		
D.M.J. Construction Ltd.	79,530.00	Aw
H. Williamson Blacktop & Landscaping Ltd.	98,400.00	
Enderby Gravel Products Ltd.	106,590.00	
W.E. Robertson Construction Co. Ltd.	109,830.00	
Columbia Bitulithic Ltd.	128,700.00	
Johnson's Trucking Western Ltd.	134,700.00	
MacKenzie Redi-Mix	179,880.00	
Contract No. 2 - 5 Mile Pit No. 2627, Lillooet Hwy. District		
D.M.J. Construction Ltd.	67,175.00	Av
Johnson's Trucking Western Ltd.	115,125.00	
Ptarmigan Gravel Ltd.	115,625.00	
Columbia Bitulithic Ltd.	157,850.00	
Contract No. 3 - Bellicini Pit. No. 5580 - Burns Lake Hwy District		
MacKenzie Redi-Mix Co. Ltd.	40,200.00	Av
W.E. Robertson Construction Co. Ltd.	51,975.00	
Omineca Construction Ltd.	59,850.00	
Johnson's Trucking Western Ltd.	82,950.00	
Contract No. 4 - Elgie Pit No. 2475 - Penticton Hwy District		
Ceccon Trucking & Excavating Ltd.	87,935.00	Av
Johnson's Trucking Western Ltd.	89,010.00	
Contract No. 5 - Walloper Pit No. 2556 - Merritt Hwy District		
Ptarmigan Gravel Ltd.	47,250.00	Av
W.E. Robertson Ltd.	58,500.00	
Pete's Development Ltd.	60,500.00	
D.M.J. Construction Ltd.	66,250.00	
Johnson's Trucking Western Ltd.	87,500.00	
Contract No. 6 - Rusty Pit No. 2546 - Merritt Hwy District		Co
Contract No. 7 - Logan Lake East Pit No. 2553 - Merritt Hwy District		
Ptarmigan Gravel Ltd.	45,000.00	Av
W.E. Robertson Construction Co. Ltd.	50,100.00	
D.M.J. Construction Ltd.	58,500.00	
Pete's Development Ltd.	64,450.00	
Johnson's Trucking Western Ltd.	101,250.00	
Contract No. 8 - Swan No. 1 Pit No. 5407 - Smithers Hwy District		
W.E. Robertson Construction Co. Ltd.	49,800.00	Av
Columbia Bitulithic Ltd.	65,700.00	

GRAVEL CRUSHING

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
Contract No. 9 - Pit No. 5451 Smithers Highway District		
Bulkley Redi-Mix Co. Ltd.	44,750.00	Awarded
Contract No. 10 - Tatlow, 9 Mile and Carnaby Pits, Smithers Hwy District		
E. Robertson Construction Co. Ltd.	157,100.00	Awarded
Bulkley Red-Mix Co. Ltd.	206,050.00	
Hanson Trucking Western Ltd.	206,200.00	
Contract No. 11 - Gulf Islands, Saanich		
[illegible] Ltd.	224,008.00	Awarded
Island Asphalt Producers Ltd.	238,208.00	
Pacific Aggregate Ltd.	275,544.00	
[illegible] Blacktop	390,496.00	
Contract No. 12 - Oyster River Pit #6498 - Courtenay		Cancelled
Contract No. 13 - Central Pit No. 6400H on Hornby Island, & Cape Mudge Pit No. 6497A on Quadra Island		(Tender total only for Quadra
Island Excavating (1971) Ltd.	116,250.00	---Island portion)
[illegible] Ltd.	179,850.00	Awarded
Island Asphalt Producers Ltd.	222,000.00	
Pacific Aggregates Ltd.	235,500.00	
Contract No. 14 - Forestry Pit No. 1610, Hope Highway District		
A.J. Construction Ltd.	67,450.00	Awarded
Hanson Trucking Western Ltd.	86,640.00	
Columbia Bitulithic Ltd.	87,590.00	
Lafarge Construction Ltd.	113,810.00	
Contract No. 15 - Supply & Delivery to Islands off east Coast of Vancouver Island		
[illegible] Ltd.	76,676.00	Awarded
Island Asphalt Producers Ltd.	78,620.00	
Contract No. 16 - Grube Pit No. 2224, in Salmon Arm Hwy District		
A.J. Construction Ltd.	67,600.00	Awarded
Armig Gravel Ltd.	74,250.00	
Peter Bs.	76,650.00	
Hanson Trucking Western Ltd.	78,850.00	
Neil's Development Ltd.	101,950.00	
[illegible] Ways Trucking Ltd.	110,000.00	
Contract No. 17 - Pit No. P4329 - Dawson Creek Highway District		
A.J. Construction Ltd.	94,000.00	Awarded
Hanson Trucking Western Ltd.	97,400.00	
Columbia Bitulithic Ltd.	105,400.00	
[illegible] Ways Trucking Ltd.	158,000.00	

Gravel Crushing

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	
Contract No. 18 - Mt. Lemoray Pit No. 4399E Dawson Creek Hwy District		
Columbia Bitulithic Ltd.	46,750.00	Av
Johnson's Trucking Western Ltd.	67,500.00	
D.M.J. Construction Ltd.	78,250.00	
L.R. Wyles Trucking Ltd.	99,000.00	
Contract No. 19 - Rieske Pit No. P4482 Fort St. John Hwy District		
Johnson's Trucking Western Ltd.	82,200.00	Av
Columbia Bitulithic Ltd.	99,400.00	
L.R. Wyles Trucking Ltd.	160,000.00	
Contract No. 20 - Crescent Pit No. 5250 and Kozier Pit No. 5232 - Terrace Highway District		
Farko Contracting Ltd.	102,500.00	Av
Johnson's Trucking Western Ltd.	112,500.00	
Argus Aggregates Ltd.	178,000.00	
L.R. Wyles Trucking Ltd.	252,500.00	
Contract No. 21 - Peejay Pit No. 4463, Fort St. John Hwy District		
Johnson's Trucking Western Ltd.	68,000.00	Av
L.R. Wyles Trucking Ltd.	76,900.00	
Columbia Bitulithic Ltd.	79,400.00	
Contract No. 22 - Wilde Pit No. 4468 Fort St. John Hwy District		
Johnson's Trucking Western Ltd.	149,600.00	Av
Columbia Bitulithic Ltd.	186,800.00	
L.R. Wyles Trucking Ltd.	320,000.00	
Contract No. 23 - Cowie No. 4302H - Dawson Creek Hwy. District		
D.M.J. Construction Ltd.	58,200.00	Av
L.R. Wyles Trucking Ltd.	71,700.00	
Columbia Bitulithic Ltd.	75,600.00	
Johnson's Trucking Western Ltd.	138,000.00	
Contract No. 24 - 36 Mile, Moore Road Pit No. 4302N, Dawson Creek, revised by addendum 2 - Johnson Pit No. 4304, south of Taylor		
L.R. Wyles Trucking Ltd.	91,700.00	Av
Johnson's Trucking Western Ltd.	103,300.00	
D.M.J. Construction Ltd.	103,300.00	
Columbia Bitulithic Ltd.	120,700.00	
Contract No. 25 - Triad Pit No. 4467 - Fort St. John Hwy. District		Co

GRAVEL CRUSHING

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
ct . 26 - Hotel Creek Pit No. 5301 & Deltair Pit		
. 3 - Dease Lake		
ich Toyota Ltd.	294,360.00	Awarded
J. nstruction Ltd.	311,400.00	
. Ws Trucking Ltd.	378,750.00	
Bitulithic Ltd.	446,250.00	
s regates Ltd.	600,900.00	
sor Trucking Western Ltd.	613,650.00	
ct . 27 - McDougal Pit No. 2904 - Kelowna Hwy District		
khes Construction Ltd.	37,000.00	Awarded
Ws Trucking Ltd.	43,800.00	
J. nstruction Ltd.	45,800.00	
ex gineering and Construction Co.	49,600.00	
's velopment Ltd.	59,600.00	
rs os. Industries Ltd.	100,000.00	
ct . 28 - Westel Pit No. 4249 - Quesnel Hwy District		Cancelled
ct . 29 - Godey Pit No. 2542, Merritt Highway District		
Ws Trucking Ltd.	74,200.00	Awarded
rs os. Industries	84,990.00	
J. nstruction Ltd.	88,500.00	
son Trucking Western Ltd.	97,000.00	
nc phalt Producers Ltd.	118,400.00	
ct . 30 - Flatbed No. 2 Pit No. P4302Q - Dawson Creek		
J. nstruction Ltd.	85,800.00	Awarded
rning Ltd.	100,000.00	
son Trucking Western Ltd.	108,000.00	
Ws Trucking Ltd.	133,600.00	
Hartson Construction Co.	149,000.00	
ct N. 31 - Supply and Deliver Crushed Aggregate, Chip al d MC250 Asphalt Patchmix to Islands off East Coast Vancouver Island		
nd phalt Producers	372,051.00	Awarded
Ce Ltd.	423,824.00	
s Aregate Ltd.	506,312.00	

Miscellaneous

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	R
Project No. 4453 - Construction of Washroom Building at 108 Mile Rest Area, Cariboo Highway No. 97,		Can
Project No. 4526 - Contract No. 1 - Reforestation of Cut Slopes Trans Canada Highway #1 - Boston Bar (approx. 1.6 km)		
Whiskey Jack Reforestation	2,108.00	Awa
Dirk Brinkman Contracting Ltd.	2,880.00	
Terrasol Revegetation Erosion Control Ltd.	20,445.00	
Project No. C-3121 - Contract No. 6 - Landscape Development of Blanshard Street Extension Ravine Way, and Blanshards Street, Victoria		
Joe Burns Ltd.	31,936.00	Awa
Kimoff Landscaping Ltd.	34,336.00	
G. & W. Landscaping	41,715.55	
Project No. D-3714 - Contract No. 2 - Construction of Washroom Building Bradner Road Safety Rest Area Trans Canada Highway No. 1, Chilliwack		
Schwab Enterprises	99,843.00	Awa
Dick Heiner Construction Ltd.	104,500.00	
Vada Contracting Ltd.	123,530.00	
G.F. Kay Construction	159,972.00	
Project D-3716 - Contrat No. 2 - Construction of Washroom Building, Cole Road Safety Rest Area, Trans Canada Highway No. 1, Chilliwack		
Dick Heiner Construction Ltd.	81,300.00	Awa
Schwab Enterprises	86,729.00	
Vada Contracting Ltd.	93,750.00	
Project No. D-4453 - Constructon of Washroom Building at 108 Mile Rest Area, Cariboo Highway No. 97		
Cameo Homes 100 Mile House Ltd.	39,653.46	Awa
Tuftco Construction Ltd.	41,804.00	
Flonery Construction Ltd.	42,096.00	
Guran Construction Ltd.	57,805.00	
Jim Dent Construction Ltd.	59,717.00	
Juniper Construction Ltd.	63,892.00	
N.C. Contractors, A Division of N. Cariboo Bldg Products	66,000.00	
Anvil Construction Ltd.	71,925.00	
Wayne Watson Construction Ltd.	84,672.00	

Miscellaneous

Description of Work and Names of Tenderers	Amount of Tenders at Unit Rates Based On Estimated Quantities	Remarks
ect . D-4518 - Contract No. 1 - Landscape Development of ighy Interchanges Willingdon Avenue to Cariboo Road, Tran Canada Highway No. 1, Burnaby		
dar est Lands (B.C.) Ltd.	37,200.75	Awarded
kwa Landscaping Ltd.	38,279.95	
irectural Services Ltd.	38,850.00	
y M oone & Brothers Landscaping	40,490.90	
lian Landscapers Ltd.	46,622.25	
ect 0094 - Contract No. 1 - Landscape Development of Cape Horn nterchange Port Mann Bridge, Trans Canada Highway No. 1, Coquitlam		
kwa Landscaping Ltd.	34,928.89	Awarded
dar est Lands (B.C.) Ltd.	40,544.50	
irectural Services Ltd.	40,960.00	
ect 0097 - Contract No. 1 - Landscape Development of Halsn Overhead, Kamloops, B.C.		
ve's andscaping Ltd.	63,821.56	Awarded
shi Valley & Landscaping Ltd.	71,300.00	
no's ardening & Landscaping Ltd.	92,077.00	
noff andscaping Ltd.	94,396.00	
star Shade & Landscaping Ltd.	107,948.08	
ect 0098 - Contract No. 1 - Landscape Development of Salm Bypass Highway No. 3, Salmo		
shi Valley & Landscaping Ltd.	52,400.00	Awarded
dar est Lands (B.C.) Ltd.	59,518.00	
no's ardening & Landscaping Ltd.	67,432.50	
in's ontracting Ltd.	97,748.29	

MINISTRY OF TRANSPORTATION & HIGHWAYS

ANNUAL REPORT 1980-81

Statement as to major Highway Work (Day Labour only)
completed or in progress during Fiscal Year 1980/81

Region and Highway District	Project No. (if any)	Name of Road	Extent of Work (Location of Work or Initial and Terminal Points)	Distance of Work (km)	Description of Work State whether New Construction or Reconstruction. If the latter, state also whether new diversion, widening, realignment, grade revision, etc. See note.	Date Commenced	% work completed at March 30/81
Region 1 North Vancouver	C-0081	Pemberton Portage Road	White Creek - Gates Lake	9.7 km	Realignment and widening		100%
	C-0203A (C0117T) (K1104)	Highway #99	Lions Bay Access	0.1 km	Decelaration lane		100%
	C-0205A	Highway #99	Strachan Creek	0.2 km	Realignment		100%
	C-0205B (K1102) (K1104)	Highway #99	Sunset Point Access	0.2 km	Left turn slot & deceleration lane		100%
	C-0483	Pemberton Meadows	Arn Bridge	-	Replace bridge with culvert		100%
	C-0484	Eagle Cliff Road	Bowen Island	1.2 km	Realignment and paving		100%
	C-0709	Highway #1 (Trans Canada)	Eagle Ridge	-	Truck brake check		100%
	C-3208	Highway #99	Alpine Drive to Pemberton	27.3 km	Improve drainage and widen		40%
	K-1101	Highway #99	Tunnel Point	0.8 km	Truck lane		100%
Gibsons	C-0118	Various Roads-Gibsons District	Minor betterments	n/a	Widening, ditching, reconstruction	May/80	100%
	C-0183	Sunshine Coast Highway	Wakefield Creek	n/a	Culvert installation	July/80	100%
	C-0611	Lower Road	1 km west of Highway # 101	n/a	Culvert & drainage installation	Oct/80	100%
	C-0710	Sunshine Coast Highway	Madeira Park - Earls Cove	1.0 km	Major pavement patching	March/81	100%

completed or in progress during Fiscal Year 1980/81

	C-0711	Port Mellon Highway	Gibsons - Granthams	0.7 km	Widening, shouldering	Feb/81	100%
	C-0728	Sechelt Inlet Road	3.0 km north of Sechelt	0.5 km	Paving	Mar/81	100%
	C-0485	Sunshine Coast Highway	Earls Cove North	1.5 km	Construct third lane	July/80	100%
	C-3632	Malaspina Road	1.7 km - 2.2 km	0.5 km	Reconstruction	May/80	100%
	N-0369	Sunshine Coast Highway	Gibsons & Madeira Park Areas	0.7 km	Place Guardrail	Aug/80	100%
New Westminster	C-4475	Lougheed Highway #7	Intersection improvement at Shaughnessy Street	0.15 km	Construct right lane for eastbound Route 7 traffic	May/80	100%
	C-0248	Lougheed Highway #7	Approaches to Pitt River Bridge	0.3 km	Widen shoulder and regrade approaches to Pitt River Bridge	July/80	100%
	C-0486	Westminster Highway	Hamilton Road - No. 9 Road	1.8 km	Recap	June/80	100%
	C-0487	Trans Canada, Highway #1	Port Mann westbound Weigh Scale	1.0 km	Increase deceleration & acceleration lane plus increase holding capacity for inspection	Aug/80	100%
	C-0489	Route 10	Intersection improvement at 136th Street	0.5 km	Construct left turn slots	Sept/80	100%
	C-0092	Bridge Road	Bridge Road at Old Yale Road	0.05 km	Construct test fill for future highway construction	Aug/80	100%
	C-0119	Minor Betterment Program	Various locations	n/a	Miscellaneous betterments throughout District	Apr/80	100%
	C-0720	Route 1	King Edward to C.P.R. Overpass	1.6 km	Grinding and patching eastbound slow lane	Mar/81	100%
	D-0565	Route 15	59th Avenue	n/a	Landscaping median and right-of-way	Sept /80	100%
	D-0724	Route 7	Pitt River Bridge approaches	n/a	Landscaping median and approaches to bridges	Mar/81	100%
	N-0370	Guardrail Program	Various highways in the District	n/a	Continuing Guardrail Program	July/80	100%

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Region and Highway District	Project No. (if any)	Name of Road	Extent of Work (Location of Work or Initial and Terminal Points)	Distance of Work (km)	Description of Work State whether New Construction or Reconstruction. If the latter, state also whether new diversion, widening, realignment, grade revision, etc. See note.	Date Commenced	% work completed at March 30/81
Chilliwack	C-0156	Hemlock Valley Road	Morris Valley Road to Km 6.5 Various sections	6.5 km	Reconstruction, drainage improvements, regravelling	Apr/80	100%
	C-03774	Chilliwack Lake Road	Km 30.5 to Km 37.4	6.9 km	Clear, widen and gravel. Extend Post Creek Pipe Arch culvert	Apr/80	100%
	C-4467	Horne & Glasgow	Intersection reconstruct	0.1 km	Widen, pave, signalize	Mar/80	100%
	C-0490	Hartley Road	Stave Lake Road to 0.2 km east of Sylvester Road	2.6 km	Gravel and repave	June/80	100%
	C-0597	Lougheed Highway #7	Ruby Creek Bridge east	0.3 km	Widen and pave for turn slots and w.b. acceleration and deceleration lanes	May/80	100%
	C-0682	Huntingdon-Mission Hwy. #1	Abbotsford Overhead Bridge to to Everett Road	1.2 km	Reconstruct intersection with Marshall Road to eliminate 5th leg. Recap.	Feb/81	100%
	C-0683	Rockwell Drive	Greenpoint Park to N.Bdy. , Kent	1.4 km	Survey, clear and grub, excavate and prepare subgrade	Mar/81	100%
	C-0684	Stave Lake Road	Mission Mun Bdy. to Durieu	1.9 km	Refence, gravel and pave 1.1 km	Mar/81	100%
	N-0371	Guardrail	Agassiz Moutain Highway #7	0.5 km	Replace 460 mm with 690 mm	June/80	100%
	W-066	Fencing	T.C.H. #1 at B.C. Hydro O.P.	0.5 km	Refencing R.R. Right-of-Way	Apr/80	100%
	C-0120G	Canyon Road	Kossiker Road to Blatchford Rd.	0.8 km	Clear and brug, refence, widen and gravel	Jan/81	100%
	C-0120H	Kossiker Road	Maple Falls Rd. to 0.8 km south	0.8 km	Regravel and widen	June/80	100%
	C-0120J	Butt Road	Sumas Mtn. Road Easterly 0.4 km	0.4 km	Clear, grub, widen and gravel	June/80	100%

Statement as to major highway work (by [illegible])
completed or in progress during Fiscal Year 1980/81

	C-0120N	Lake Erroch Area Roads	Aplin, Low & Ryall Roads	0.4 km	Pave	May/80	100%
	C-0120V	Lindell Beach Area Roads	Lindell Beach, Cultus Lake (14 roads)	3.0 km	Pave	Mar/81	100%
	C-0120W	Hatzic & Dewdney Area Roads	Miles, Lakeview, Craig, Swan Alberta, Allcott & Howell Roads	1.8 km	Pave	Mar/81	100%
Hope June/80	100%	J-1680K	#3 Southern Trans Provincial	km 99	150 m	Widen shoulder	
	N-0732	#3 Southern Trans Provincial	Similkameen Falls km 90	786	690 mm concrete guardrail	July/80	100%
	C-0157	#3 Southern Trans Provincial	Similkameen Falls km 90	75 m	Widening	July/80	100%
	C-0121L	#3 Southern Trans Provincial	Various locations	5 km	Ditching	June -Sept.	100%
	J-1680G	#3 Southern Trans Provincial			Rock scaling	Sept.80	100%
	J-1680A	Silver Lake Road	Sowerby Creek		Reconstruct	April/80	100%
	J-1601A	T.C.H. #1	Gordon Creek	75 m	Repair flood damage	Jan/81	100%
	J-1603A	Silver Skagit Road	T.C.H. #1 to Ross Lake	60 km	Repair flood damage	Jan/81	90%
	J-1601D	T.C.H. #1	Hope to Boston Bar		Repair flood damage to shoulders	Jan/81	90%
	J-1602A	#3 Southern Trans Provincial	Hope to Sumallo		Flood repair	Jan/81	90%
	J-1602B	#3 Southern Trans Provincial	Sumallo to Sunday Summit		Flood repair	Jan/81	90%
	C-0158A	Yale Streets		1400 m	Storm drain reconstruct and prepare for paving	Feb/81	100%
	N-0732	T.C.H. #1	American Creek Hill	1000 m	690 mm concrete guardrail	Sept/80	80%
		Othello Road	1 km to 2.62 km	1.62 km	Ditching and shouldering	June/80	100%
	C-0121	T.C.H. #1	Hope dump turn slot	1000 m	Construct and pave left turn		100%

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Statement as to major Highway Work (Day Labour only)
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Region and Highway District	Project No. (if any)	Name of Road	Extent of Work (Location of Work or initial and Terminal Points)	Distance of Work (km)	Description of Work State whether new construction or Reconstruction of the Latter, State also whether new diversion, widening, realignment, grade revision, etc. See note	Date Commenced	% Work Completed at March 30/81
	H-1372	North Bend Ferry	North Bend Ferry		Renew cables		100%
	B-0296	Chaumox Road	Richardson Bridge		Repair		100%
	B-0293	Chaumox Road	McCarthy Bridge		Reconstruct		100%
	Q-1604B	Chaumox Road	Various		Culvert repair		80%
	C-0121H	T.C.H. #1	Ferrabee Tunnel		Slide cleanup		100%
Region 2 Kamloops	C-0259	#697 Barriere Lakes Road	Km 11.0 to km 16.0	5.0 km	Realignment and gravelling	June/80	100%
	C-0260	Misc. Roads Kamloops Area	Various District Roads	32.3	Realignment, gravelling & Sealcoating	May/80	100%
	C-0456	#2275 Lac le Jeune	Km 16.9 to km 19.8	1.8 km	Realignment	Sept/80	75%
		#4088 Roche Lake Road	Km 9.1 to km 10.1	1.0 km	Road widening	Feb/81	100%
	C-0457	#2296 Heffley Louis Creek Road	Km 0.0 to km 4.8	4.8 km	Shoulder widening	Nov/80	100%
		#525 Agate Bay Road	Km 8.0 to km 11.2	3.2 km	Clear and grub	Oct/80	100%
		#4738 Tranquille-Criss Creek Rd.	Km 6.4 to km 11.6 km 11.4 to km 18.8	4.8 km 2.5 km	Gravel Road widen	Nov/80	100%
		#1069 Campbell Creek Road	Km 4.8 to km 7.3	2.5 km	Road widen	Dec/80	100%
	C-0564	Highway #5 Extension	Aberdeen - City of Kamloops	0.3 km	New construction	Sept/80	60%
	C-2514	#1214 Clearwater Valley Road	Km 22.2 to km 25.2	3.0 km	Realignment and gravelling ** Note: All the above are reconstruction except where noted.	June/80	100%

	C-0123	Kamloops District Roads	Various District Roads	55.3 km	Road widening, gravelling, machine paving and sealcoating	Apr/80	100%
	W-0344	Schedule 2 Highways	Various District Highways	2.2 km	1 Cattle Underpass, 6 Cattleguards Fence repair and new fence	Apr/80	100%
	N-0373	Kamloops District Highways	Various District Highways	1793 m	Guardrail installed	Nov/80	100%
Salmon Arm							
	C-0124	Minor Betterments under Day Labour					
	C-0124	Intersection of Trans-Canada Hwy. #1 (Arterial 683R) and First Avenue S.W. (District of Salmon Arm Road)	Km 76.48 to 76.81, Seg. 0935	0.33 km	Construction and paving of left turn slots and acceleration lanes	May/80	100%
	C-0124A	Ford Road #36	Km 0 to 0.75	0.75 km	Reconstruction -grade revision, ditching, widening & gravelling	Apr/80	98%
	C-0124A	Des Fosses #90	Km 0 to 1.3	1.3 km	Regravelled	Apr/80	100%
	C-0124A	Hilltop #403	Km 0 to 0.97	0.97 km	Regravelling part of 1978 reconstruction	May/80	100%
	C-0124A	Kyte Road #108	Km 0.2 to 1.0	0.8 km	Reconstruction-slashing and grubbing completed-stumps still to be burned	Oct/80	100%
	C-0124A	Wuorri Road #57	Km 0 to 0.69	0.69 km	Reconstruction-ditched, widened and regravelled	June/80	100%
	C-0124A	Sorrento-Eagle Bay Road #67	Km 25.0 to 27.5	2.50 km	Regravelled	Sept/80	100%
	C-0124B	Kamloops-Shuswap Road #223	Km 24.85 to 26.35	1.5 km	Gravelling-completion of 1979 reconstruction	May/80	100%
	C-0124B	Chase Bridge Road #193	Km 1.0 to 4.5	3.5 km	Ditched and regravelled	Apr/80	100%

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Region and Highway District	Project No. (if any)	Name of Road	Extent of Work (Location of Work or initial and Terminal Points)	Distance of Work (km)	Description of Work State whether new construction or Reconstruction of the Latter, State also whether new diversion, widening, realignment, grade revision, etc. See note	Date Commenced	% Work Completed at March 30/81
	C-0124C	Branchflower Road #356	Km 0 to 0.79	0.79 km	Reconstruction-grade revision, ditching, widening and gravelling	May/80	100%
	C-0124C	Smith Road #325	Km 0 to 1.0	1.0 km	Reconstruction-ditched, widened and gravelled	May/80	100%
	C-0124C	Paxton Valley Road #294	Km 21.53 to 22.53	1.0 km	Reconstruction-ditched, widened and regravelled	June/80	100%
	C-0124C	Douglas Lake Road #292	Km 24.96 to 25.96	1.0 km	New gravel	Apr/80	100%
	C-0124C	Back Road #291	Km 4.28 to 6.28	2.0 km	Completion of gravelling of 79/80 reconstruction	Nov/80	100%
	C-0124D	Evans Road	Spot work	0.7 km	Gradall ditching	Sept/80	100%
			Spot work	0.3 km	Regravelling	Sept/80	100%
	C-0124D	Hilliam Road #424	Km 0.13 to 0.73 (Indian Reserve Boundary)	0.6 km	Clearing, grubbing and installing fence on south half of road R/W	Apr/80	100%
	C-0124D	Scotch Creek Wharf Road #425	Km 0.4 to 0.81-west fence line	0.41 km	Replaced existing fence with new fence on west right-of-way line	Apr/80	100%
	C-0124D	Line 17 Road #146	Right-of-way fencing	1.14 km	Ministry crew replaced old fence	May/80	100%
	C-0124E	Okanagan Highway #97A and Swansea Road #668	Km 22.28 to 22.48 - Hwy. 97A Km 0 to 0.1 of Swansea	0.2 km 0.1 km	Reconstruction - relocation of Swansea access to Highway 97A with widening and paving of both roads to accommodate turn-slots	May/80 May/80	100% 100%
	C-0124E	Tredgett Road #672	Km 0 to 0.5	0.5 km	Reditched and regravelled	July/80	100%
	C-0124E	Sommerville - Husted Road #664	Km 1.2 to 1.6	0.4 km	Reconstruction-grubbed, ditched,		

Statement as to major Highway Work (Day Labour only)
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C-0124E	McLean-Sawmill Road #651	Km 0 to 0.6	0.6 km	Reconstruction-grubbed, ditched, widened and gravelled	May/80	100%
C-0124E	Johnson-Howard Road #633	Km 0.17 to 1.00	0.83 km	Reditched and regravelled	July/80	100%
C-0124E	Barnes Road #619	Km 0 to 0.2	0.2 km	Reditched and regravelled	May/80	100%
C-0124E	Westman Road #522	Km 0 to 0.23	0.23 km	Reditched and regravelled	May/80	100%
C-0124E	Sederberg Road #657	Km 0 to 1.1	1.1 km	Gravelling of 79/80 reconstruction	May/80	100%
C-0124E	Mizon Road #647	Km 0 to 0.4	0.4 km	Reditched and regravelled	July/80	100%
C-0124E	Hickson Road #630	Km 0.02 to 0.92	0.9 km	Regravelled	July/80	100%
C-0124E	Okanagan Highway #97	Concrete wall - 82 m long x 2.4 m high x 1.2 m in thickness	82 m	Construction of stabilization wall between Highway 97A and Mara Lake to prevent erosion	Apr/80	100%
C-0261	Fredrickson Road #105	Km 0 to 1.4	1.4 km	Regravelled	Apr/80	100%
C-0262	Duck Range Road #261	Km 8.75 to 11.25	2.5 km	Regravelled	July/80	100%
C-0262	Squilaz-Turtle Valley Rd. #447	Km 4.0 to 5.8	0.87 km	Reconstruction-realignment, grade revision, ditching and widening	Aug/80	40%
C-0263	Chase-Falkland Road #194	Km 7.72 to 12.08	4.36 km	Gravelling - completion of road reconstructed in 78/79 and 79/80	Jan/80	100%
C-0263	Chase-Falkland Road #194	Km 38.0 to 39.0	1.0 km	Gravelling - completion of road reconstructed in 79/80	Apr/80	100%
C-0264	Bequelin Road #137	Km 0 to 0.2 and 1.0 to 1.2	0.4 km	Reconstruction-minor realignment and grade revision. Ditching and widening	Apr/80	100%
C-0265	Cambie-Solsqua Road #617	Km 6.38 to 7.51 (Km 6.08 to 6.38 is rock for rip-rap and not complete)	1.13 km	Reconstruction - realignment, grade revision, ditching and widening	Sept/80	100%

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	C-0265	Cambie-Solsqua Road #618	Km 7.51 to 7.76 (C.P.R.)	0.25 km	Reconstruction - approaches to Cambie Bridge #96 which is being raised, widened and rebuilt	Sept/80	75%
	C-0266	Holding Road #451	Km 4.91 to 5.25	0.34 km	Completion of reconstruction and gravelling of approaches to Holding Bridge #6063	May/80	100%
	C-0266	Holding Road #451	Km 4.91 to 5.25	0.34 km	Paving of approaches to new Holding Bridge #6063	July/80	100%
	C-0274	District Roads	N/A	10.50 km	Gradall ditching and culvert replacement on various roads throughout the District	May/80	100%
	C-0458	Sunnybrae-Canoe Point Rd. #28	Km 16.83 to 17.31	0.48 km	Reconstruction - realignment, grade revision, ditching and widening. Rock blown and hauled for rip-rap along Shuswap Lake	Sept/80	90%
	C-0459	Barnhartvale Road #277	Km 0 to 0.42	0.42 km	Gravelling portion of road reconstructed in 79/80	July/80	100%
	C-0459	Barnhartvale Road #277	Km 4.5 to 5.0	0.5 km	Gravelling existing road	July/80	100%
	C-0460	Line 17 Road #146	Km 4.6 to 5.1	0.5 km	Reconstruction - realignment and grade revision to improve approach to rebuilt MacAulay Bridge #6068. Road ditched and widened.	June/80	100%
	C-0460	Line 17 Road #146	Various locations	3.9 km	Spot gravelling	July/80	100%
	W-0345	Schedule 2 Fencing - Rebuilding of existing farm fencing according to Ministry Specs. - Continuing Project. Trans-Canada Highway #1	4 locations	4.72 km	Fence replaced by Contract	Oct/80	100%

Statement as to major Highway Work (Day Labour only)
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		Kamloops-Vernon Highway #97	8 locations	6.08 km	Fence replaced by Contract	Aug/80	100%
		Grindrod-Salmon Arm Hwy. #97B (655R)	2 locations	1.47 km	Fence replaced by Ministry crews		100%
	N-0374	Trans-Canada Highway #1	Sub. 0960 - Sicamous to Salmon Arm District East Bdy.	2,342 meters	Placement of Type A guardrail where required and the removal of some Type B guardrail	Continuing Project	
	C-0265	Maier Road #174	Km 0.0 to 0.6	0.6 km	Recapped with pulvi-mix	July/80	100%
	C-0265	Trans-Canada Highway #1 and Swansea Road #668	Intersection	0.3 km	Pulvi-mixed intersection relocation	July/80	100%
	C-0265	Malakwa Loop Road #643	Km 0 to 2.1	2.1 km	Reditched and regravelled	July/80	100%
Vernon	C-0267	Rte. 6 Vernon - Slocan	Km 40.33 to 44.33 (Seg. 1960)	3.20 km	R.C. Realignment and widen	Nov/79	80%
	C-0267	Rte. 6 Vernon - Slocan	Km 44.33 to 65.33 (Seg. 1960)	16.80 km	R.C. Realignment and widen	May/80	80%
	C-0463	Pleasant Valley Hwy. 153B	Km 0 to 1.611	0.97 km	R.C. New diversion	May/79	60%
	C-2658	#138 Westside	Km 39.55 to 39.85	0.27 km	R.C. New diversion	Jan/80	90%
	C-2658	#138 Westside	Km 39.85 to 40.22	0.33 km	R.C. New diversion	Jan/80	90%
	C-2658	#138 Westside	Km 40.22 to 41.60	1.24 km	R.C. New diversion	Jan/80	90%
	C-2658	#138 Westside	Km 41.60 to 42.60	1.45 km	R.C. New diversion	Feb/78	90%
	C-2658	#544 Deighton	Km 0 to 1.00	0.90 km	N.C. new road	Jan/80	90%
	C-0125	#144 - 39th Avenue	Km 0.21 to 0.40	0.15 km	N.C. new road	Feb/81	80%
	C-0125	#144 - 39th Avenue	Km 0 to 0.21	0.16 km	R.C. grade revision	Feb/81	80%
	C-0468	#49 Grandview Bench	Km 6.92 to 8.90	0.20 km	R.C. Realignment and widening	May/80	10%
	C-0468	#49 Grandview Bench	Km 8.90 to 9.65	0.67 km	R.C. Realignment and widening	May/80	90%

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	C-0468	#49 Grandview Bench	Km 9.65 to 10.50	0.60 km	R.C. Realignment and widening	May/80	70%
	C-0469	#102 Okanagan Landing	Km 0 to 0.75	0.75 km	Drainage work in preparation for new pavement	Sept/80	10%
	C-0462	#4 Bella Vista	Km 3.00 to 3.54	0.54 km	Recap with P.M. (over R.M.)	Sept/80	100%
	C-0462	#13 Black Rock	Km 0.89 to 1.29	0.40 km	Recap with P.M. (over R.M.)	Sept/80	100%
	C-0462	#28 Dixon Dam	Km 4.83 to 5.63	0.80 km	Recap with P.M. (over R.M.)	Sept/80	100%
	C-0462	#117 Lefoy	Km 0 to 0.05	0.05 km	New P.M. surface	Sept/80	100%
	C-0462	#153 Mountview	Km 1.32 to 1.75	0.43 km	New P.M. surface	Sept/80	100%
	C-0462	#19 Pottery	Km 0.60 to 1.32	0.72 km	Recap with P.M.	Sept/80	100%
	C-0462	#201 Rimer	Km 0 to 1.15	1.15 km	Recap with P.M.	Sept/80	100%
	C-0462	#143 Shaw	Km 0 to 0.90	0.90 km	New P.M. surface	Sept/80	100%
	C-0462	#131 Tronson	Km 1.90 to 2.42	0.52 km	Recap with P.M. (over R.M.)	Sept/80	100%
	C-0466	#75 Lumby-Mabel Lake	Km 3.60 to 5.70	2.10 km	Recap with P.M.	Aug/80	100%
	C-0466	#130 Trinity Valley	Km 0 to 0.50	0.50 km	Recap with P.M. (over R.M.)	Aug/80	100%
	C-0466	#130 Trinity Valley	Km 0.50 to 1.00	0.50 km	Recap with P.M.	Aug/80	100%
	C-0467	#66 Silver Star	Km 0.62 to 2.74	2.12 km	Recap with P.M.	Aug/80	100%
	C-0467	#66 Silver Star	Km 9.66 to 13.89	4.23 km	New P.M. surface	Aug/80	100%
Penticton	C-0268	McLean Cr. Road	Km 5.5 to 8.5 (Skaha Lk Rd)	3.0 km	Realign, regrade and reconstruct	1979	100%

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	C-0475	Princeton - Summerland	Km 15.5 to 34.7	15.0 km	Widen, realign and pave	1980	40%
	C-3660	Kruger Hill - Hwy. 97	C.P.R. Crossing - West	5.1 km	Widen for passing lane	1978	60%
	C-0472	Princeton Area Roads	Misc. Area Roads	4.0 km	Widen, realign and pave	1980	100%
	C-0473	Keremeos Area Roads	Misc. Area Roads	3.0 km	Widen, realign and pave	1980	100%
	C-0474	Oliver Area Roads	Misc. Area Roads	5.0 km	Regrade and widen	1980	100%
Merritt	C-0127B	No. 151 Botanie Creek	Km 7.5 to 10.0	2.5 km	Reconstruction, gravelling	Sept/80	100%
	C-0127B	No. 151 Botanie Creek	Km 0.0 to 1.4	1.4 km	Reconstruction, paving	Oct/80	100%
	C-0127D	No. 14 Coalmont	Km 12.8 to 13.1	0.3 km	Reconstruction, realignment and paving	Aug/80	100%
	C-0127D	No. 14 Coalmont	Km 13.3 to 13.6	0.3 km	Reconstruction, realignment and rock cut	Feb/81	80%
	N-0378	No. 1 Trans Canada	Various sites throughout total length	7596 m	Reconstruction, install 27 in. no post guardrail	May/80	100%
	C-0127C	No. 173 Highland Valley	Km 9.3 to 10.4	1.1 km	Reconstruction, road bed construction and paving	June/80	100%
	C-0127C	No. 173 Highland Valley	Km 15.9 to 17.1	1.2 km	Reconstruction, remix	July/80	100%
	C-0127G	No. 76 Sunshine Valley	Km 0.0 to 0.86	0.86 km	Reconstruction, paving	May/80	100%
	C-0269	No. 5 Merritt-Kamloops	Km 44.32 to 53.92	9.60 km	Reconstruction, shoulder widening	Apr/80	100%
	C-3796	No. 5 Princeton-Merritt	Km 78.26 to 78.66	0.40 km	Reconstruction, realignment, grade revision and resurface	May/80	100%
	C-3796	No. 5 Princeton-Merritt	Km 75.96 to km 76.76	0.80 km	Reconstruction, realignment, grade revision	May/80	100%
	C-0476	No. 178 Meadow Creek	Km 24.05 to 26.85	2.80 km	Reconstruction, realignment, grade revision and surfacing	July/80	100%

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	N-0378	No. 5 Merritt-Kamloops	Miscellaneous sections	724 m	Installation no post guardrail 27"	Oct/80	100%
	W-0349	No. 5 - Princeton-Merritt	A) Initial point is km 77.09 & terminal point is km 78.66 (on Lt)	1.57 km	Schedule 2 - Fencing - Install ± 565 posts, string and stretch -10,000 ft of wire and install wire stays		
			B) Initial point is km 77.09 & terminal point is km 78.56 (on Rt)	1.47 km		June/80	100%
	W-0349	No. 1 Trans Canada	A) Initial point is km 104.35 & terminal point is km 104.73 (on Lt)	0.38 km	Schedule 2 - Fencing - Install 483 wood and 9 metal posts, string and stretch ± 5250 ft. of wire and install wire stays	May/80	100%
			B) Initial point is km 105.50 & terminal point is km 105.67 (on Lt)	0.17 km			
			C) Initial point is km 104.45 & terminal point is km 105.50 (on Rt)	1.05 km			
	W-0349	No. 5 - Princeton-Merritt	Initial point is km 40.77 and terminal point is km 42.70 (on Lt)	1.93 km	Schedule 2 Fencing-Install 504 wooden and 7 metal posts; string & stretch ± 6300 ft of wire and install wire stays	May/80	100%
	W-0349	No. 5 - Princeton-Merritt	Initial point is km 54.52 and terminal point is km 58.78 (on Lt)	4.26 km	Schedule 2 Fencing-Install ±790 posts, string & stretch ± 13,900 ft of wire and install wire stays	May/80	100%
	W-0349	No. 17 Coldwater Road	Initial point is km 14.05 and terminal point is km 15.74	1.69 km	Schedule 2 Fencing-Install ± 700 posts, string and stretch ± 11,000 ft. of wire and install wire stays	Feb/81	100%

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	W-0349	No. 5S Princeton-Merritt and No. 5N Merritt-Kamloops	A) No. 5S-Initial point is km 65.57 and terminal point is km 66.39	0.82 km	Schedule 2 Fencing-Install ± 625 posts, string and stretch ± 11,500 ft. of wire stays	May/80	100%
			B) No. 5N-Initial point is km 11.58 and terminal point is km 12.98	1.40 km			
			C) No. 5S-Initial point is km 69.15 and terminal point is km 69.94	0.79 km			
			D) No. 5S-Initial point is km 47.06 and terminal point is km 47.56	0.50 km			
Lillooet	C-4170	Duffey Lake Road #99	Cinnamon Campsite-Boulder Cr.	8.8 km	Reconstruction, realignment	Oct/80	25%
	C-0478	Lillooet - Pioneer #40	75 km sec. & Moha Canyon	2.1 km	Reconstruction, widening	Sept/80	100%
	C-0270	Gun Lake Road #90 Gun Lake South #104	Gun Lake Road System	16.8 km	Reconstruction, realignment clearing R/W, grade construction	June/80	50%
	C-0477	Hop Farm Roads	Reynolds Road #6, Hollywood Crescent #110, D'Este Road #33, Manson Road #32, T & T Road #34 and Taylor Road #2	3.7 km	Reconstruction, widening, ditching gravelling, pulvi mix	June/80	60%
	C-4073	Bridge Approachments	Nugget Arterial #662R	1.0 km	New construction, grade construction, pulvi-mix	Aug/80	90%
	C-4073B	Lillooet - Cache Creek #12B	Glen Fraser Overpass & Approaches	0.3 km	New construction	Aug/80	100%
100 Mile House	C-0272	Hendrix Lake	Boss Bridge to Hendrix Lake 15.25 km to 34.35 km	19.10 km	Remove sharp corner, widen and gravel	Apr/80	75%
	C-0480	Bradley Creek	Jct. Eagle Creek-Gravel Pit 0.00 to 4.8 km	4.8 km	Widen, ditch and gravel	Sept/80	100%
	C-0481	100 Mile House Arterial	4th Street to Horse Lake Road	0.8 km	Install curb and gutter	July/80	100%

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	C-0580	Canim Lake & Exeter Truck Route	Jct. Cariboo Highway, New Intersection	3.45 km	New construction, intersection of Canim Lake Rd. & Exeter Truck Route relocated 1 km north	May/80	100%
	C-0608	Subdivision Roads Green Lake Area	Various Subdivision roads	9.37 km	Widen and gravel in preparation for drum mix	July/80	100%
	C-0630	Pavillion - Clinton	End of existing blacktop to Kelly Lk Park 5.86 to 18.18 km	12.32 km	Gravel	Oct/80	100%
	C-4176	93 Mile-Little Fort #24	Bridge Lake to District Bdy.	16.82 km	New construction	July/80	5%
	C-0272	Canim Lake #318	Eagle Creek Bridge - Christmas Creek	2.8 km	New construction	Oct/80	85%
	C-0273	Lac La Hache Streets	Various Roads Lac La Hache Area	11.2 km	Widening, ditch and gravel in preparation for drum mix	June/80	100%
	C-4487	83 Mile #368	Green Lake North Road Westerly to Walsh's 1.03 to 11.71 km	10.41 km	New construction	May/80	100%
Kelowna	C-0130	Elliott Road #192	Km 2.1 Reece Rd to km 2.6	0.50 km	Reconstruction, gravel 100 m retaining wall	July/80	100%
	C-0130	Route #97	South of Summerland	0.50 km	Rip-rap along lakeshore	Aug/80	100%
	C-0130	Trepanier Road #218	Km 0.00 to 4.83	4.83 km	Regravel	Oct/80	100%
	C-0130	Fish Lake Road #233	Various locations	2.00 km	Reshape and regravel	Sept/80	100%
	C-0130	Berry, Oyama, Bond Roads	Various locations	0.80 km	Major reditching and asphalt ditch lining	Aug/80	100%
	C-2660	Westside Road #172	Km 15.6 to 18.0	2.40 km	Completed reconstruction 3/4" crush and class B asphalt	June/80	100%

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C-4163	Asquith Road #976	Km 0.0 to 0.68	0.68 km	3/4" crush gravel and class B asphalt	Sept/80	100%
C-4163	Traders Cove Rd. #228 and Siemens Road #787	Km 0.0 to 0.94	0.94 km	3/4" crush gravel and class B asphalt	Sept/80	100%
C-4163	Elliott Road #192	Km 2.1 to 2.6	0.50 km	3/4" crush gravel and class B asphalt	Sept/80	100%
C-4163	Route #97-North of Winfield	3 sections between Winfield and Oyama	2.48 km	5 cm recap of class B asphalt	Sept/80	100%
C-4165	Route #97 at Summerland	Summerland hill	0.63 km	recapped several sections with class B asphalt	June/80	100%
N-0376	Route #97	Westbank to Summerland	1.03 km	No post guardrail program	July/80	45%
C-3805	Springfield Road #685	Wilkinson to Burtch - part of amalgamation commitment	0.61 km	Reconstruction, gravel and class B asphalt	July/80	100%
C-3805	Springfield Road #685	Burtch to Cooper - City rural area	1.63 km	Reconstruction, gravel and class B asphalt	Sept/80	100%
C-3805	Sexsmith Road #43	Km 1.23 to km 1.60	0.37 km	Diversion - excavation	Aug/80	90%
C-3805	Lewis Road #85	Km 0.0 to km 1.21	1.21 km	Reconstruction and gravel	July/80	60%
C-3805	Sundry roads	East Kelowna area	15.00 km	Prepare for and grade chip seal H.F. 150 oil	June/80	100%
C-3805	Hughes Road #152	Km 0.0 to km 1.4	1.40 km	Regravel	Oct/80	70%
C-3805	Route #97	Vicinity of Reid's Corner and vicinity of Stremel Road		Culvert installation by horizontal coring method	Feb/80	100%
Region 3 Nelson						
2559	Hwy. 3A Nelson - Balfour	Km 18.1 to 18.4	0.3 km	Realign & widen Crescent Beach		100%

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	2559	Hwy. 3A Nelson - Balfour	Km 11.4 to 11.7	0.3 km	Realign & widen and improve	Apr/80	45%
	4488	Hwy. 6 Salmo - Nelway	Km 19.3 to 22.4	2.6 km	Passing land Black Bluffs S.	Dec/79	100%
	C-0501	Hwy. 3A Taghum Bridge Approach		0.2 km	Reconstruct New diversion	Sept/80	100%
	C-0502	Martens #106	Km 1.0 to 1.2	0.2 km	New construction		100%
	C-0204	Hwy. 3A Nelson - Balfour	Misc.	2.0 km	Shoulder widening and paving		100%
	C-0131	Katasonoff Rd.	Km 0.0 to 0.3	0.3 km	Widen and improve		100%
	C-0635	Filipoff Rd.	Km 0.0 to 0.2	0.2 km	Realign, widen and improve		75%
	C-0503	Lower Passmore Rd. #220	Km 0.0 to 0.8	0.8 km	Realign and improve		100%
	C-0504	Pend D"Oroella Rd.	Km 7.4 to 7.5	0.1 km	Widening		100%
	C-0502	Samsonoff Rd. #305	Km 0.0 to 1.3	1.3 km	Realign, widen and improve		70%
	C-0131	Bourgeois Rd.	Km 0.0 to 0.2	0.2 km	Realign and widen		100%
	C-0131	Curwen	Km 0.0 to 0.4	0.4 km	Widen and improve		90%
	C-0131	Sheep Crk.	Km 0.5 to 2.0	1.5 km	Realign, widen and improve		100%
	C-0131	Boulder Crk.	Km 0.0 to 1.5	1.5 km	Realign, widen and improve		100%
	C-0502	Slocan Valley West	Km 4.9 to 5.1	0.2 km	New Construction		100%
Rossland	C-3733	Broadwater Road	Castlegar Ferry to Evins Corner	30 km	Reconstruction - widening	Aug/80	100%

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Bill #5	C-0505 & C-3733	Broadwater, Waterloo, Bridgewiew Ootischenia Robson Streets, OOtischenia Turn Slots	Roads in Castlegar Area	8.7 km	New pavement	Aug/80	100%
	C-0015	Castlegar-Nelson #3A	Junction 3A and Rosedale Road	0.3 km	Construct left turn slots	Aug/80	100%
	C-0017	Red Mountain Rd., Bluebird Rd. *Old Mill Rd., Christie Rd.,* Lower China Creek	As stated	7.2 km	Pavement rejuvenation	June/80	100%
	C-4290	Waneta-Nelway	East boundary D.L. 9525 to D.L. 14439	5.5 km	Reconstruction, realignment	May/80	100%
	C-0604	Blueberry Paulson Highway #3	Replace bottoms in Blueberry	N/A	Reconstruction of culvert beds	Sept	100%
	C-0382	Highway #3 and #22	Warrented section on Highway	2172m	Guardrail installation	Sept	100%
	B-0254	Castlegar Ferry Ramps	Construct Ferry Ramps	240'	Replace old wood ramps with rock fill	Jan	30%
Grand Forks	C-3666	Rock Creek Kelowna Highway #33	Reconstruct &/or widen Km 0.5 to km 13.5	13.0 km	Reconstruction of badly deterior-ation poorly aligned road	June/80	69%
	C-0018	Northfork Highway #30	Reconstruction &/or widen 30.5 to Km 43.5	13.0 km	Mostly widening and reconstruction to better alignment	Apr/80	90%
	C-0019	Gilpin Road #28	Reconstruction and/or widen Km 3.20 to Km 6.00	2.8 km	Mostly reconstruction onto proper dedicated right-of-way	Apr/80	41%
	C-0133	Sundry roads in Grand Forks, Greenwood, Rock Creek & Beaverdell	Upgrading short and long sections of 25 roads	28.0 km	Upgrading, gravelling, blade mix, graded seal, etc.	Apr/80	100%
	N-0383	Guardrail installation	On controlled access Highway #3 & Rock Creek-Kelowna #33	2.6 km	Install 690 mm guardrail	July/80	100%
	W-0352	Highway Fencing	Highway #3 & #33	15.7 km	Renew old fencing & new fencing	June/80	100%

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New Denver	C-3740	Nakusp Hot Spring	4 km to 6 km	2 km	Widening	May/80	70%
	C-4147	Red Mountain Road	North 5 km	5 km	Reconstruction	May/80	40%
	C-0020	Highway #6, Monashee	Monashee Section	6 km	Reconstruction	May/80	45%
	C-0021	Lardeau Area Roads	Argenta-Johnsons Landing	2 km	Reconstruction	May/80	20%
	N-0384	Guardrail	Throughout District		Guardrail Installation	July/80	100%
	C-0506	Kane Creek	13 km East of New Denver			Sept/80	20%
	C-0507	Fauquier Streets	Fauquier	1 km	Repave	Aug/80	100%
	C-0508	Nakusp Roads	Nakusp	1 km	Widening	Oct/80	10%
Cranbrook	C-0024	Cranbrook & Kimberly Streets	Various Locations	23.2 km	Double Flushcoating	June/80	100%
	C-0023	Cranbrook Streets	Various Locations	3.1 km	0.6 new construsction, 0.7 Reconstruction, Grade Revision, Widening, 1.8 Gravelling	June/80	100%
	C-0135	Cranbrook Streets & Roads	Various Locations	5.0 km	0.6 Road Mix, 1.5 Double Flushcoat, 2.9 reconstruction, road revision & gravelling	June/80	100%
	C-0135	Kimberley Foreman Area	Various Locations	6.1 km	0.4 Reconstruction, Widening 5.7 Gravelling	Nov/80 Mar/81	100%
	C-0135	Yahk Foreman Area Roads	Various Locations	0.4 km	Reconstruction, Widening, Double Flushcoating	May/80	100%
	C-0135	#95A Kimberly Highway	Km 56.2 - 56.4	0.2 km	Reconstruction, Grade Revision, Gravelling & Road Mix Paved	June/80	100%

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	C-0135	#84 Kelly Road	Km 0.0 - Km 0.7	0.7 km	Reconstruction, Grade Revision, Widening, Gravelling	May/80	100%
	C-0135	#612 Lakit Road	Km 0.0 - Km 0.8	0.8 km	New Construction, Gravelled	July/80	100%
	C-0135	#128 River Avenue	Km 0.0 - Km 0.1	0.1 km	New Const. Double Flushcoat	July/80	100%
	C-0135	Southern Transprovincial Hwy. #3 Rampart Rest Area	Km 88.2 - Km 88.6	0.4 km	Left Turn Lane, Decelleration Lane Reconstruction, Widening, Gravelling	Feb/81	100%
	C-2762	#18 St. Mary's Lake Road	Km 3.5 - Km 4.6	1.1 km	Gravelled & Road Mix Paved	July/80	100%
			Km 8.7 - Km 12.3	3.6 km	Reconstruction, new diversion and gravelling	Aug/80	85%
	C-0510	#3 S.Transprovincial Hwy. (Ryan Rest Area)	Km 16.4 - Km 16.8	0.4 km	Left Turn Lane & Decelleration Lane Reconstruction, Widening, Plant Mix	July/80	100%
	C-0509	Kimberly Highway #95A	Km 29.0 - Km 56.2	27.2 km	Shoulder Widening, Gravel Shoulders (Sealcoat by headquarters Seal Coating Crew)	June/80	100%
	N-0385	Trunk Highway	Various Locations	1200 m	Replace 46 cm Guardrail with 60 cm No Post Guardrail	Sept/80	100%
Fernie	C-0511	S.T.P. Hwy #3	Carbon Creek Approaches Subdiv. 1395 - 74.40 km to 75.01 km	0.61 km	Reconstruction - realignment of highway for new bridge. Place gravel, crush & pave with hot mix	Aug/80	100%
	C-3069	Corbin Road #26	0.00 km to 3.90 km	3.90 km	Reconstruction - realignment, ditch and gravel	July/80	10%
			3.90 km to 23.04 km	19.14 km	Place crush & Liquid calcium	June/80	100%
	N-0386	S.T.P. Hwy. #3	Subdiv. 1385 - 43.23 km to Subdiv. 1395 - 81.60 km	99.38 km	Reconstruction - replace 460 mm guardrail with new 690 mm guardrail	Aug/80	100%
	W-0354	S.T.P. Hwy. #3	Subdiv. 1385 - 31.77 km to Subdiv. 1385 - 36.02	4.25 km	Reconstruction - replace fence with new post and stays	May/80	100%

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	B-0249	Corbin Road #26 (Haynes Bridge)	10.80 km to 10.83 km	0.03 km	Reconstruction - install box girders grout, pave, install rails	Sept/80	100%
	C-0025	Jaffray-Grasmere Roads	Rosen Lake East 0.88 km to 1.90 km	1.02 km	Reconstruction - pulvimix	June/80	100%
			Elko-Grasmere Rd. 22.47 km to 24.57 km	2.10 km	Reconstruction - pulvimix	July/80	100%
			Robbins Rd 0.00 km to 0.24 km	0.24 km	Reconstruction - Ditch & Gravel	Aug/80	100%
			Baynes Lake Loop	1.75 km	Reconstruction - Sand Seal	July/80	100%
			Jaffray Shop	1.22 km	Reconstruction - Inverted Prime	Aug/80	100%
	C-0026	Fernie - Hosmer - Elko Roads	Elko-Grasmere Rd. 0.00 km - 1.00 km	1.00 km	Reconstruction - pulvimix	July/80	100%
			Cascade Ave., 0.50 - 1.32 km	0.82 km	Reconstruction - pulvimix	July/80	100%
			Alexander St. 0.09 km - 0.29 km	0.20 km	Reconstruction - pulvimix	July/80	100%
			Main St. (Elko) 0.22 km - 0.65 km	0.43 km	Reconstruction - pulvimix	July/80	100%
			Riverside, Beach Ave., & Burma Rd.	0.55 km	Reconstruction - pulvimix	Aug/80	100%
			Victoria St. (Hosmer)	0.70 km	Reconstruction inverted prime	Aug/80	100%
			Dowsing Ave. (Elko)	0.21 km	Reconstruction inverted prime	Aug/80	100%
			Colomb St. (Elko)	0.50 km	Reconstruction inverted prime	Aug/80	100%
	C-0027	Elk Valley Hwy. #4	Km 6.21 to Km 15.21	9.00 km	Reconstruction - widening of shoulders - deitching, fencing	Sept/80	45%
	C-0136	Minor Betterment Projects					
		Sander Racks Fernie Yard	Fernie Yard		Construction, sander & plow racks	Apr/80	100%
		Asphalt Tank Walkway	Fernie Yard		Construction asphalt tank & walkway	Apr/80	100%
		Sander Racks Jaffray Yard	Jaffray Yard		Construction, sander & plow racks	Oct/80	100%
		Asphalt Tanks & Walkway Jaffray	Jaffray Yard		Construction asphalt tank & walkway	Oct/80	60%
		Sander Racks - Sparwood	Sparwood Yard		Construction, sander & plow racks	Feb/81	100%
		Asphalt Tanks & Walkway Sparwood	Sparwood Yard		Construction asphalt tank & walkway	Mar/81	60%

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	C-0136	Morrissey Avalanche Track	Morrissey		Construction avalanche mounds in new track	July/80	100%
		Elko-Roosville Hwy. #93	0.00 km to 36.82 km	36.82 km	Reconstruction - repair damage to road bed & pavement	Apr/80	100%
		S.T.P. Hwy. #3 & Elko-Roosville Hwy. #93	Jaffray Area		Reconstruction - repair damage to fence after spring & winter damage wild life	May/80	100%
	C-0136	Dickens Road	0.00 km to 4.39 km	4.39 km	Reconstruction - sand seal road	Aug/80	100%
	C-0136	All District Roads	District		Reconstruction - install road name sign	Apr/80	100%
		Rock Creek Road	0.00 km to 2.14 km	2.14 km	Reconstruction - ditch and gravel	Oct/80	80%
	C-2569	Kikomum Newgate Road	30.15 km to 35.00 km	4.85 km	Reconstruction - gravel and place calcium	May/80	100%
	C-3668	S.T.P. Hwy. #3 Backslope	Subdivision 13.95 - 0.00 km to 31.00 km	31.00 km	Reconstruction widening construct pull out lanes for passing vehicles	Oct/80	50%
	C-3976	Elk Valley Hwy. #4	Brule Creek to Elkford Boundary	7.00 km	Construction of fence for Schedule ll Hwy.	May/80	100%
Golden	C-0137D	Holmes Deaken #365	Km 0.00 - Km 1.3	1.3 km	Reconstruction - widening and re-alignment	May/80	100%
	C-0137E E	Seward #33	Km 0.6 - Km 1.1	0.5 km	Reconstruction - widening, grade revision and realignment	May/80	100%
	C-137H	Dorney #85	Km 0.0 - Km 0.4	0.4 km	Reconstruction - widening, grade revision and realignment	Sept/80	100%
	C-0137J	Marshall #159	Km 0.0 - 0.3	0.3 km	Reconstruction - widening, grade revision and realignment	Sept/80	100%
	C-0137L	Toby Creek #4	Km 0.0 - Km 17.7	17.7 km	Miscellaneous gravelling and shoulder stabilization	May/80	100%
	N-0137L	Trans Canada #1	Various warranted areas on T.C.H. #1	78.8 km	Placing Type "A" guard rail in accordance with warrants indices	Sept/80	100%

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	C-0028	Windermere Streets #220	Windermere Townsite		Paving to upgrade various streets	June/80	100%
Revelstoke	No 31	Westside Road	Km 0.61 to Km 1.41	0.80 km	New Construction		75%
	No 31	Westside Road	Km 0.41 to Km 4.00	2.59 km	New Construction		10%
	No 31	Balfour Kaslo Galena Bay Highway	Km 28.34 to Km 30.34	2.0 km	Reconstruction (realignment and grade revision)		10%
	No 830	Ward Road	Km 0.0 to Km 1.64	1.64 km	Reconstruction (realignment and grade revision)		85%
	No 205	Mychulac	Km 0.0 to Km 0.89		Reconstruction (realignment and grade revision)		30%
	No 1	Trans Canada Highway	Bridge approaches - No 1202 Eagle River at Kay Falls	0.37 km	Reconstruction of approaches (realignment and grade revision)		100%
	No 1	Trans Canada Highway	Kay Falls Creek diversion and removal of No 1267 Kay Falls Creek bridge	0.08 km	Creek diversion and removal of No 1267 Kay Falls Creek bridge		100%
Creston	C-0139	Vance Rd. - Twin Bays Rd. &	Total length of Vance Rd. & majority of Twin Bays Rd. except isolated north end section	1.90 km	Repaving of both roads. Recycle Vance and grader mix of Twin Bays	May & Sept/80	100%
	W-0518	Highway #3	Creston area - Two sections	0.80 km	Schedule "2" Highways Fencing Program	Nov/80	100%
	C-0515 C-0139	Highways #3 & 3A	East side of Salmo-Creston Summit and Kootenay Lake area	23.00 km	Shoulder stabilization, widening & gravel. Includes widening of Kootenay Bay Ferry Landing	Apr & Oct/80	100%

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	N-0389	Highways #3 & 3A	Creston area & Kootenay Lake area	0.26 km	Shoulder preparation and installation of 690 mm No-Post guardrail	July/80	100%
	C-0031 C-0700	Area "A" - District Roads	Creston area roads misc. section	8.78 km	Reconstruction including drainage correction, widening & gravel	June/80	100%
	C-0030	Creston-Erickson #67	C.P.R. crossing easterly to Tooze Rd. junction - Erickson Area	2.10 km	Reconstruction-widening, drainage correction, gravelling, and oil stabilization	May/80	85%
	C-0031	Lakeview #198	Hwy #3A northeast for 0.29 km to tie to existing Lakeview area	0.29 km	New construction of junction and approach including drainage correction, gravelling & widening	July/80	100%
	C-0031	Nicks Island North #236	Hwy #3 north for 0.75 km to tie to existing Creston Area	0.75 km	New construction of junction and approach including widening, drainage correction, gravelling & M.F. Stabilizer	July/80	100%
	C-0517	Pilot Bay #225	Hwy #3A junction to 1.0 km southerly Kootenay Bay area	1.00 km	Reconstruction including widening, drainage correction & gravelling	July/80	100%
	C-0516	Hwy #3 Salmo-Creston	Avalanche Tower modifications Kootenay Pass area	5 Towers	Cross brace modification, hand winch installation & new security trap doors	Sept/80	100%
	C-0139	District Roads	Misc. area roads in Areas A & B	10.00 km	Shape and stabilize with Lignosulfonate	June/80	100%
	C-0030	District Roads	Misc. roads in Creston area	2.00 km	Shape and stabilize with cutback Asphalt	June/80	100%
Region 4 Prince George	C-4180	Upper Fraser Road	Giscome-Newlands	8.4 km	Reconstruction, realignment		75%
	C-4181	Misc. School Bus Routes	Misc. District Roads	23.1 km	Reconstruction, widen and gravel		80%
	C-0520	John Hart Highway 97 North	Patch paving km 77 to 107	30.0 km	Large patches on existing road		100%
	C-3636	Old Summit South Road	Northwood Rd - City Boundary	2.8 km	Reconstruction and gravelling		100%

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	N-0429	Guardrail Programs	Yellowhead 16 East, Hart #97	1.4 km	Install guardrail		100%
	W-0356	Fencing	Hart Hwy. & Yellowhead Hwy.	12.0 km	Install fencing		100%
Quesnel	C-0161	Cariboo Highway #97	2 Mile Flat	3.98	Reconstruction		100%
	C-0162 C-0521	Barkerville Highway #26	McLarry Bridge Revision	1.87 km	New construction, new route		90%
	P-C-0445	McLean Road #54	Km 0.0 to 1.29	1.29 km	Reconstruction		100%
		Booth Road #156	Km 0.0 to 0.29	0.29 km	Reconstruction		100%
		Vernon Road #671	Km 0.0 to 0.74	0.74 km	Reconstruction		100%
		Rau Road #103	Km 0.8 to 0.90	0.10 km	R/W clearing only		100%
		Quesnel Hixon Road	Lebourdais School Drainage	0.55 km	Ditching		100%
	C-0159	Milburn Lake Road #189	Km 0.0 to 0.59	0.59 km	Reconstruction		65%
	C-0160	Rawlings Road #197	Km 0.0 to 3.78	3.78 km	Reconstruction		65%
		Tinsdale Road #236	Km 0.0 to 0.10	0.10 km	Reconstruction		100%
	P-C-0445	Loop Road #155	Km 0.0 to 0.10	0.10 km	Reconstruction		100%
		Longbar Road #161	Km 0.0 to 2.00	2.00 km	Reconstruction		100%
		Longbar Road #161	Km 0.0 to 3.0	3.00 km	Fencing		100%
		Blackwater Road #58	Drainage easement by bus stop	0.15 km	Ditching		100%
		Blackwater Road #58	Km 8.0 to 8.45	0.45 km	Ditching		100%

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	Blackwater Road #58	Km 3.30 to 3.60	0.30 km	Ditching	100%
	Cameron Road #125	Km 0.0 to 1.09	1.09 km	Gravelling	100%
	Bjornson Road #177	Km 2.7 to 3.7	1.00 km	Gravelling	100%
	Paradise Road #25	Km 8.0 to 9.0	1.00 km	Gravelling	100%
P-C-0441A	Blackwater Road #58	Spot gravelling	8.05 km	Gravelling	100%
P-C-0442B	Cariboo Highway 97S	Maple Park	0.36 km	Contract paving	100%
	Balsam Street #278	Maple Park	0.18 km	Contract paving	100%
	Maple Drive #223	Maple Park	0.18 km	Contract paving	100%
P-C-0440	Valhalla #697	Km 0.0 to 0.54	0.54 km	District paving	100%
P-C-0440	Cedar Road #280	Km 0.50 to 0.57	0.07 km	District paving	100%
C-4186	Cariboo Highway #97	Alex Creek	0.09 km	Ditching	100%
PC-0439A	Dragon Lake Road #45	Km 0.51 to 1.30	0.79 km	Reconstruction	100%
	Wheeler Road #16	Km 0.0 to 0.84	0.85 km	Reconstruction	100%
	Datoff Road #72	Km 0.0 to 0.60	0.60 km	Reconstruction	100%
PC-0440	Valhalla Road #697	Km 0.0 to 0.54	0.54 km	Reconstruction	100%
	Cedar Road #280	Km 0.50 to 0.57	0.07 km	Reconstruction	100%
PC-0442A	Fraser Road #32	Dinwiddy Revision	1.00 km	Reconstruction	100%
	Fraser Road #32	Baker Hill S-Curves	0.70 km	Clearing only	100%
PC-0439C	Maple Drive #223	Red Bluff School to Elm Street	1.00 km	Shoulder widening	100%
PC-0439B	Cariboo Highway #97	Yendryas deceleration lanes	0.40 km	Shoulder widening	100%
	Cariboo Highway #97	Edwards Road deceleration lane	0.40 km	Shoulder widening	100%

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	PC-0442B	Balsam #278	Maple Park	0.18 km	New construction		100%
		Maple Drive #223	Maple Park	0.18 km	Shoulder widening		100%
		Cariboo Highway #97	Maple Park	0.36 km	Shoulder widening		100%
	PC-0445	Arnoldus #89	Km 0.3 to 0.70	0.40 km	Reconstruction		100%
		Leflar #124	Km 0.0 to 0.32	0.32 km	Reconstruction		100%
		Elm #281	Km 0.0 to 0.12	0.12 km	Ditching		100%
		Joy Road #814	Km 0.0 to 0.24	0.24 km	New construction		100%
		Cariboo Highway #97	Castle Rock Slide	0.15 km	Ditching		100%
		Lovelidge Road #704	Km 0.0 to 0.43	0.43 km	Ditching		100%
		Skyline #235	Garner Road to Indian Reserve	0.43 km	Ditching		100%
	C-0161	Cariboo Highway #97	Carson and Front Intersection	0.10 km	Reconstruction		100%
	PC-0445	McRae Road #208	Km 0.0 to 0.27	0.27 km	Reconstruction		100%
	PC-0445	Kivi Road	Km 0.0 to 0.36	0.36 km	Reconstruction		100%
		MacDonald Road #256	Km 0.0. to 0.41	0.41 km	Ditching		100%
		Fox Road #298	Km 0.0 to 0.19	0.19 km	Ditching		100%
		Beach Crescent #133	Drainage Easement	0.06 km	Ditching		100%
		Gook Road #30	Buried pipe at Beach Cr.	0.09 km	Ditching		100%
		Fraser Road #32	Approaches to Narcosli Br.	0.21 km	Reconstruction		100%

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	C-4460	Quesnel Hydraulic #60	Slides	2.60 km	Reconstruction and new construction	100%
		Quesnel Hydraulic #60	Larry Bells	0.50 km	Clearing only	75%
	PC-0441B	Nazko Road #59	South of Spehar Bridge	4.83 km	Reconstruction	100%
		Nazko Road #59		6.20 km	Spot gravelling	100%
		Nakzo Road #59	Ice fields	1.60 km	Reconstruction	100%
	PC-0445	Lyne Creek Road	Km 0.0 to 0.32	0.32 km	Reconstruction	100%
		McDougall Road #356	Km 0.0 to 6.40	6.40 km	Reconstruction	100%
		Beaver Lake Road #19		4.80 km	Spot Cleanup	100%
		Saunders Ave. #368	Km 0.0 to 0.30	0.30 km	Ditching	100%
		Morgan Road #180	Km 0.0 to 1.50	1.50 km	Gravelling	100%
		Iron Road #290	Km 0.0 to 0.80	0.80 km	Gravelling	100%
		Thorley Road #179	Km 3.2 to 3.52	0.32 km	Reconstruction	100%
		Michel Road #80	Km 0.0 to 1.60	1.60 km	Reconstruction	100%
		Cariboo Highway #97	Bell Rest Area	0.50 km	Fencing	100%
		Cariboo Highway #97	Hixon Drainage	1.50 km	Ditching	100%
Dawson Creek	C-2286D	Road #267	Km 16.6 to 18.2	1.6 km	Reconstruction (realignment), regravel and ditching	100%
	C-2286D	Road #267	Km 16.6 to 18.2	3.2 km	Fencing both sides	100%
	C-2286D	Road #269	Km 11.6 to 12.8	1.2 km	Reconstruction (realignment), regravel and ditching	100%
	C-2286D	Road #269	Km 11.6 to 12.8	2.4 km	Fencing both sides	100%

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	C-0142D	Road #208B	Km 53.76 to 54.76	1.0 km	Regravel		100%
	C-0142D	Road #208	Km 55.62 to 56.62	1.0 km	Regravel		100%
	C-0142D	Road #263	Km 22.4 to 23.0	0.6 km	Gravel		100%
	C-0142D	Road #261	Km 16.0 to 20.8	4.8 km	Gravel		100%
	C-0142D	Road #259	Km 16.0 to 18.2	2.2 km	Regravel		100%
	C-0142D	Road #212	Km 50.46 to 52.06	1.6 km	Regravel		100%
	C-0142D	Road #212	Km 43.12 to 44.72	1.6 km	Regravel		100%
	C-2286D	Braden Road #257	Km 25.6 to 27.2	1.6 km	Reconstruction, regravel & ditching		100%
	C-2286D	Braden Road #257A	Km 0.0 to 3.2	3.2 km	Reconstruction, regravel & ditching		100%
	C-2286D	Road #216	Km 47.53 to 52.33	4.8 km	Reconstruction, regravel & ditching		100%
	C-0142D	Puggins Mtn. Road #202	Km 34.56 to 35.76	1.2 km	Regravel		100%
	C-0142D	Fullerton Road #202A	Km 26.56 to 28.56	2.0 km	Regravel		100%
	C-0142D	Upper Cutbank Road #13	Km 24.16 to 25.16	1.0 km	Regravel		100%
	W-0358	Hart Highway #97	Km 37.42 to 43.82	6.4 km	Fencing		100%
	C-2286C	Road #201	Km 41.6 to 44.0	2.4 km	Brush and rebuild grade		100%
	C-2286C	Road #211	Km 35.4 to 37.8	2.4 km	Rebuild grade and regravel		100%
	C-2286C	Road #226	Km 10.0 to 11.6	1.6 km	Brush and rebuild grade		100%
	C-2286C	North Rolla Road $8	Km 9.1 to 13.9	4.8 km	Gravel and pulvi-mix		100%

J-4320	Rolla Road #3	Km 8.2 to 16.2	8.0 km	Sealcoating	100%
C-2286C	Road #226	Km 0.4 to 2.0	1.6 km	Ditching	100%
C-2286C	Road #222	Km 12.07 to 13.67	1.6 km	Ditching and rebuild grade	100%
C-0142C	Landry Road #5	Km 7.84 to 11.04	3.2 km	Ditching (slide area)	100%
C-0142C	Henderson Pit Road #232	Km 4.3 to 6.7	2.4 km	Ditching (slide area)	100%
C-2286C	Road #211	Km 35.4 to 36.2	0.8 km	Fencing	100%
C-0142C	Road #207	Km 28.8 to 32.0	3.2 km	Regravel	100%
C-0142C	Road #232	Km 1.92 to 5.12	3.2 km	Regravel	100%
C-0142C	North Rolla Road #8	Km 20.48 to 23.62	3.2 km	Regravel	100%
C-0142C	Road #224	Km 18.24 to 21.44	3.2 km	Gravel	100%
C-0142C	Road #224	Km 5.88 to 1.0	4.8 km	Regravel	100%
C-0142C	Road #224A	Km 5.42 to 7.02	1.6 km	Regravel	100%
C-0142C	Torio Road #227	Km 11.4 to 13.0	1.6 km	Regravel	100%
C-0142A	Adams Road #206A	Km 17.14 to 22.11	5.0 km	Regravel	100%
C-0142A	Adams Road #227	Km 8.2 to 11.4	3.2 km	Regravel	100%
C-2286A	Karpinski Road #194	Km 5.0 to 6.6	1.6 km	Gravel	100%
C-2286A	Krauskopf Road #209S	Km 7.8 to 8.2	0.4 km	Regravel	100%
C-0142A	Kreuzinger Road #196A	Km 4.39 to 5.28	0.8 km	Regravel	100%
C-2286A	Gundy Road #20	Km 0.0 to 3.2	3.2 km	Regravel	100%
C-0142A	Wallis Road #211	Km 1.6 to 6.6	5.0 km	Regravel	100%
C-0142A	Gundy Road #20	Km 16.5 to 17.3	0.8 km	Regravel	100%

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	C-0142A	Road #201A South	Km 3.2 to 3.6	0.4 km	Regravel		100%
	C-2286A	Briar Ridge Road #4	Km 12.85 to 13.65	0.8 km	Regravel		100%
	C-2286A	Road #203	Km 16.0 to 16.8	0.8 km	Regravel		100%
	C-2286A	Briar Ridge Road #4	Km 8.23 to 9.0	0.8 km	Regravel		100%
	C-2286A	Briar Ridge Road #4	Km 2.18 to 5.38	3.2 km	Regravel		100%
	C-0142A	Road #201	Km 6.4 to 7.2	0.8 km	Regravel		100%
	C-0142A	Dewetter Road #206	Km 7.36 to 8.96	1.6 km	Regravel		100%
	C-2286A	McQueens Road #15	Km 11.84 to 13.44	1.6 km	Regravel		100%
	C-2286A	North Rolla Road #8	Km 0.8 to 4.0	3.2 km	Regravel		100%
	C-0142A	Correction Line Road #212	Km 11.4 to 13.0	1.6 km	Regravel		100%
	C-2286A	Road #206	Km 31.86 to 32.6	0.8 km	Gravel		100%
	C-0142A	Ski Hill Road #219	Km 10.4 to 11.2	0.8 km	Regravel		100%
	C-2286A	Berry Road #213A	Km 4.16 to 7.36	3.2 km	New construction and gravel		100%
	C-0142A	Road #198	Km 13.28 to 14.88	1.6 km	Regravel		100%
	C-2286A	Road #217	Km 6.4 to 7.2	0.8 km	Gravel		100%
	C-0142A	Tate Creek Road #17	Km 0.0 to 0.8	0.8 km	Regravel		100%
	CV-0142A	Pouce Coupe-Alta Bdy. Hwy #1	Km 18.25 to 19.05	0.8 km	Regravel		100%
	C-0142A	Pouce Coupe-Alta Bdy. Hwy #1	Km 25.0 to 26.6	1.6 km	Regravel		100%

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C-0142A	Road #202	Km 8.96 to 10.56	1.6 km	Regravel	100%
C-0142A	Briar Ridge Road #4	Km 1.38 to 2.18	0.8 km	Regravel	100%
W-0358	Hwy. #97N Alaska Highway	Km 20.5 to 22.1	1.6 km	Fencing	100%
C-0142B	Ralph Road #243	Km 16.0 to 17.6	1.6 km	Regravel	100%
C-0142B	Kennedy Road #245	Km 17.6 to 19.2	1.6 km	Regravel	100%
C-0142B	Haight Road #247	Km 19.2 to 22.4	3.2 km	Regravel (3/4" crush)	100%
C-2286B	Kilkerran Road #214	Km 19.84	0.2 km	Intersection with Road #225 paved	100%
C-2286B	Leihman Road #233	Km 190.2		Install 4' culvert & pull upgrade	100%
C-2286B	Alaska Highway #97	Km 1.6 to 3.2	1.6 km	Ditching	100%
C-2286B	Hog, Road #241	Km 16 to 16.8	0.8 km	Gravelled	100%
C-0142B	Redenbach Road #239	Km 13.9 to 15.5	1.6 km	Regravel	100%
C-0142B	Reasbeck Road #210	Km 23.47 to 25.07	1.6 km	Regravel	100%
C-0142B	Kenzie Subdivision Road #332	Km 0.0 to 1.5	1.5 km	Regravel (2" crush)	100%
C-0142B	Widmark Subdivision Road #318	Km 0.0 to 0.5	0.5 km	Regravel	100%
C-0142B	Leaches Road #235	Km 15.6 to 16.0	0.4 km	Regravel	100%
C-0142B	Reasbeck Road #210	Km 27.9 to 28.3	0.4 km	Regravel	100%
C-0142B	Tower Lake Road #14	Km 2.25 to 4.65	2.4 km	Regravel	100%
C-0142B	Coal Creek Road #220	Km 31.06 to 32.66	1.6 km	Regravel	100%
C-2286B	Coal Creek Road #220	Km 31.06 to 31.86	0.8 km	Ditch	100%
C-2286B	Coal Creek Road #220	Km 32.66 to 33.46	0.8 km	Ditch	100%

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	C-2286B	Gagne Road #230	Km 40.32 to 43.52	3.2 km	Reconstruct and regravel		100%
	C-0142B	Mile 8 Road #214	Km 22.98 to 26.24	3.2 km	Regravel		100%
	C-0142B	Mile 8 Road #214	Km 26.24 to 27.4	1.2 km	Regravel		100%
	C-0142B	Mile 8 Road #214	Km 30.24 to 34.24	4.0 km	Regravel		100%
	C-0142B	Sunrise Valley Road #216	Km 31.13 to 38.33	7.2 km	Regravel		100%
	C-0142B	Parkland Road #7	Km 23.52 to 28.32	4.8 km	Regravel		100%
	C-0142B	Parkland Road #7	Km 28.32 to 34.0	5.6 km	Regravel		100%
	C-0142B	Mason Road #237	Km 25.0 to 25.8	0.8 km	Regravel		100%
	C-2286B	Matthews Park Road #237	Km 28.3 to 29.9	1.6 km	Gravel		100%
	C-0142B	Parkland Road #7	Km 16.32 to 17.12	0.8 km	Regravel		100%
	C-2286B	North Rolla Road #8	Km 4.0		Gabions installed; ditching		100%
	C-2286B	Road #212	Km 18.8 to 19.6	0.8 km	Ditching		100%
	C-2286B	Alaska Highway #97	Km 22.4 to 24.0	1.6 km	Ditching		100%
	C-2286B	Popp Road #239	Km 20.8 to 21.6	0.8 km	Reconstruct and gravel		100%
	C-2286B	Road #227	Km 16.0 to 16.4	0.4 km	Construct and gravel		100%
	C-2286B	Road #241	Km 16.0 to 19.2	3.2 km	Contstruct and gravel		100%
	C-2286B	Road #228	Km 38.1 to 38.9	0.8 km	Reconstruct and gravel		100%
	C-2286B	Road #220	Km 32.95 to 35.35	2.4 km	Reconstruct and gravel		100%

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	C-0142B	Tower Lake Road #14	Km 11.0 to 12.6	1.6 km	Regravel	100%
	C-0142B	Boy Scout Road #39	Km 0.0 to 1.6	1.6 km	Regravel	100%
	C-2286B	Road #249	Km 14.2 to 15.0	0.8 km	Gravel	100%
	C-2286B	Triangle Road #25	Km 2.4 to 2.8	0.4 km	Reconstruct and regravel	100%
	C-0142B	Hillcrest Road #233	Km 26.3 to 27.1	0.8 km	Regravel	100%
	C-0142E	Road #27	Km 9.0 to 15.0	6.0 km	Clearing, construction & gravelling	100%
	C-2286E C-0142E	Road #12	Km 9.0 to 11.0	2.0 km	1 km of clearing and 2 km of construction and gravelling	100%
	C-2286E	Road #68	Km 18.5 to 21.5	3.0 km	Clearing, construction & gravelling	100%
	C-0435	Jackfish Lake Road	Km 9.6 to 16.0	6.4 km	Clearing, construction & gravelling	
	C-4235					100%
Fort St. John	C-4191	Miscellaneous District Roads	Various throughout District	457.0 km	Reconstruction and New Construction. Regravelled existing roads and gravelling newly constructed roads	100%
	C-0165	Road No. 103	km 9.0 to km 12.0	3.0 km	Prepare for paving; drainage improvements. Reconstruction.	100%
	C-0165	Road No. 148	Highway #97 to Jct Road 240	3.2 km	Prepare for paving; drainage improvements. Reconstruction.	100%
	C-0165	Road No. 259	Highway #97 to Jct Road 103	3.2 km	Prepare for paving; drainage improvements. Reconstruction.	100%
	C-0166	Road 113	Road 255 to Road 259	3.2 km	Reconstruction - clear R/W: prepare for reconstruction	10%
	C-0166	Road No. 193	Km 2.3 to Km 2.8	0.5 km	Reconstruction - realign; reconstruct bridge approaches.	100%

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	C-0166	Road No. 271	Road 246 to Road 248	3.2 km	Reconstruction - upgrading		100%
	C-0167	Road No. 192	Km 14.9 to Km 15.0	0.1 km	Reconstruction - install Arch Pipe (Elbow Creek)		100%
	C-4484	Liard Highway	Km 74.0 to Km 137	63.0 km	New Construction		80%
	C-0165	Road No. 259	Km 0.5 to Km 0.8 (North of Hwy #97)	0.3 km	Reconstruction - realign and reconstruction; install M.P.P. (Fish Creek)		100%
	C-0166	Road No. 188	Km 0.0 to Km 11.3	11.3 km	Reconstruction - upgrading		100%
	C-0166	Road No. 116	Km 5.1 to Km 11.1	6.0 km	Reconstruction - upgrading		100%
	C-0166	Road No. 151	Km 50.0 to Km 55.0	5.0 km	Reconstruction - Road base repairs and strengthening; drainage improvements.		100%
	C-0167	Road No. 145	Km 1.3 to Km 2.3	1.0 km	Reconstruction - fill slopes		100%
	C-0449	682R Hwy. No. 97	96th St. to 100th St., Fort St. John	0.5 km	Reconstruction - widening, prepare for paving and paving		100%
	C-0449 and C-0563	682R Hwy. No. 97	89th St. to 96th St., Fort St. John	1.0 km	Reconstruction - deepening of drainage outfall ditch and installation of 2400 mm culverts at 89th and 93rd Street accesses.		100%
	C-0450	Road No. 507 (Radar Hill Road)	Km 0.0 to Km 3.2	3.2 km	Reconstruction - upgrading and realignment.		100%
	C-0450	Road No. 510 (Clarke Lake Road)	Km 6.0 to Km 9.0 (Miscellaneous locations)	0.5 km	Reconstruction - Right of Way clearing; sight distance improvements, upgrading.		50%

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	C-0450	Road No. 513 (Jackfish Lake Road)	Km 1.0 to Km 4.4	3.4 km	Reconstruction - realignment and upgrading		100%
	J-1317	Road No. 115 (Farrell Creek Road)	Km 0.0 to Km 42.0	42.0	New construction, completion of 1980 project.		100%
Vanderhoof	C-3039	Tachie Road	Various locations	13.77 km	Ditch and gravel	June/80	100%
	C-4496	Kenny Dam Road and Stoney Creek Road	Km 7.55 - Km 13.83 Km 0.00 - Km 1.85	8.13 km	Reconstruct, widen and gravel	May/80	80%
	C-3332	Stella Road	Km 8.50 - Km 6.17 (east end)	2.33 km	Gravel	July/80	100%
	C-4497	Germansen Landing Road	Km 25.95 - Km 27.00	1.05 km	Gravel	July/80	90%
	C-0169	Highway 16 and Highway 27	Repair 13 frost boils		Excavate and backfill with gravel	Apr/80	100%
	C-0453	Burrard Avenue	at intersections	2 ramps	Construct wheel chair ramps in curbing	Oct/80	100%
	C-0455	Miscellaneous Farm Roads:					
		Layton Road	Km 4.02 - Km 5.55	1.53 km	Reconstruct, widen and gravel	Aug/80	100%
		Bearhead Road	Km 1.55 - Km 1.95 and	0.97 km	Reconstruct, cut down hill, flatten curve and gravel	Sept/80	100%
	C-0553	New Nechako Bridge (Approaches)	Km 0.00 - Km 7.50	7.50 km	New construction.	Aug/80	20%
	N-0433	Highway 27 and Francois Lake Rd.	Stuart River Bridge and Stellake Bridge No. 1	0.52 km	Install Type "A" concrete guardrail	Sept/80	100%
	W-0360	Fencing - Schedue 2 Highway	Various locations	6.0 km	Construct barb wire fences	Apr/80	100%
	C-0591	Lakeshore Drive	Km 0.00 - Km 1.60	1.60 km	Gravel and pave	Aug/80	20%
McBride	C-0171	Loseth Road #573	Km 4.55 to Yellowhead South Hwy. #5	0.55 km	Re-located and constructed due to C.N.R. development	June/80	100%

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	C-0171	Blackman Road #575	Km 4.30 - Km 4.80	0.50 km	Re-located and constructed due to C.N.R. development	June/80	100%
	C-0171	Blackman Road #575	Km 10.4 - Km 12.0	1.6 km	Re-located and constructed due to C.N.R. development	Apr/80	100%
	C-4239	Channel Road #533	Km 0.0 to Km 0.64	0.64 km	Widen and Grade revision	Sept/80	100%
	C-4239	Lamming Pit Road #579	Km 1.98 - Km 2.08	0.10 km	Extend by constructing	Nov/80	100%
	C-4237	Eddie Road #552	Km 7.50 - Km 8.30	0.80 km	Re-located and constructed	Sept/80	75%
	W-0361	Fencing Schedule 2	Various Locations Hwy. #5 & #16	2.30 km	Constructed	July/80	100%
	W-0361	Fencing Schedule 2	Various Locations Hwy.#16	1.7 km	repair	Sept/80	100%
	C-3678	Whiskey Fill Road #571	Km 0.00 - 2.10 Km	2.10 km	Paved	Oct/80	100%
	C-0524	Patching Hwy. #16 Tete Jaune	Various Locations		Machine Patch	Oct/80	95%
	C-0525	Hwy. #16 McBridge	Various Locations		Machine Patch	July/80	98%
		Chilcotin - Bella Coola #20	Alexis Lk Rd to Bayliff Ranch	21.0 km	Reconstruction, new diversion	Sept/79	100%
		Tatlayoko #405	Km 26.0 to Km 35.0	9.0 km	Reconstruction, widen realign	Aug/79	100%
		Redstone - Chezacut #392	Km 11.7 to Km 20.0	8.3 km	Reconstruction, widen realign	Aug/80	100%
		Big Creek #299	Km 11.7 to Km 20.0	4.0 km	Reconstruction, widen	June/80	100%
		Mons Lake #1125	Rodeo Ground to Mons Lake	2.4 km	Reconstruction, widen realign	May/80	100%
		Stum Lake #1007	Km 0.5 to Km 7.7	7.2 km	Reconstruction, widen realign	Sept/80	100%
		Alexis Lake #411	Km 0.0 to Km 9.0	9.0 km	Reconstruction, widen	Sept/80	100%

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		Alexis Creek - Chilco Rand #614	Km 14.4 to Km 23.4	9.0 km	Reconstruction, major gravel	May/80	100%
		Hatchery #548	Approaches to Upper Horsefly River Bridge	0.7 km	Reconstruction, widen realign	July/80	100%
		Dean River Road #1121	Km 10.6 to Km 16.1	5.5 km	Reconstruction, widen realign	Aug/80	100%
		Likely #115	Km 56.0 to Km 60.0	4.0 km	Reconstruction, widen realign	July/80	100%
		Likely #115	Top of Likely Hill	1.0 km	Reconstruction, widen realign	July/80	100%
		Likely #115	Km 12 to Km 25	13.0 km	Major Gravelling, paving preparation	May/80	100%
		Horsefly #419	Km 24.7 to Km 26.7	2.0 km	Reconstruction, realignment	Aug/80	100%
		Chimney Lake #610	Km 0.5 to Km 4.0	3.5 km	Reconstruction, widen realign	Aug/80	100%
		Jessica Lake #674	Km 0.5 to Km 3.8	3.3 km	Reconstruction, widen	Oct/80	100%
		Spokin Lake #398	Km 0 to Km 2.8	2.8 km	Reconstruction, widen realign	Aug/80	100%
		Dog Creek #137	Km 13.8 to Km 23.0	9.2 km	Major Gravelling, paving preparation	May/80	100%
		Cariboo #97	Miscellaneous Sections	3.0 km	Construction of left turn lanes	May/80	100%
		Knife Creek #349	Km 2.3 to Km 6.4	4.1 km	Reconstruction, widen realign	Oct/80	100%
Region 5 Prince Rupert	N-0390	Various locations Hwy. #37A, Hwy #16, Dist. Rd. #33, Q.C.I.	Guardrail placement 69 m		New construction	June/80	100%
	C-0174	Cassiar Highway #37 Stewart - Meziadin Rd. #37A	Surprise Creek to Nass River Major ditching-widening and vertical realignment	27 km	Reconstruction-widening grade revisions	June/80	100%
	C-0175	Stewart-Meziadin Lake Road Highway #37A	Bridge approach construction Bear River #2, Surprise Creek, Bitter Creek, Entrance Creek		Reconstruction, grade revisions realignment	June/80	100%

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	C-0493	Prince Rupert Arterial #487-R Masset Arterial #494-R	Wheelchair ramps - various locations		New construction	March/81	100%
	C-0616	Stewart-Meziadin Lake Road Highway #37A			Reconstruction - widen establish original grade	Sept/80	100%
	C-0658	Stewart Arterial #584-R	Bear River #1 - detour		Establish Bailey Bridge detour	July/80	100%
Terrace	C-0176	Old Lakelse Lake Road #53	Km 3.3 to km 12.0	8.7 km	Reconstruction, improving vertical and horizontal alignment and widening	July/80	50%
	C-0494	Douglas Road #128	Douglas Road Hill	0.4 km	Reconstruction, lowering grade, and widening	Sept/80	95%
	C-0495	Yellowhead #16 East	Ferry Island, adjacent to District of Terrace	0.4 km	Widening of fill to accommodate left-hand turn lane, move lamp standards and paving	Aug/80	100%
	K-0055 56 57 59	Yellowhead #16 East	St. Croix Bridge approaches Chimdemash Bridge approaches Legate Bridge approaches Little Oliver		Repairing flood damage from November 1978, stream channelization, rip-rapping, construction and paving of bridge approaches, removal of bailey bridges	Aug/80	80%
	C-0148	Assorted local roads	Minor betterments		Drainage improvements and base repair of local roads. Rest area improvements and shouldering	May/80	100%
Dease Lake	C-0149	Atlin Cemetary Access	South of Atlin Town, Lake St. South	3.0 km	New construction	July/80	100%

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	C-0177	Highway #37	Reids Hill to Centerville	7.0 km	Reconstruction; widening, realignment, grade revision	May/80	100%
	C-0178	Highway #37	Burrage Airstrip to Rescue Cr.	11.0 km	Reconstruction, gravelling	July/80	
			Willow Cr to Kiniskan Lake	17.0 km			100%
			Della Mine Road to Cottonwood Detour	28.2 km			
			Tanzilla Hill to Dease Lake Garbage Dump Road	20.4 km			
	C-0661	Highway #37	Sawmill Pt.	0.1 km	Fill failure replacement	July/80	100%
	C-0499	Highway #2, Atlin	30 Mile Hill	2.0 km	Reconstruction and realignment, grade revision and widening	Aug/80	100%
	C-0178A	Highway #37	Tanzilla R to Gnat Summit	18.0 km	Ditch reconstruction		
			Glacier Cr. to Hodder Lake	17.0 km		July/80	100%
Smithers	0179	#49 Kispiox Valley Road	Km 0.00 to 12.00 km	12.0 km	Reconstruction, some widening and realignment with grade revisions, gravelling	June/80	100%
	0180	Kitwancool Access	Km 0.00 to 1.6 km	1.6 km	Construction with gravelling	May/80	100%
Burns Lake	C-0182	#59 Keefes Landing Road and +25 Eakin Settlement Road	Southbank to Barkers Meadow	25.0 km	Reconstruction, widening, ditching & regravelling, paving preparation		
			Junction to Takysie Lake	4.0 km		May/80	100%
	C-0276	#336 Moose Crossing Pit Road	Keefes Landing Road to pit	9.0 km	New construction, ditching and gravelling	May/80	100%
	C-0151D	#34 Francois East Road	Junction to Jeffrey Road	1.7 km	Reconstruction, ditching, realignment and gravelling	July/80	100%
	C-0151R	#152 Sunset Lake Road	Strimbold Bridge Approaches	300 m	Reconstruction, bridge approaches	June/80	100%
C-4343	#486R, Houston Arterial		Tweedie Avenue & Buck Flats Rd.	300 m	Construction of turnslots	Aug/80	100%

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	C-0151	Miscellaneous Roads	Areas A, B and C	N/A	Miscellaneous gravelling	May/80	100%
Region 6 Nanaimo	C-0185	Nanaimo Lakes Road	Reconstruct	1.50	Widen and reconstruct	May/80	100%
	C-0186	Cowichan Bay Road	Reconstruct and pave	3.00 km	Reconstruct and pave	Apr/80	100%
	C-0187	Old Cowichan Road	Recap various sections	1.00 km	Recap pave	July/80	100%
	C-0188	North Road	Reconstruct and pave	0.80 km	Reconstruct and pave	Aug/80	100%
	C-0189	Sallachie Road	Reconstruct	0.70 km	Reconstruct	Sept/80	100%
	C-0190	Chemainus Road	Reconstruct and pave	0.60 km	Reconstruct and pave	Aug/80	100%
	C-0159	Island Hwy. Rutherford Rd.	Reconstruct and pave	0.50 km	Reconstruct and pave	Aug/80	100%
	C-0186	Cowichan Bay Road	Reconstruct and pave	6.00 km	Reconstruct and pave	June/80	100%
	C-0187	South Shore Road	Widen and shoulder	2.00 km	Widen and shoulder	Aug/80	100%
	C-0538	Renfrew Road	Reconstruct and road mix	2.00 km	Reconstruct and road mix	July/80	100%
	C-0190	Chemainus Road	Widen, ditch and shoulder	1.00 km	Widen, ditch and shoulder	June/80	100%
	C-0539	Thain Road	Reconstruct and road mix	1.50 km	Reconstruct and road mix	July/80	100%
	C-0540	Cowichan Valley Highway	Shoulder	16.00 km	Shoulder	May/80	100%
Saanich	C-0192	Helmcken Road	Trans Canada Hwy to Hospital	0.5 km	Reconstruct and pave	July/80	90%
	C-0193	Fernwood Road	North End Rd to Walker Hood Rd	0.7 km	Repave	Aug/80	100%

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	C-0591	West Coast Road	At 21.0 km		Construct retaining wall	Sept/80	100%
	C-0597	View Royal Misc. Roads	Misc. roads in View Royal	3.7 km	Repaving	July/80	70%
	C-0582	Fulford Ganges - Beaver Point	Fulford Ganges - Beaver Pt. Intersection	0.3 km	Reconstruct and pave	Jan/81	50%
	C-0583	Richview Road	Sooke Road to North End	0.2 km	Paving	June/80	100%
	C-0584	Morningside Road	At Fulford Harbour	0.1 km	Land slip and flood repair	Jan/81	100%
Port Alberni	0194	Bamfield Road	Port Alberni	4.0 km	Reconstruction, widen, ditch, etc.	Oct/80	30%
	0550	Island Hwy. (Shaw Hill)	Near Bowser	1.5 km	Realign, reconstruct, pave	Aug/80	100%
	0542	Beaver Creek Road	Port Alberni	1.4 km	Widen, improve, ditch, repave	Aug/80	25%
	0667	Alberni - Tofino Highway	8.0 km west of Canoe Creek	1.4 km	Construct double passing lane	Jan/81	90%
	0154A	Smith, Markham Road	Port Alberni	0.2 km	Drainage improvement, overlay	Sept/80	100%
	0154E	Stirling Arm Drive	Port Alberni (Sproat Lake)	0.3 km	Overlay	June/80	50%
	0154C	Somers Road	Port Alberni-end of Beaver Creek Road	0.1 km	Drainage improvement, hot mix patch	July/80	40%
	0154H	Tofino-Ucluelet Highway	Near Village of Tofino	1.0 km	Ditching, shoulder widening	Aug/80	80%
	0154.1	Lantzville, Superior Rd. S/D	Lantzville	0.5 km	Drainage improvement, repave	June/80	50%
	0154N	Station Road	Coombs	0.6 km	Drainage, road improvement, etc.	June/80	50%
	0154K	Claudet Road	Nanoose Area	1.5 km	Asphalt overlay	June/80	80%
	0543	Tofino Arterial Highway	Village of Tofino	1.1 km	Shoulder paving and widen	Sept/80	100%
		Alberni - Parksville Highway	Cameron Lake River	1.5 km	Shoulder stabilization, flood prot.	Jan/81	100%
		Burde Road	Port Alberni, south	0.5 km	Drainage, asphalt, overlay	May/80	90%

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C-0197	Island Highway, Fraser, Argyle, Kilmarnock, Clark, Grieve, Langlois, and Nurmie	Comox Valley Road	9.0 km	Pave gravel roads with hotmix asphalt	May/80	100%
C-0198	Swan	Reconstruct (Denman Is. Road)	0.8 km	Widen and reditch in preparation for paving	July/80	100%
C-0199	Miscellaneous Roads	Pave short st. (Malcolm Isl.)	3.0 km	Pave short gravel streets with premix asphalt	Aug/80	100%
C-0200	Anderson Drive	Hornby Island Road	3.0 km	Pave existing gravel road with premix asphalt	July/80	100%
C-0546	Beasley and Gorge Harbour	Cortes Island Roads	3.0 km	Pave existing gravel with road mixed asphalt	July/80	100%
C-0548	Roy Creek	Royston Area	40 m	Replace timber retaining walls with reinforced concrete	Sept/80	100%
C-0549	Western Mine	Campbell River Foreman Area	30 m	Replace log crib retaining wall (material purchased)		
C-0602	Dogwood	Campbell River	0.4 km	Reconstruct existing and pave with hotmix	Sept/80	100%
C-0622	Campbell Way	Port McNeill Arterial 507R	0.8 km	Widen shoulder extra lane width and reditch	Oct/80	100%
C-0671	Forbidden Plateau	Courtenay Foreman Area	0.2 km	Widen road allowance for ski hill parking lot	Oct/80	100%

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	D0011	Alberni-Tofino Highway	Taylor River Rest Area		Place topsoil	Sept/80	10%
	0195	Bayliss, Corcan, Oakdowns etc., roads	Dashwood Area	5.0 km	Widen, improve, pave	May/80	100%
Courtenay	C-0155A	Miscellaenous Side Roads	Courtenay North Foreman Area	9.5 km	Grid rolling, ditching, gravelling	Apr/80	100%
	C-0155B	Frontage Roads	Campbell River Foreman Area	2.0 km	Reconstruction, gravelling, paving	July/80	100%
	C-0155C	Gold River	Gold River Foreman Area		Construct mist wall	Apr/80	100%
	C-0155D	Coal Harbour, Quatsino, Winter Harbour	Port Hardy Foreman Area	3.0 km	Gravelling, paving, rock work	June/80	100%
	C-0155F	Sayward Sideroads	Sayward Foreman Area	1.0 km	Reconstruction, gravelling, paving	July/80	100%
	C-0155G	Quadra Roads	Quadra Foreman Area	5.0 km	Sealcoat island roads	Apr/80	100%
	C-0155J	Denman Roads	Denman Foreman Area	1.0 km	Cleanup roadside debris, ditching	May/80	100%
	C-0155K	St. Johns Point	Hornby Foreman Area	1.0 km	Reconstruction, ditching, gravelling	May/80	100%
	C-0155R	Read Island	Campbell River Foreman Area	3.0 km	Improve drainage, gravelling	May/80	100%
	C-0155S	Miscellaneous Side Roads	Courtenay South Foreman Area	3.0 km	Reconstruction, ditching, and gravelling	May/80	100%
	C-0196	Highway #19	Black Creek Bridge - Ocean Grove Road	17.51 km	Shoulder widening, ditch construction, minor alignment and profile improvement, (preparation for paving contract)	Apr/80	100%

HIGHWAYS STATISTICS

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS AND CLASSIFIED HIGHWAYS
By Class
(Classified in Bold Type)

METRIC MEASURES

Region & Highway District	Provincial and Classified	Ministry of Transportation & Highways							Ministry of E and Natural
		Trunk Highways	Main Highways	Other Roads		Total Dist. Open	Distance Not Open	Trails	
				Collector	Minor				Roads
REGION 1									
11. North Vancouver	Provincial	8.22	75.10	99.94	136.11	319.37	14.23	.....	.....
	Classified	**51.39**	**70.90**	**8.44**	**5.35**	**136.08**	.....	.....	.....
13. Gibsons	Provincial	.....	121.48	152.23	282.59	556.30	168.21	27.73	.....
	Classified	.....	**18.95**	**.24**	**6.40**	**25.59**	.....	.....	.....
14. New Westminster	Provincial	.88	3.44	23.65	45.36	73.33	3.46	.....	.....
	Classified	**398.56**	**60.55**	**65.81**	**8.00**	**532.92**	.....	.....	.....
15. Chilliwack ...	Provincial	81.09	4.83	149.07	228.23	463.22	37.62	.....	.....
	Classified	**120.83**	**65.63**	**66.08**	**1.53**	**254.07**	.....	.....	.....
16. Hope	Provincial	195.61	.....	.....	183.54	379.15	8.38	74.82	20.11
	Classified	**4.34**	.....	**.72**	.....	**5.06**	.....	.....	.....
Regional Totals .	Provincial	285.80	204.85	424.89	875.83	1791.37	231.90	102.55	20.11
	Classified	**575.12**	**216.03**	**141.29**	**21.28**	**953.72**	.....	.....	.....
REGION 2									
21. Kamloops	Provincial	313.50	138.00	390.20	1051.10	1892.80	82.50	204.40	.....
	Classified	**12.10**	.....	.....	.....	**12.10**	.....	.....	.....
22. Salmon Arm ...	Provincial	194.15	.....	440.75	561.53	1196.43	130.58	.....	22.54
	Classified	**23.39**	**5.64**	**21.88**	.....	**50.91**	.....	.....	.....
23. Vernon	Provincial	135.25	8.85	421.89	450.89	1016.88	74.09	33.60	57.92
	Classified	**52.55**	.....	**24.48**	.....	**77.03**	.....	.....	.....
24. Penticton	Provincial	297.45	.....	393.27	687.29	1378.01	55.63	111.98	29.36
	Classified	**36.16**	.....	**18.20**	.....	**54.36**	.....	.....	.....
25. Merritt	Provincial	160.57	90.08	956.45	2.13	1209.23	18.39	.....	12.39
	Classified	**5.59**	**7.49**	.....	.....	**13.08**	.....	.....	.....
26. Lillooet	Provincial	75.80	175.10	309.64	324.85	885.39	2.50	.....	.....
	Classified	**6.60**	**4.60**	**5.70**	.....	**16.90**	.....	.....	.....
27. 100 Mile House	Provincial	140.87	63.43	562.28	1157.61	1924.19	152.07	153.92	9.60
	Classified	**4.43**	.....	.....	**1.39**	**5.82**	.....	.....	.....
29. Kelowna	Provincial	101.64	39.31	132.80	723.67	997.42	243.95	.....	.....
	Classified	**28.19**	.....	**12.25**	.....	**40.44**	.....	.....	.....
Regional Totals .	Provincial	1419.23	514.77	3607.28	4959.07	10,500.35	759.71	503.90	131.81
	Classified	**169.01**	**17.73**	**82.51**	**1.39**	**270.64**	.....	.....	.....
REGION 3									
31. Nelson	Provincial	166.40	43.10	135.40	362.42	707.32	28.04	.....	145.16
	Classified	**9.38**	.....	**.58**	.....	**9.96**	.....	.....	.....
32. Rossland	Provincial	155.62	15.83	58.02	277.45	506.92	87.10	.....	5.55
	Classified	**34.40**	**3.91**	**1.29**	.....	**39.60**	**2.02**	.....	.....
33. Grand Forks ..	Provincial	133.73	96.01	167.02	602.09	998.85	47.25	.....	19.55
	Classified	**15.39**	.....	**1.98**	.....	**17.37**	.....	.....	.....
34. New Denver ...	Provincial	162.60	155.20	73.30	303.70	694.80	58.14	.....	439.12
	Classified	**4.30**	**7.10**	.....	.....	**11.40**	.....	.....	.....
35. Cranbrook	Provincial	218.00	.....	211.30	561.10	990.40	59.90	.....	19.30
	Classified	**15.60**	.....	**4.00**	.....	**19.60**	.....	.....	.....
36. Fernie	Provincial	116.67	26.78	86.20	408.12	637.77	360.34	.....	.....
	Classified	**30.51**	.....	**10.32**	**1.13**	**41.96**	.....	.....	.....
37. Golden	Provincial	260.90	.....	9.50	539.70	810.10	95.30	.....	274.10
	Classified	**8.80**	.....	**2.70**	.....	**11.50**	**2.50**	.....	.....
38. Revelstoke ...	Provincial	78.70	112.15	22.40	283.03	496.28	33.50	.80	15.93
	Classified	**1.61**	.....	**6.52**	.....	**8.13**	.....	.....	.....
39. Creston	Provincial	184.75	13.52	246.93	93.40	538.60	23.61	.....	.....
	Classified	**5.36**	.....	**2.03**	.....	**7.39**	.....	.....	.....
Regional Totals .	Provincial	1477.37	462.59	1010.07	3431.01	6381.04	793.18	.80	918.71
	Classified	**125.35**	**11.01**	**29.42**	**1.13**	**166.91**	**4.52**	.....	.....

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS
AND CLASSIFIED HIGHWAYS
By Class
(Classified in Bold Type)

METRIC MEASURES

ion & hway trict	Provincial and Classified	Ministry of Transportation & Highways							Ministry of Energy, Mines and Natural Resources	
		Trunk Highways	Main Highways	Other Roads		Total Dist. Open	Distance Not Open	Trails		
				Collector	Minor				Roads	Trails
REGI 4										
Prin eorge	Provincial	418.98	45.58	154.35	765.16	1384.07	273.91	.....	.....	.....
	Classified	**15.40**	**20.44**	.....	.....	**35.84**	.....	.....	.....	.....
Quesn	Provincial	173.41	85.28	550.63	1283.61	2092.93	74.52	93.86	288.11	535.90
	Classified	**7.72**	.....	**7.28**	.....	**15.00**	.....	.....	.....	.....
Daws reek .	Provincial	341.16	51.20	1705.70	306.56	2404.62	2017.07	.....	.....	.....
	Classified	**31.35**	.....	**3.15**	.....	**34.50**	.....	.....	.....	.....
Fort . John	Provincial	69.60	124.22	1514.60	663.11	2371.53	1281.10	.....	.....	.....
	Classified	**7.70**	**22.63**	**33.88**	**12.66**	**76.87**	.....	.....	.....	.....
Vande of ...	Provincial	116.48	60.09	483.01	665.64	1325.22	350.97	297.85	522.92	233.45
	Classified	**26.53**	**5.49**	**2.89**	.....	**34.91**	.....	.....	.....	.....
Mo ri	Provincial	356.17	.....	.....	319.41	675.58	72.78	22.53	.....	.....
	Classified	**1.19**	.....	**2.32**	.....	**3.51**	.....	.....	.....	.....
Mills Lake	Provincial	65.87	466.88	6.39	2459.72	2998.86	99.30	596.89	90.67	268.59
	Classified	**2.22**	**1.88**	**3.98**	.....	**8.08**	.....	.....	.....	.....
gions otals .	Provincial	1541.67	833.25	4414.68	6463.21	13252.81	4169.65	1011.13	201.70	1037.94
	Classified	**92.11**	**50.44**	**53.50**	**12.66**	**208.71**	.....	.....	.....	.....
REGI 5										
Prin upert	Provincial	42.81	277.46	.....	150.20	470.47	115.10	54.48	53.27	.....
	Classified	**42.05**	**44.09**	**2.30**	.....	**88.44**	.....	.....	.....	.....
Terra	Provincial	136.54	51.11	100.06	158.21	445.92	131.05	133.31	.....	57.49
	Classified	**5.95**	**6.60**	**6.30**	.....	**18.85**	.....	.....	.....	.....
Deaseike ...	Provincial	.....	566.21	44.26	264.67	875.14	.....	1281.90	.....	.....
	Classified	.....	.....	.....	.....	.....	.....	.....	.....	.....
Smith	Provincial	257.29	.....	161.35	586.78	1005.42	130.97	611.42	28.48	435.23
	Classified	**13.73**	.....	**.60**	**7.30**	**21.63**	.....	.....	.....	.....
Burnsike ...	Provincial	113.40	22.20	422.40	414.60	972.60	68.20	.....	.....	137.60
	Classified	**36.20**	**.70**	**3.20**	.....	**40.10**	.....	.....	.....	.....
gions otals .	Provincial	550.04	916.98	728.07	1574.46	3769.55	445.32	927.40	81.75	630.32
	Classified	**97.93**	**51.39**	**12.40**	**7.30**	**169.02**	.....	.....	.....	.....
REGI 6										
Stani	Provincial	92.15	36.00	353.65	646.40	1128.20	102.58	18.40	28.32	22.40
	Classified	**48.34**	**9.33**	**6.84**	**27.44**	**91.95**	.....	.....	.....	.....
Saani	Provincial	23.24	71.00	242.46	763.81	1100.51	125.44	.....	.....	69.26
	Classified	**37.35**	**34.98**	**34.30**	**1.11**	**107.74**	.....	.....	.....	.....
Port erni .	Provincial	174.10	43.70	35.30	633.70	886.80	410.90	29.90	7.20	.....
	Classified	**16.31**	**10.36**	.....	.....	**26.67**	.....	.....	.....	.....
Court y	Provincial	279.72	99.90	37.20	1092.52	1509.34	166.37	376.80	.....	106.10
	Classified	**23.16**	**20.49**	.....	**40.15**	**83.80**	.....	.....	.....	.....
gions otals .	Provincial	569.21	250.60	668.61	3136.43	4624.85	805.29	425.10	35.52	197.76
	Classified	**125.16**	**75.16**	**41.14**	**68.70**	**310.16**	.....	.....	.....	.....
tals	Provincial	5843.32	3183.04	10853.60	20440.01	40319.97	7205.05	2970.28	1389.60	2665.98
	Classified	**1184.68**	**421.76**	**360.26**	**112.46**	**2079.16**	**4.52**	.....	.....	.....
and T ls ...	Provincial	7028.00	3604.80	11213.86	20552.47	42399.13	7209.57	5516.06	2743.68	5134.20
	Classified									

HIGHWAYS STATISTICS

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS
AND CLASSIFIED HIGHWAYS
By Surface Type
(Classified in Bold Type)

METRIC MEASURES

Region & Highway District	Provincial and Classified	A Portland Cement Concrete	A Bituminous Plantmix	B Bituminous Road Mix & Soil Cement	C Gravelled	D Not Gravelled	Total Miles Open	Right-of Way Cleared	Right-of Way Established	Total Since Upgraded
REGION 1										
11. North Vancouver.	Provincial	2.00	106.96	62.43	144.66	3.32	319.37	6.58	7.65	23
	Classified	.....	**131.63**	.....	**4.45**	.....	**136.08**	.....	.....	..
13. Gibsons	Provincial	.....	269.42	100.65	167.98	18.25	556.30	19.68	148.53	1 21
	Classified	.....	**23.92**	**1.67**	.....	.....	**25.59**	.....	.....	..
14. New Westminster	Provincial	2.67	49.63	8.15	12.67	.21	73.33	3.12	.34	46
	Classified	**1.29**	**511.09**	**20.54**	.....	.....	**532.92**	.....	.....	..
15. Chilliwack	Provincial	.....	247.81	44.69	125.77	44.95	463.22	26.04	11.58	62
	Classified	**8.78**	**214.05**	**29.71**	**1.53**	.....	**254.07**	.....	.....	..
16. Hope	Provincial	.....	214.22	27.45	109.64	27.84	379.15	7.24	1.14	38
	Classified	.....	**5.06**	.....	.....	.....	**5.06**	.....	.....	...
Regional Totals .	Provincial	4.67	888.04	243.37	560.72	94.57	1791.37	62.66	169.24	1 90
	Classified	**10.07**	**885.75**	**51.92**	**5.98**	.....	**953.72**	.....	.....	...
REGION 2										
21. Kamloops	Provincial	.....	330.20	320.30	1016.30	226.00	1892.80	79.20	3.30	.50
	Classified	.....	**12.10**	.....	.....	.....	**12.10**	.....	.....	..
22. Salmon Arm ...	Provincial	.....	356.35	164.18	545.74	130.16	1196.43	86.23	44.35	1 58
	Classified	.....	**50.91**	.....	.....	.....	**50.91**	.....	.....	..
23. Vernon	Provincial	.....	241.44	217.27	462.44	95.73	1016.88	.....	74.09	.09
	Classified	.....	**65.20**	**11.83**	.....	.....	**77.03**	.....	.....	..
24. Penticton	Provincial	.....	353.49	401.75	440.36	182.41	1378.01	.....	55.63	.63
	Classified	.....	**49.06**	**5.30**	.....	.....	**54.36**	.....	.....	..
25. Merritt	Provincial	.....	196.93	252.76	463.72	295.82	1209.23	13.97	4.42	.39
	Classified	.....	**7.65**	**5.43**	.....	.....	**13.08**	.....	.....	..
26. Lillooet	Provincial	.....	102.20	181.80	578.59	22.80	885.39	.....	2.50	.50
	Classified	.....	**15.90**	**1.00**	.....	.....	**16.90**	.....	.....	..
27. 100 Mile House	Provincial	.....	295.47	116.63	1224.20	287.89	1924.19	116.09	35.98	.07
	Classified	.....	**5.28**	**.54**	.....	.....	**5.82**	.....	.....	..
29. Kelowna	Provincial	.....	521.33	149.34	288.64	38.11	997.42	212.49	31.46	.95
	Classified	.....	**33.92**	**6.52**	.....	.....	**40.44**	.....	.....	..
Regional Totals .	Provincial	.....	2397.41	1804.03	5019.99	1278.92	10500.35	507.98	251.73	1 71
	Classified	.....	**240.02**	**30.62**	.....	.....	**270.64**	.....	.....	...
REGION 3										
31. Nelson	Provincial	.80	250.30	121.10	263.21	71.91	707.32	1.75	26.29	.04
	Classified	**.30**	**9.66**	.....	.....	.....	**9.96**	.....	.....	..
32. Rossland	Provincial	.42	225.46	116.93	136.54	27.57	506.92	18.98	68.12	.10
	Classified	.....	**39.60**	.....	.....	.....	**39.60**	.....	**2.02**	.02
33. Grand Forks ...	Provincial	.....	157.67	307.16	330.22	203.80	998.85	19.34	27.91	.25
	Classified	.....	**17.37**	.....	.....	.....	**17.37**	.....	.....	..
34. New Denver ...	Provincial	.....	104.90	248.60	231.20	110.10	694.80	3.36	54.78	.14
	Classified	.....	**3.50**	**7.90**	.....	.....	**11.40**	.....	.....	..
35. Cranbrook	Provincial	.....	255.50	112.80	369.10	253.00	990.40	12.60	47.30	.90
	Classified	.....	**15.60**	**4.00**	.....	.....	**19.60**	.....	.....	..
36. Fernie	Provincial	.....	167.94	125.47	189.20	155.16	637.77	99.77	260.57	.34
	Classified	.....	**40.83**	.....	**1.13**	.....	**41.96**	.....	.....	..
37. Golden	Provincial	.....	311.10	135.80	329.18	34.10	810.10	74.40	20.90	.30
	Classified	.....	**11.50**	.....	.....	.....	**11.50**	.....	**2.50**	.50
38. Revelstoke ...	Provincial	.....	108.19	244.59	108.40	35.10	496.28	28.39	5.11	.50
	Classified	.....	**7.73**	**.40**	.....	.....	**8.13**	.....	.....	..
39. Creston	Provincial	1.08	222.68	110.33	156.95	47.56	538.60	.72	22.89	.61
	Classified	.....	**7.39**	.....	.....	.....	**7.39**	.....	.....	..
Regional Totals .	Provincial	2.30	1803.74	1522.78	2113.92	938.30	6381.04	259.31	533.87	.18
	Classified	**.30**	**153.18**	**12.30**	**1.13**	.....	**166.91**	.....	**4.52**	.52

STATEMENT SHOWING DISTANCES OF PROVINCIAL HIGHWAYS
AND CLASSIFIED HIGHWAYS
By Surface Type
(Classified in Bold Type)

METRIC MEASURES

Region & Highway District	Provincial and Classified	A Portland Cement Concrete	A Bituminous Plantmix	B Bituminous Road Mix & Soil Cement	C Gravelled	D Not Gravelled	Total Miles Open	Right-of Way Cleared	Right-of Way Established	Total Distance Not Open
REGION 4										
Prince George	Provincial	.....	475.17	113.07	561.70	234.13	1384.07	149.66	124.25	273.91
	Classified	.....	26.26	.....	9.58	.....	35.84	.....	.....	.....
Quesnel	Provincial	.....	495.17	16.69	1150.32	430.75	2092.93	43.92	30.60	74.52
	Classified	.34	14.66	.....	.....	.....	15.00	.....	.....	.....
Dawson Creek	Provincial	.....	418.44	32.90	1716.63	236.65	2404.62	42.87	1974.20	2017.07
	Classified	.....	34.50	.....	.....	.....	34.50	.....	.....	.....
Fort St. John	Provincial	.....	218.42	46.20	1693.51	413.40	2371.53	47.90	1233.20	1281.10
	Classified	.....	62.61	.....	14.26	.....	76.87	.....	.....	.....
Vanderhoof	Provincial	.....	241.07	8.01	953.29	122.85	1325.22	115.87	235.10	350.97
	Classified	.....	30.96	2.60	1.35	.....	34.91	.....	.....	.....
McBride	Provincial	.....	288.67	127.40	226.89	32.62	675.58	61.10	11.68	72.78
	Classified	.....	2.45	1.06	.....	.....	3.51	.....	.....	.....
Williams Lake	Provincial	.....	355.36	10.07	1412.94	1220.49	2998.86	73.29	26.01	99.30
	Classified	.....	8.08	.....	.....	.....	8.08	.....	.....	.....
Region Totals	Provincial	.....	2492.30	354.34	7715.28	2690.89	13252.81	534.61	3635.04	4169.65
	Classified	.34	179.52	3.66	25.19	.....	208.71	.....	.....	.....
REGION 5										
Prince Rupert	Provincial	.....	258.20	.....	184.27	28.00	470.47	39.54	75.56	115.10
	Classified	.....	86.18	.....	2.26	.....	84.44	.....	.....	.....
Terrace	Provincial	.....	235.53	7.29	200.25	2.85	445.92	49.79	81.26	131.05
	Classified	.....	18.85	.....	.....	.....	18.85	.....	.....	.....
Dease Lake	Provincial	.....	32.36	91.85	640.25	110.68	875.14	.....	.....	.....
	Classified	.....	.....	.....	.....	.....	.....	.....	.....	.....
Smithers	Provincial	.....	214.30	7.28	741.00	42.84	1005.42	16.43	114.54	130.97
	Classified	.....	19.50	.69	1.44	.....	21.63	.....	.....	.....
Burns Lake	Provincial	.....	229.00	....	568.10	175.50	972.60	35.10	33.10	68.20
	Classified	.....	38.60	.50	1.00	.....	40.10	.....	.....	.....
Region Totals	Provincial	.....	969.39	106.42	2333.87	359.87	3769.55	140.86	304.46	445.32
	Classified	.....	163.13	1.19	4.70	.....	169.02	.....	.....	.....
REGION 6										
Nanaimo	Provincial	.....	496.30	283.80	346.95	1.15	1128.20	4.58	98.00	102.58
	Classified	.....	91.95	.....	.....	.....	91.95	.....	.....	.....
Sannich	Provincial	.....	296.23	440.53	343.18	20.57	1100.51	12.08	113.36	125.44
	Classified	.....	85.57	22.17	.....	.....	107.74	.....	.....	.....
Port Alberni	Provincial	.....	437.90	132.30	314.70	1.90	886.80	9.30	401.60	410.90
	Classified	.....	22.99	3.68	.....	.....	26.67	.....	.....	.....
Courtenay	Provincial	.10	656.26	405.50	446.28	1.20	1509.34	11.95	154.42	166.37
	Classified	.....	68.16	14.03	1.61	.....	83.80	.....	.....	.....
Region Totals	Provincial	.10	1886.69	1262.13	1451.11	24.82	4624.85	37.91	767.38	805.29
	Classified	.....	268.67	39.88	1.61	.....	310.16	.....	.....	.....
Totals	Provincial	7.07	10437.57	5293.07	19194.89	5387.37	40319.97	1543.33	5661.72	7205.05
	Classified	10.71	1890.27	139.57	38.61	.....	2079.16	.....	4.52	4.52
Grand Totals	Provincial & Classified	17.78	12327.84	5432.64	19233.50	5387.37	42399.13	1543.33	5666.24	7209.57

REPORT OF DIRECTOR OF AIR SERVICES

P. S. PERRY

Air Ambulance, Transportation, Survey and Photography requirements of Provincial Go ernment Ministries were carried out by the Air Services Branch during the past year with a fleet four Cessna Citations, two Beechcraft A-200, an Otter and a Beaver aircraft. All equipment based at the Victoria International Airport with the exception of the Beaver which is based Kamloops.

Effective January 1, 1981, a new policy was established regarding the booking of speci flights for passengers other than Cabinet Ministers. Requests for such flights are handled by tl Travel Recording Centre and are assessed on an economic basis and the schedule compared to th of commercial carriers. This means that if there are favourable commercial connections and tl commercial tariff is more economical, the request for Air Services to operate the flight would i denied in favour of the commercial carrier. This new policy will reduce the number of speci flights operated thus providing a greater availability of aircraft and crews for use in the A Ambulance function.

A total of 6,933.4 aircraft flying hours was logged by the Branch during the past year wi 1,530.6 of these hours devoted to air ambulance flights and 3,167.2 hours for transportati flights. There were 15,000 passengers carried.

Scheduled flight service operated between Victoria and Vancouver by Air Services w increased by an additional daily round-trip at midday. This flight has proved to be very popul within the short time it has been operating and has had an average load factor of 47 per cent. Tl number of scheduled flights between Victoria/Vancouver/Victoria is now 10 on Monday throu Thursday and 12 on Fridays. An extra evening flight is added as required when the House is session.

The Supervisory and Pilot Training staff received annual re-current aircraft training at Flig Safety, Wichita, Kansas, U.S.A. and American Airlines, Dallas, Texas, U.S.A. The remainder the pilot staff were trained "in house" using Branch facilities and training staff. Aircra Maintenance Engineers received aircraft and engine training at Pratt and Whitney, Montreal, a through the Flight Safety Company, Wichita, Kansas, U.S.A. The flight simulator continues to l used for the flight training of Tranport Canada pilots and other commercial pilots on a contra lease basis.

During the past year the Travel Recording Centre issued 41,373 travel warrants to Gover ment employees and the charge-back for personnel air transportation on Government aircraft the Ministries totalled $465,000; an increase of $90,000 over the 79/80 fiscal year.

Summary of Statistics for the Fiscal Year April 80–March 81

Aircraft Flying Hours

Beaver Aircraft (1)	478.5
Otter (1)	738.6
Beechcraft (2)	1,542.9
Cessna Citation (4)	3,980.8
Simulator (1)	192.6

Air Ambulance Flights

Number of flights	579
Number of patients	755
Flight time	1,530.6
Mileage	341,238

rial Photography

Total hours flown	852.4

erall Operating Statistics

Total Aircraft Flying Hours	6,933.4
Total Passenger Hours	3,167.2
Total Passengers Carried	15,000

akdown of Passengers Carried

Scheduled Flights	10,639
Non Scheduled Flights	4,361

REPORT OF THE DIRECTOR OF FINANCIAL SERVICES

The following pages disclose in detail the Ministry of Transportation and Highways expen tures for the fiscal year 1980–81.

The total gross expenditure of $650,095,586.29 for the period represents an increase $38,926,809 or 6.37 per cent over the preceding fiscal period.

The Highway Maintenance costs have increased marginally by 12.4 per cent to co inflationary costs and a modest increase in road inventory and additional ferry service to t public. A relatively mild winter was again experienced in many areas in 1980–81, similar to t 1979–80 season, which saved considerable expense on snowplowing, sanding and other win maintenance activities.

The Highway Construction Capital costs increased from $308,912,754 in fiscal ye 1979–80 to $341,223,515 in fiscal year 1980–81, an increase of $32,310,761 or 10.46 per ce Such increase is due chiefly to the major highway reconstruction required in relocating Highw 23 Revelstoke-Mica necessitated by the construction of the Revelstoke Dam by B.C. Hydro a Power Authority and major construction projects commenced on the Fraser River Crossi (Annacis) and North East Coal Development Access highway. Additional funding was provid by Bill 5 *Special Purpose Appropriation Act, 1980* and Bill 7 *Special Funds Act, 1980* (Fra River Crossing Fund) to assist the Ministry in financing the accelerated Highway Capital Progra

The Motor Vehicle Branch expenditures decreased from the previous fiscal period $3,481,584 due solely to the fact that no special chargeback payment by the Branch was made the Insurance Corporation of British Columbia for net supply and service costs. In the prior fis period a special chargeback payment of $4 million was made by the Branch to the Corporation f net supply and service costs.

The Air Services Branch expenditures decreased from the previous fiscal year by $2,100,1 as no aircraft were purchased new or replaced during the fiscal period such as was the case in t 1979–80 fiscal period. Operating costs did increase considerably due to inflationary costs on fu parts and supplies.

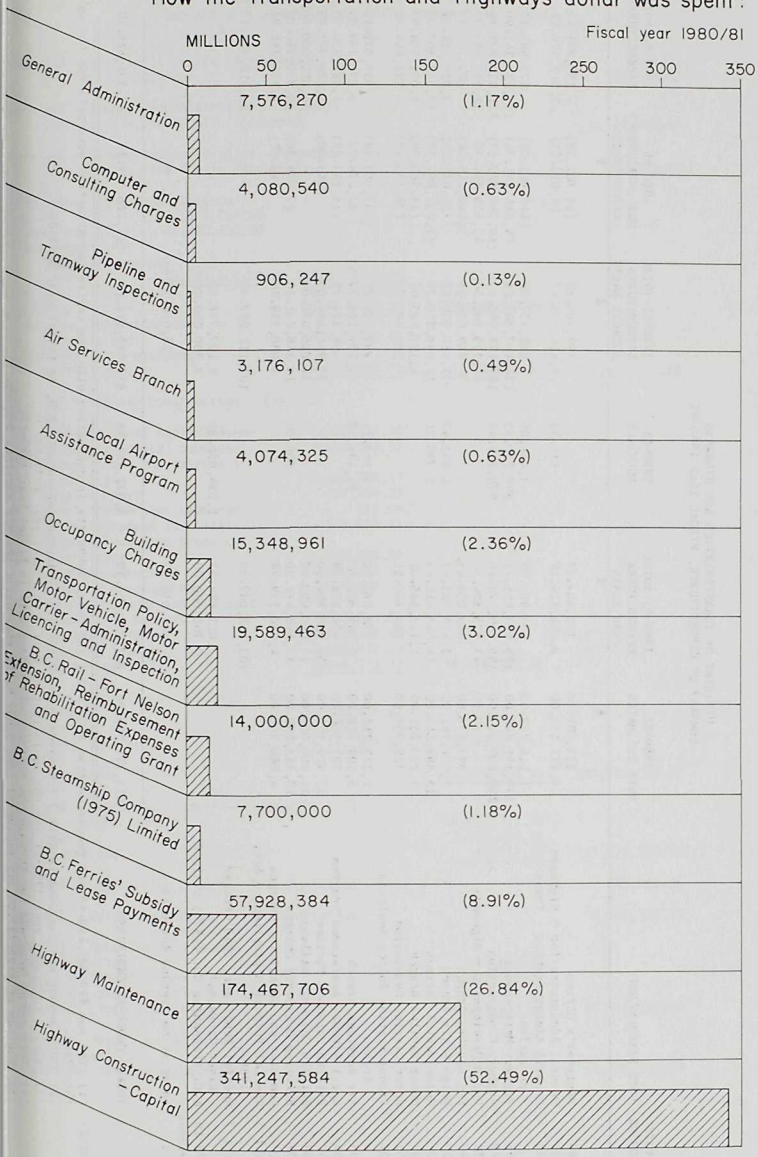
The Government through the Ministry's Local Airport Assistance Program continued provide grants to municipalities and Regional Districts for the development, construction a improvements to local air transport facilities with total funds expended equaling $4,074,32

The Government through the Ministry continued to assist financially B.C. Rail by providi $8 million for the rehabilitation and $6 million operating subsidy for the Fort Nelson Extensio

The Government through the Ministry provided funds by Special Warrant in the amount $7.7 million to the B.C. Steamship Company (1975) Limited to assist in the capital improvemer and operating loss of the *Princess Marguerite*.

Effective with the 1980–81 fiscal period the Government introduced a modified accr accounting system which basically attempts to charge or credit, as the case may be, all significa expenditures or receivables paid or received in the new fiscal year that pertain to the prior fis year, to the prior fiscal year's appropriations or revenue accounts. The cut-off date for the transactions is now May 31 each year instead of April 30.

How the Transportation and Highways dollar was spent:



MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURES, FISCAL YEAR 1980-81

VOTE NUMBER	VOTE DESCRIPTION	1980-81 VOTE ESTIMATES	1980-81 TOTAL EXPENDITURES CASH BASIS	1980-81 ACCRUALS	1980-81 TOTAL EXPENDITURES ACCRUAL BASIS	1980-81 NET OVER(UNDER) EXPENDITURES	1979-80 TOTAL EXPENDITURES
		$	$	$	$	$	$
193	Minister's Office	212,089.00	192,406.62		192,406.62	(19,682.38)	159,991.46
194	General Administration - Highways	6,423,536.00	6,414,374.12	131.35	6,414,505.47	(9,030.53)	5,517,926.02
195	General Administration - Transportation	1,118,973.00	965,906.98	3,451.00	969,357.98	(149,615.02)	875,596.27
196	Highway Maintenance	179,351,848.00	173,577,455.71	890,250.55	174,467,706.26	(4,884,141.74)	155,233,341.90
197	Highway Construction	208,209,007.00	188,449,173.20	978,913.47	189,428,086.67	(18,780,920.33)	251,833,278.64
198	Hydro Development - Highways	10.00	43,975,604.50		43,975,604.50(1)	43,975,594.50	32,366,551.39
199	Engineering Branch	997,476.00	849,056.86		849,056.86	(148,419.14)	684,742.75
200	Weigh Scale Branch	3,556,393.00	3,418,903.49	1,655.47	3,420,558.96	(135,834.04)	3,020,118.31
201	Motor Vehicle Branch	15,898,017.00	14,045,130.49	1,790.21	14,046,920.70	(1,851,096.30)	17,528,505.20
202	Motor Carrier Branch	1,150,751.00	1,136,365.02		1,136,365.02	(14,385.98)	1,001,804.97
203	Motor Carrier Commission	329,756.00	255,600.51		255,600.51	(74,155.49)	222,844.48
204	Transportation Policy Analysis Branch	1,323,211.00	779,062.10	8,145.21	787,207.31	(536,003.69)	539,071.18
205	Air Services Branch	3,108,928.00	3,083,632.67	92,474.10	3,176,106.77(5)	67,178.77	5,276,269.94
206	Local Airport Assistance Program	739,568.00	674,324.78		674,324.78	(65,243.22)	1,983,954.03
207	British Columbia Ferries	57,929,127.00	57,928,384.00		57,928,384.00	(743.00)	54,268,703.92
208	British Columbia Railway	14,000,000.00	14,000,000.00		14,000,000.00	-	14,000,000.00(2)
209	Building Occupancy Charges	15,356,000.00	15,348,461.50	500.00	15,348,961.50	(7,038.50)	15,920,740.02
210	Computer and Consulting Charges	4,080,900.00	4,080,539.98		4,080,539.98	(360.02)	2,355,331.82
Bill 5	Special Purpose Appropriation Act, 1980		103,112,087.50		103,112,087.50	-	24,712,924.10(3)
Bill 7	Special Funds Act, 1980 (Fraser River Crossing)		7,013,684.53	1,094,051.60	8,107,736.13	-	-
S/W 19	B.C. Steamships Co. (1975) Limited		7,700,000.00		7,700,000.00	-	-
Revenue Act	Interest on Overdue Accounts		24,068.77		24,068.77(4)	-	-
	TOTAL, GROSS EXPENDITURES	513,785,590.00	647,024,223.33	3,071,362.96	650,095,586.29	17,366,103.89	587,501,696.40

NOTES: (1) The sum $43,685,290.48 was recovered from B.C. Hydro and Power Authority in connection with the capital construction work paid for through this Vote.
(2) This amount was included in Bill 7 - Revenue Surplus of 1977/78 Appropriation Act 1979, in fiscal year 1979-80.
(3) Bill 5 in fiscal year 1980-81 was the equivalent of Bill 7 in fiscal year 1979-80.
(4) This amount was paid for through the Ministry of Finance Vote in Fiscal Year 1980-81.
(5) The sum of $495,337.50 was recovered from other Ministries using the Air Services Branch.

MINISTRY OF TRANSPORTATION AND HIGHWAYS
SUMMARY OF EXPENDITURE BY VOTE, FISCAL YEAR 1980-81

	$	$	$
Vote 193 - Minister's Office (for details, see Public Accounts)			192,406.62
Vote 194 - General Administration - Highways (for details, see Public Accounts)			6,414,505.47
Vote 195 - General Administration - Transportation (for details, see Public Accounts)			969,357.98
Vote 196 - Highway Maintenance			
Roads	122,873,054.58		
Snow removal	26,440,730.00		
Intra-Ministry materials useage credits	10,503,602.20cr.	138,810,182.38	
Bridges		8,792,024.34	
Ferries		25,493,886.14	173,096,092.86
Machinery operation and repairs, etc.		50,863,639.12	
Intra-Ministry equipment rental credits		49,492,025.72cr.	1,371,613.40	174,467,706.26
Vote 197 - Highway Construction - Capital			
Roads			
Archaeological explorations		163,151.30	
Equipment capital purchases		3,706,657.67	
Geotechnical and materials testing		8,083,828.17	
Legal surveys		482,984.38	
Metric conversion campaign		326.09	
Radio-telephone installations		588,077.42	
Rights-of-way and property purchases		4,050,924.57	
Roads construction		84,969,874.06	
Roadside development		1,843,086.75	
Safety measures and accident reference markers		520,641.82	
Secondary highways		1,966,132.55	
Signals, lighting etc.		3,388,912.83	
Surveys generally		9,014,573.11	118,779,170.72	
Bridges, ferries and landings			
Bridges		16,405,619.91	
Ferries		3,030,365.99	
Ferry landings		1,137,592.07	20,573,577.97	
Hardsurfacing			50,075,337.98	189,428,086.67
Vote 198 - Hydro Development - Highways			
Roads construction			36,835,211.16	
Bridges			7,093,060.55	
Hardsurfacing			47,332.79	43,975,604.50(1)
Vote 199 - Engineering Branch - Transportation				849,056.86
Vote 200 - Weigh Scale Branch - Transportation				3,420,558.96
Vote 201 - Motor Vehicle Branch			
Administration			833,873.75	
Motor Vehicle Division			4,803,563.34	
Motor Vehicle Inspection Division			3,550,272.08	
Drivers' Licence Division			4,859,211.53	14,046,920.70
Vote 202 - Motor Carrier Branch			
Administration			230,118.49	
Investigation and inspection			906,246.53	1,136,365.02

	$	$	$
Vote 203 - Motor Carrier Commission			255,600.51
Vote 204 - Transportation Policy Analysis Branch			
Administration		538,109.81	
Northeast Coal Development project		161,737.51	
Grants and subsidies		87,359.99	787,207.31
Vote 205 - Air Services Branch			3,176,106.77(4)
Vote 206 - Local Airport Assistance Program			674,324.78
Vote 207 - British Columbia Ferries			57,928,384.00(2)
Vote 208 - British Columbia Railway			14,000,000.00
Vote 209 - Building Occupancy Charges			
Occupancy charges - Transportation	2,201,984.15		
Tenant improvement charges - Transportation	789.88	2,202,774.03	
Occupancy Charges - Highways	12,740,717.85		
Tenant improvement charges - Highways	405,469.62	13,146,187.47	15,348,961.50
Vote 210 - Computer and Consulting Charges			
Transportation charges		2,406,175.45	
Highways charges		1,674,364.53	4,080,539.98
Bill 5 - Special Purpose Appropriation Act, 1980			
Transportation			
Local Airport Assistance Program		3,400,000.00	
Highways			
Roads construction	67,290,884.90		
Fencing	1,148,038.61		
Guardrail	3,010,226.15		
Bridges	12,948,046.31		
Ferries	46,935.50		
Ferry landings	470,465.18		
Hardsurfacing	14,797,490.85	99,712,087.50	103,112,087.50
Bill 7 - Special Funds Act, 1980 (Fraser River Crossing)			8,107,736.13
Special Warrant No.19 - B.C. Steamships Co.(1975) Ltd.			7,700,000.00
Revenue Act (R.S.B.C.1979, Chapter 367, Section 59)			
Interest on Overdue Accounts			24,068.77(5)
TOTAL, GROSS EXPENDITURE			650,095,586.29(3)

NOTES: (1) The sum of $43,685,290.48 was recovered from B.C. Hydro and Power Authority in connection with the capital construction work paid for through this vote.

(2) Comprised of the Annual Highway Equivalent Subsidy to the B.C. Ferry Corporation ($53,106,427.00) and lease payments ($4,821,957.00) for three vessels operated by the Corporation.

(3) The sum of $3,071,362.96 was reversed from fiscal year 1981-82 and charged to fiscal year 1980-81 in conjunction with the modified accruals program instituted by the Office of the Comptroller-General.

(4) The sum of $495,337.50 was recovered from other Ministries using the Air Services Branch.

(5) This amount was paid for through the Ministry of Finance Vote in Fiscal Year 1980-81.

1

DETAILS OF BUDGETARY EXPENDITURES BY APPROPRIATIONS (VOTES, BILLS AND SPECIAL WARRANTS), AND BY STANDARD EXPENDITURE CLASSIFICATIONS

Vote 193

MINISTER'S OFFICE

Description

This vote provides for the office of the Minister of Transportation and Highways, including his salary and expenses and those of his immediate staff.

Appropriations		Actual Expenditures
212,089	Total of vote.....	192,406
	Expenditure by standard classification	
	Salaries	152,840
	Temporary assistance	769
		153,610
	Travel expense	27,255
	Office expense	11,430
	Materials and supplies	110
		192,406

2

Vote 194

GENERAL ADMINISTRATION - HIGHWAYS

Description

This vote provides for the over-all policy direction of the Ministry, including the offices of the Deputy Minister and Assistant Deputy Ministers, as well as administrative and support services to the operational, planning, construction, and research programs.

Appropriations		Actual Expenditures
6,423,536	Total of vote.....	6,414,505

Expenditure by standard classification	
Salaries	4,365,002
Temporary assistance	327,551
	4,692,553
Travel expense	300,083
Professional and special services	218,574
Office expense	969,108
Office furniture and equipment	51,295
Advertising and publications	81,779
Materials and supplies	88,270
Rentals-outside suppliers	1,899
Acquisition-machinery and equipment	10,940
	6,414,505

3

Vote 195

GENERAL ADMINISTRATION - TRANSPORTATION

Description

This vote provides for the over-all policy direction of the Transportation Division of the Ministry, including the office of the Assistant Deputy Minister, as well as administrative and support services to the operational, planning, and research programs.

Appropriations		Actual Expenditures
1,118,973	Total of vote.....	969,354

Expenditure by standard classification	
Salaries	571,959
Temporary assistance	39,362
	611,321
Travel expense	22,157
Professional and special services	85,834
Office expenses	224,007
Office furniture and equipment	11,436
Advertising and publications	5,935
Materials and supplies	8,664
	969,354

4

Vote 196

HIGHWAY MAINTENANCE

Description

This vote provides for the maintenance, repair, and operation of *Provincial highways, roads, bridges, ferries, landings, tunnels, equipment* operation and replacement, including winter maintenance of snow and ice removal, and the payment of grants, contributions, and subsidies.

Appropriations		Actual Expenditures
179,351,848	Total of vote.....	174,467,706

Expenditure by standard classification		
Salaries		79,861,330
Temporary assistance		24,801,264
		104,662,594
Travel expense		3,731,999
Professional and special services		531,141
Office expense		238,980
Office furniture and equipment		164,489
Advertising and publications		295,504
Materials and supplies		52,823,139
Motor-vehicles		2,069,928
Rentals-outside suppliers		12,024,179
Rentals-intra-ministry		39,027,304
Acquisition-land and buildings		3,876,411
Acquisition-machinery and equipment		12,376,905
Grants, contributions, and subsidies		841,704
Other expenditure		360,954
		233,025,231
Recoveries		
Intra-ministry rental credits	49,492,025	
British Columbia Ferries	9,065,504	
		58,557,529
		174,467,706

5

Vote 197

HIGHWAY CONSTRUCTION - CAPITAL

Description

This vote provides for the planning, engineering, design, survey, construction, reconstruction, right-of-way acquisition, property purchase, and paving of Provincial highways, roads, bridges, ferries, landings, and tunnels; purchase of additional machinery and equipment; and payment of authorized grants and contributions to municipalities in connection with their highway systems.

Appropriations		Actual Expenditures
208,209,007	Total of vote	189,428,086
	Expenditure by standard classification	
	Salaries	23,234,403
	Temporary assistance	9,753,011
		32,987,414
	Travel Expense	3,109,040
	Professional and special services	4,531,118
	Office expense	163,316
	Office furniture and equipment	89,998
	Advertising and publications	39,750
	Materials and supplies	15,327,482
	Motor-vehicles	447,597
	Rentals-outside suppliers	13,206,490
	Rentals-intra-ministry	7,242,800
	Acquisition-land and buildings	103,076,659
	Acquisition-machinery and equipment	4,575,107
	Grants, contributions, and subsidies	4,631,306
		189,428,086

6

Vote 198

HYDRO DEVELOPMENT - HIGHWAYS

Description

This vote provides for the right-of-way acquisition, planning, engineering design, survey, construction, or reconstruction, paving, bridge construction or reconstruction, ferry construction, and any other related costs in connection with the construction of Provincial Highway 23, Revelstoke to Mica Creek and the Waneta-Nelway Highway that results from the construction of the Revelstoke Dam and the Seven Mile Dam by British Columbia Hydro and Power Authority.

Appropriations		Actual Expenditures
10	Total of vote	43,975,604

Expenditure by standard classification	
Salaries	1,424,549
Temporary assistance	1,098,490
	2,523,039
Travel expense	222,835
Professional and special services	424,081
Office expense	11,840
Office furniture and equipment	478
Materials and supplies	207,364
Rentals-outside suppliers	277,101
Rentals-intra-ministry	320,605
Acquisition-land and buildings	39,984,674
Acquisition-machinery and equipment	3,581
	43,975,604.(1)

NOTE: (1) The sum of $43,685,290.48 was recovered from B.C. Hydro and Power Authority in connection with the capital construction work paid for through this vote.

7

Vote 199

ENGINEERING BRANCH

Description

This vote provides for processing of applications, monitoring of construction and final inspections, as well as annual inspections and certification of industrial projects subject to the Railway Act, Pipe-lines Act, and the Industrial Transportation Act. The Branch examines and certifies operating personnel for railway, aerial tramways, and heavy automotive equipment on private and industrial roads and provides a close liaison with the Motor-vehicle Branch and the Ministry of Energy, Mines and Petroleum Resources, as well as the Workers' Compensation Board, in matters of standardization of operational safety requirements.

Appropriations		Actual Expenditures
997,476	Total of vote.....	849,056

Expenditure by standard classification	
Salaries	669,127
Temporary assistance	13,717
	682,844
Travel expense	99,639
Professional and special services	7,705
Office expense	21,465
Office furniture and equipment	3,467
Materials and supplies	8,986
Motor-vehicles	18,881
Rentals-outside suppliers	605
Acquisition-machinery and equipment	5,452
	849,056

8

Vote 200

WEIGH SCALE BRANCH

Description

This vote provides for the administration of the Commercial Transport Act and regulations and in part, to assist in the enforcement of the Motor-vehicle Act, Motor Carrier Act, Motive-Fuel Use Tax Act, Automobile Insurance Act, Highway Act, Mobile Home Act, and the Motor-Vehicle Transport Act (Canada). The Branch operates a network of weigh scale stations throughout the Province to check commercial vehicles for compliance with the statutes and regulations, and to issue permits and collect fees.

Appropriations		Actual Expenditures
3,556,393	Total of vote	3,420,558

Expenditure by standard classification	
Salaries	2,904,927
Temporary assistance	19,934
	2,924,861
Travel expense	183,378
Office expense	23,276
Office furniture and equipment	6,049
Advertising and publications	29
Materials and supplies	204,215
Motor-vehicles	11,522
Rentals-outside suppliers	1,981
Acquisition-machinery and equipment	65,245
	3,420,558

9

Vote 201

MOTOR-VEHICLE BRANCH

Description

This vote provides for the licensing, registering, and transferring of vehicles; for determining the fitness and ability of persons to operate vehicles, for recording of violations and monitoring of drivers' records; for safety inspections and establishment of standards of vehicles and for highway safety programs.

Appropriations		Actual Expenditures
15,898,017	Total of vote.....	14,046,920

Expenditure by standard classification	
Salaries	10,601,612
Temporary assistance	684,770
	11,286,382
Travel expense	371,513
Professional and special services	288,737
Office expense	484,745
Office furniture and equipment	43,599
Advertising and publications	134,117
Materials and supplies	988,807
Motor-vehicles	29,892
Rentals-outside suppliers	15,137
Acquisition-machinery and equipment	8,701
Grants, contributions, and subsidies	387,054
Other expenditure	8,231
	14,046,920

10

Vote 202

MOTOR CARRIER BRANCH

Description

This vote provides for the conducting of investigations into the licensing of the commercial motor carrier industry in the for-hire transportation of freight and passengers; examination of schedules of rates charged by carriers as well as time schedules; the making of recommendations to the Motor Carrier Commission and the implementation of the decisions made by the Commission with respect to such applications; and the safety inspections of public passenger vehicles.

Appropriations		Actual Expenditures
1,150,751	Total of vote.....	1,136,365

Expenditure by standard classification	
Salaries	866,652
Temporary assistance	143,519
	1,010,171
Travel expense	39,463
Office expense	64,599
Office furniture and equipment	637
Materials and supplies	14,376
Motor-vehicles	6,056
Rentals-outside suppliers	1,060
	1,136,365

11

Vote 203

MOTOR CARRIER COMMISSION

Description

This vote provides for the regulation of the motor carrier industry intra-provincially as a Provincial Board pursuant to the Motor Carrier Act, and extra-provincially as a Federal Board pursuant to the Motor Vehicle Transport Act (Canada).

It also provides for the administration of the Telecommunications Utilities Act.

Appropriations		Actual Expenditures
329,756	Total of vote.....	255,600
	Expenditure by standard classification	
	Salaries	172,598
	Travel expense	7,776
	Professional and special services	61,223
	Office expense	5,172
	Office furniture and equipment	212
	Materials and supplies	594
	Motor-vehicles	5,300
	Rentals-outside suppliers	2,723
		255,600

12

Vote 204

TRANSPORTATION POLICY ANALYSIS BRANCH

Description

This vote provides for the development, co-ordination, evaluation, and implementation of transportation policies and programs.

Appropriations		Actual Expenditures
1,323,211	Total of vote	787,207

Expenditure by standard classification	
Salaries	130,779
Temporary assistance	56,164
	186,943
Travel expense	20,629
Professional and special services	470,687
Office expense	5,408
Office furniture and equipment	1,023
Advertising and Publications	2,713
Materials and supplies	8,097
Rentals-outside suppliers	4,344
Grants, contributions, and subsidies	87,359
	787,207

13

Vote 205

AIR SERVICES BRANCH

Description

This vote provides for the provision of aircraft and crews to provide the air services requirements for the Provincial Government, such as air services, air transportation, air training services, and aerial photographic services.

Appropriations		Actual Expenditures
3,108,928	Total of vote	3,176,106
	Expenditure by standard classification	
	Salaries	1,364,163
	Temporary assistance	49,938
		1,414,101
	Travel expense	44,791
	Professional and special services	22,403
	Office expense	17,598
	Office furniture and equipment	3,226
	Materials and supplies	1,870,060
	Rentals-outside suppliers	25,288
	Acquisition-machinery and equipment	273,973
		3,671,443
	Recoveries	
	Other ministries	495,337
		3,176,106

14

Vote 206

LOCAL AIRPORT ASSISTANCE PROGRAM

Description

This vote provides for grants and development, construction, and administration costs relating to the construction or improvement of air transport facilities and navigational aids throughout the Province.

Appropriations		Actual Expenditures
739,568	Total of vote	674,324

Expenditure by standard classification	
Salaries	109,264
Temporary assistance	118,694
	227,958
Travel expense	38,477
Professional and special services	3,703
Office expense	82cr
Office furniture and equipment	423
Advertising and publications	5,477
Materials and supplies	94,707
Rentals-outside suppliers	303,657
	674,324

15

Vote 207

BRITISH COLUMBIA FERRIES

Description

This vote provides for the annual highway equivalent subsidy to the British Columbia Ferry Corporation, and lease payments and related administrative costs for ferries subleased to and operated by the Corporation.

Appropriations		Actual Expenditures
57,929,127	Total of vote	57,928,384

Expenditure by standard classification	
Professional and special services	2,157
Rentals-outside suppliers	4,819,800
Grants, contributions, and subsidies	53,106,427
	57,928,384

16

Vote 208

BRITISH COLUMBIA RAILWAY

Description

This vote provides for grants to the British Columbia Railway to underwrite the cost of rehabilitating the Fort Nelson Extension and compensating the railway for Government-mandated services.

Appropriations		Actual Expenditures
14,000,000	Total of vote	14,000,000
	Expenditures by standard classification	
	Grants, contributions, and subsidies	14,000,000
		14,000,000

17

Vote 209

BUILDING OCCUPANCY CHARGES

Description

This vote provides for payments to the British Columbia Buildings Corporation for rental and maintenance of buildings, and office accommodation occupied by the Ministry.

Appropriations		Actual Expenditures
15,356,000	Total of vote	15,348,961
	Expenditure by standard classification	
	Rentals-outside suppliers	15,348,961
		15,348,961

18

Vote 210

COMPUTER AND CONSULTING CHARGES

Description

This vote provides for payments to the British Columbia Systems Corporation for data processing and management consulting services.

Appropriations		Actual Expenditures
4,080,900	Total of vote	4,080,539
	Expenditures by standard classification	
	Data systems and processing	4,080,539
		4,080,539

19

BILL 5

SPECIAL PURPOSE APPROPRIATION ACT 1980

Description

This Act provided funds not exceeding $100 Million for accelerated highway construction and funds not exceeding $3.4 million for the purpose of establishing, expanding and improving airport facilities.

Appropriations		Actual Expenditures
103,400,000	Total of bill.....	103,112,087

	Highway Construction	Airport Facilities
Expenditures by standard classification		
Salaries	6,304,815	
Temporary assistance	3,412,552	7,003
	9,717,367	
Travel expense	546,971	
Professional and special services	762,736	
Office expense	5,938	500
Office furniture and equipment	5,645	
Advertising and publications	15,297	
Materials and supplies	10,710,565	12,410
Rentals-outside suppliers	24,440,104	432,086
Rentals-intra ministry	2,858,425	
Acquisition-land and buildings	50,647,059	
Acquisition-machinery and equipment	1,974	
Grants, contributions and subsidies		2,948,000
	99,712,087	3,400,000

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BILL 7

SPECIAL FUNDS ACT 1980 (FRASER RIVER CROSSING FUND)

Appropriations		Actual Expenditures
30,000,000	Total of bill.....	8,107,736

Expenditure by standard classification	
Salaries	163,224
Temporary assistance	41,189
	204,413
Travel expense	8,615
Professional and special services	707,338
Office expense	210
Advertising and publications	1,084
Materials and supplies	200,852
Rentals-outside suppliers	59,130
Rentals-intra-ministry	41,742
Acquisition-land and buildings	6,849,213
Acquisition-machinery and equipment	35,134
	8,107,736

21

SPECIAL WARRANT 19

BRITISH COLUMBIA STEAMSHIP COMPANY (1975) LIMITED

Description

To provide assistance to the B. C. Steamship Company (1975) Ltd in covering their operating loss and capital expenditures

Appropriations		Actual Expenditures
7,700,000	Total of special warrant.....	7,700,000

Expenditure by standard classification	
Grants, contributions and subsidies	7,700,000

22

REVENUE ACT (R.S.B.C. 1979, CHAPTER 367.59)

INTEREST ON OVERDUE ACCOUNTS

	Actual Expenditures
Total of revenue act.....	24,068(1)

	Highways	Transportation
Expenditure by standard classification		
Other expenditure	23,312	756

NOTES: (1) This amount was paid for through the Ministry of Finance vote in the Fiscal Year 1980-81

STATEMENT OF REVENUE AND EXPENDITURES FOR FERRIES FOR WHICH THE COST OF MAINTENANCE AND OPERATION IS PROVIDED FOR IN MINISTRY OF TRANSPORTATION AND HIGHWAYS ESTIMATES

NAME OF FERRY	REVENUE $	EXPENDITURES $
Albion-Fort Langley Ferry	NIL	1,544,226.55
Alert Bay Ferry	241,857.60	1,413,257.95
Arrow Park Ferry	NIL	121,550.44
Barkley Sound Ferry subsidy	NIL	74,000.00
Barnston Island Ferry	NIL	273,288.72
Big Bar Ferry	NIL	53,040.27
Castlegar Ferry	NIL	237,393.70
Claynurst Ferry	NIL	273,979.07
Comox-Powell River Ferry	1,816,863.90	3,103,148.99
Cortes Island Ferry	107,560.05	809,103.55
Darrell Bay-Woodfibre Ferry	17,029.00	817,548.42
Denman Island Ferry	121,372.90	1,188,650.85
Fort Nelson Hoverferry	NIL	362,883.76
Francois Lake Ferry	NIL	1,387,587.98
Gabriola Ferry	335,714.48	1,723,788.14
Glade Ferry	NIL	280,285.44
Harrop Ferry	NIL	217,348.89
Hornby Island Ferry	43,388.40	930,823.05
Isle Pierre Ferry	NIL	31,477.77
Kootenay Lake Ferry	NIL	1,652,972.38
Lasqueti Island Ferry subsidy	NIL	183,000.00
Little Fort Ferry	NIL	53,562.76
Lytton Ferry	NIL	155,183.89
Marguerite Ferry	NIL	123,764.31
McLure Ferry	NIL	47,526.60
Miscellaneous	NIL	134,427.54
Misty Islands Ferry subsidy	NIL	31,500.00
Needles-Fauquier Ferry	NIL	917,319.50
Newcastle Island Ferry subsidy	NIL	21,500.00
North Bend Ferry	NIL	251,318.00
Prince Rupert Ferry subsidy (Dodge Cove)	NIL	13,320.00
Quadra Island Ferry	293,940.24	2,273,608.81
Sandspit-Skidegate Ferry	123,404.04	560,126.18
Shuswap Lake Ferry subsidy	NIL	24,000.00
Sunshine Bay Drydock	NIL	19,325.78
Texada Island Ferry	175,996.30	1,677,862.02
Thetis Island Ferry	64,115.40	1,144,799.19
Upper Arrow Lakes Ferry	NIL	1,281,415.84
Usk Ferry	NIL	83,970.40
TOTALS:	3,141,242.31	25,493,886.14

STATEMENT OF VALUE OF INTRA-MINISTRY
USAGE BY HIGHWAY DISTRICT AND BRANCH
FISCAL YEAR 1980-81

HIGHWAY DISTRICT AND BRANCH	VALUE OF USAGE OF MINISTRY OWNED EQUIPMENT $	VALUE OF USAGE OF CRUSH, MIX AND GUARDRAIL $
Burns Lake	1,021,130.57	209,298.65
Chilliwack	978,043.00	113,735.00
Courtenay	1,416,216.63	357,682.30
Cranbrook	919,569.00	213,248.50
Creston	766,919.00	181,020.00
Dawson Creek	1,811,176.48	743,809.00
Dease Lake	1,166,085.00	293,812.00
Fernie	754,550.00	175,152.30
Fort St.John	1,645,712.89	417,086.00
Golden	862,872.92	265,436.00
Gibsons	479,185.05	104,004.30
Grand Forks	858,281.17	360,715.00
Hope	724,978.00	219,986.00
Kamloops	1,200,523.86	347,606.00
Kelowna	736,651.16	95,329.00
Lillooet	856,298.78	514,532.00
Merritt	1,007,158.70	703,802.00
McBride	876,178.00	394,396.00
Nanaimo	1,187,168.47	173,747.55
Nelson	943,553.00	230,773.00
New Denver	1,004,529.11	298,008.05
New Westminster	1,302,327.00	79,164.00
Centreline Marking	343,429.00	NIL
Dock District	526,150.49	NIL
Electrical Maintenance	335,313.00	NIL
North Vancouver	1,084,344.37	298,181.05
Patrol	190,295.10	NIL
100 Mile House	946,951.34	465,646.00
Penticton	992,133.00	417,061.00
Port Alberni	894,718.39	199,931.60
Prince George	1,675,501.77	311,801.00
Prince Rupert	974,707.73	70,491.00
Quesnel	1,682,276.00	149,464.00
Revelstoke	913,840.18	243,208.50
Rossland	755,895.33	218,016.40
Saanich	1,189,984.32	128,191.00
Salmon Arm	1,175,160.00	273,849.00
Smithers	1,114,500.68	158,981.00
Terrace	750,128.15	84,463.00
Vandernoof	1,427,991.65	137,309.00
Vernon	866,447.68	286,813.00
Williams Lake	1,488,535.90	366,351.00
Region 6 Ferry District	51,801.00	NIL
Region/District 1	530,732.33	NIL
Region/District 2	606,244.20	59,286.00
Region/District 3	743,056.43	45,143.00
Region/District 4	1,082,021.14	73,008.00
Region/District 5	69,503.33	NIL
Region/District 6	344,578.42	24,065.00
Headquarters -		
Design & Survey Branch	392,354.00	NIL
Bridge Engineering Branch	251,196.00	NIL
Construction Branch	1,090,034.00	NIL
Paving Branch	1,491,922.00	NIL
Traffic Engineering Branch	34,107.00	NIL
Planning Branch	3,143.00	NIL
Geotechnical & Materials Testing Branch	1,140,261.00	NIL
Equipment Services Branch	113,660.00	NIL
TOTALS:	49,492,025.72	10,503,602.20

STATEMENT OF EXPENDITURE BY HIGHWAY DISTRICT, FISCAL YEAR 1980/81

VOTE 196 HIGHWAY MAINTENANCE

HIGHWAY DISTRICT	ROADS	SNOW REMOVAL	BRIDGES	FERRIES	MACHINERY	TOTAL
	$	$	$	$	$	$
Region/District 1 - Burnaby	1,610,583.38		570,818.56			2,181,401.94
North Vancouver	2,866,694.72	347,206.00	152,200.00	817,548.42		4,183,649.14
Gibsons	1,409,960.21	133,646.00	31,937.81			1,575,544.02
Patrol	508,591.44					508,591.44
New Westminster	5,037,860.29	322,844.00	352,769.58	1,817,515.27		7,530,989.14
Chilliwack	2,336,789.81	323,397.00	184,098.07			2,844,284.88
Hope	1,757,557.58	614,889.00	54,200.00	251,318.00		2,677,964.58
Dock	1,305,800.81cr.					1,305,800.81cr.
Electrical Maintenance	1,504,795.89					1,504,795.89
Centreline Marking	4,109,997.62					4,109,997.62
Region/District 2 - Kamloops	2,355,075.47		373,680.94			2,728,756.41
Kamloops	2,859,451.83	1,261,191.00	153,375.58	101,088.76		4,375,107.17
Salmon Arm	2,571,551.36	821,021.00	196,520.92	24,000.00		3,613,093.28
Vernon	2,159,406.01	721,582.00	121,994.37			3,002,982.38
Penticton	2,398,383.60	594,079.00	155,065.93			3,147,528.53
Merritt	2,432,030.03	534,462.00	107,462.73	155,183.89		3,229,138.65
Lillooet	2,317,989.61	422,278.00	202,533.91			2,942,801.52
100 Mile House	2,530,845.78	657,493.00	85,744.26	53,040.27		3,327,123.31
Kelowna	1,504,467.36	671,707.00	147,069.30			2,323,243.66
Region/District 3 - Nelson	1,634,174.25		137,711.66			1,771,885.91
Nelson	2,058,452.47	755,570.00	164,160.79	2,169,932.49		5,148,115.75
Rossland	1,553,945.87	720,780.00	70,479.66	237,393.70		2,582,599.23
Grand Forks	1,998,842.21	597,363.00	104,700.00			2,700,905.21
New Denver	1,945,010.12	620,611.00	156,043.95	1,038,869.94		3,760,535.01
Cranbrook	1,914,613.10	556,417.00	122,704.83			2,593,734.93
Fernie	1,159,567.55	337,910.00	44,402.43			1,541,879.98
Golden	1,695,396.96	668,816.00	152,956.97			2,517,169.93
Revelstoke	1,749,725.13	937,235.00	136,980.38	1,281,415.84		4,105,356.35
Creston	1,505,188.55	595,657.00	71,187.39			2,172,032.94
Region/District 4 - Prince George	2,181,076.68		108,917.88			2,289,994.56
Prince George	3,498,005.60	1,810,885.00	666,879.58	31,477.77		6,007,247.95
Quesnel	3,531,250.79	1,244,748.00	165,457.58	123,764.31		5,065,220.68
Dawson Creek	3,798,105.52	1,405,175.00	250,300.00	273,979.07		5,727,559.59
Fort St. John	3,370,673.92	1,166,081.00	227,314.49	362,883.76		5,126,953.17
Vanderhoof	1,999,663.70	736,787.00	176,152.82			2,912,603.52
McBride	2,024,105.39	888,999.00	105,167.97			3,018,272.36
Williams Lake	3,773,845.23	943,946.00	304,115.70			5,021,906.93
Region/District 5 - Terrace	1,195,030.20		56,592.08			1,251,622.28
Prince Rupert	2,201,885.66	594,800.00	175,093.13	604,946.18		3,576,724.97
Terrace	1,764,638.91	385,005.00	185,705.67	83,970.40		2,419,319.98
Dease Lake	2,383,543.45	955,529.00	95,204.10			3,434,276.55
Smithers	2,197,939.59	673,056.00	161,674.71			3,032,670.30
Burns Lake	1,992,128.94	806,527.00	106,000.71	1,387,587.98		4,292,244.63
Region/District 6 - Nanaimo	1,217,477.40		445.68			1,217,923.08
Nanaimo	2,912,654.61	383,123.00	135,038.57	21,500.00		3,452,316.18
Saanich	3,581,030.76	314,258.00	241,460.13			4,136,748.89
Port Alberni	2,772,670.38	316,435.00	210,011.73	257,000.00		3,556,117.11
	3,352,483.83	599,222.00	238,971.81			4,190,677.64

HIGHWAY DISTRICT		ROADS	SNOW REMOVAL	BRIDGES	FERRIES	MACHINERY	
ROADS GENERALLY							
F-0044-Advertising and Publicity	142,114.36						
M-0042-Automatic signals, railway	291,292.54						
M-0055-Avalanche control	378,010.43						
Crushing operations	6,696,517.52						
F-0048-Damage Claims	349,935.49						
F-0046-Engineers-in-training	153,420.93						
F-0052-Grants, engineering and dyking	58,595.19						
Guardrail manufacture and purchases	2,358,388.68						
H-0060-Highway signs operation (financing)	339,113.70cr.						
F-0049-Insurance re trailer moves and household effects	25,704.00						
Intra-Ministry material use credits	10,503,602.20cr.						
F-0041-Leases and agreements	228,897.98						
M-0053-Maintenance Management	21,411.26						
F-0051-Miscellaneous	161,847.29						
Mixing operations	1,978,776.17						
O-0062-Planning branch operations	476,584.21						
M-0054-Sandbags and flood prevention	392,688.00						
M-0056-Scenic Highway Act	2,114.00						
E-0068-Street lighting and traffic signals	1,162,445.83						
F-0043-Taxes and repairs	9,656.96						
E-0067-Traffic branch operations	394,409.49	4,440,094.43					4,440,094.43
BRIDGES GENERALLY							
B-0059-Bailey bridges	1,085,676.05						
B-0058-Bridge damage	45,043.93			1,130,719.98			1,130,719.98
FERRIES GENERALLY							
H-0061-Ferries generally					134,427.54		134,427.54
MACHINERY GENERALLY							
H-0064-Autoplan insurance	351,219.29						
Intra-Ministry equipment rental credits	49,492,025.72cr.						
H-0063-Machinery maintenance and operation - Headquarters	2,135,441.92						
Machinery maintenance and operation - Districts	33,410,813.68						
H-0066-Machinery replacement	14,042,556.57						
H-0065-Radio-telephone maintenance	923,607.66					1,371,613.40	1,371,613.40
		112,369,452.38	26,440,730.00	8,792,024.34	25,493,886.14	1,371,613.40	174,467,706.26

SUMMARY OF CAPITAL AND MAINTENANCE EXPENDITURES FOR ROADS, BRIDGES, FERRIES, LEGAL SURVEYS, RIGHTS-OF-WAY, HARDSURFACING, ETC. FOR THE FISCAL YEAR 1980-81
(FOR DETAILS SEE FOLLOWING SCHEDULES BY ELECTORAL DISTRICTS)

ELECTORAL DISTRICTS	VOTE 197	BILL 5	BILL 7	VOTE 198	TOTAL CAPITAL	MAINTENANCE	TOTAL
	$	$	$	$	$	$	$
Alberni	271,304.67	560,311.38	-	-	831,616.05	1,997,459.23	2,829,075.28
Atlin	8,327,410.14	6,690,476.49	-	-	15,017,886.63	4,745,464.30	19,763,350.93
Boundary-Similkameen	5,510,960.69	2,219,843.25	-	-	7,730,803.94	5,133,187.71	12,863,991.65
Burnaby-Edmonds	190,830.85	15,276.51	-	-	206,107.36	2,498,711.19	2,704,818.55
Burnaby North	185,789.92	-	-	-	185,789.92	164,497.48	350,287.40
Burnaby-Willingdon	2,223,815.88	38,880.07	-	-	2,262,695.95	161,535.06	2,424,231.01
Cariboo	13,569,043.96	10,934,223.42	-	-	24,503,267.38	13,015,026.86	37,518,294.24
Central Fraser Valley	243,481.73	75,000.00	-	-	318,481.73	569,903.44	888,385.17
Chilliwack	655,809.45	559,100.76	-	-	1,214,910.21	1,220,134.90	2,435,045.11
Columbia River	2,119,713.17	804,193.59	-	-	2,923,906.76	3,838,014.13	6,761,920.89
Comox	2,803,851.11	4,562,996.05	-	-	7,366,847.16	6,828,323.82	14,195,170.98
Coquitlam-Moody	7,299,803.77	265,921.24	-	-	7,565,725.01	345,902.95	7,911,627.96
Cowichan-Malahat	2,662,475.57	2,091,790.40	-	-	4,754,265.97	3,931,618.74	8,685,884.71
Delta	2,159,315.01	801,651.20	7,050,033.05	-	10,010,999.26	792,727.73	10,803,726.99
Dewdney	5,935,145.44	1,406,403.52	-	-	7,341,548.96	1,962,488.51	9,304,037.47
Esquimalt-Port Renfrew	180,777.50	635,813.58	-	-	816,591.08	1,820,707.79	2,637,298.87
Kamloops	6,496,315.78	2,214,868.35	-	-	8,711,184.13	7,765,205.45	16,476,389.58
Kootenay	8,239,876.62	2,348,468.03	-	-	10,588,344.65	2,814,770.71	13,403,115.36
Langley	2,141,188.00	856,995.28	-	-	2,998,183.28	1,451,789.12	4,449,972.40
Mackenzie	2,241,350.76	789,970.57	-	-	3,031,321.33	5,014,056.26	8,045,377.59
Maillardville-Coquitlam	350,734.18	652,252.82	-	-	1,002,987.00	136,369.64	1,139,356.64
Nanaimo	4,228,338.48	467,745.73	-	-	4,696,084.21	3,779,805.59	8,475,889.80
Nelson-Creston	10,422,317.35	2,311,506.24	-	5,603.00	12,739,426.59	10,990,878.39	23,730,304.98
New Westminster	224,963.31	18,480.62	554,611.20	-	798,055.13	55,124.36	853,179.49
North Island	3,141,582.57	808,380.64	-	-	3,949,963.21	6,995,574.94	10,945,538.15
North Peace River	5,152,445.09	10,400,278.92	-	-	15,552,724.01	5,126,953.17	20,679,677.18
North Vancouver-Capilano	322,243.41	-	-	-	322,243.41	296,756.32	618,999.73
North Vancouver-Seymour	660,841.97	142,208.17	-	-	803,050.14	503,077.27	1,306,127.41

ELECTORAL DISTRICTS	VOTE 197	BILL 5	BILL 7	VOTE 198	TOTAL CAPITAL	MAINTENANCE	TOTAL
	$	$	$	$	$	$	$
Okanagan North	5,198,568.96	3,306,417.03	-	-	8,504,985.99	4,482,012.57	12,986,998.56
Okanagan South	5,102,809.82	3,352,269.45	-	-	8,455,079.27	1,900,009.47	10,355,088.74
Omineca	5,205,798.50	3,490,232.99	-	-	8,696,031.49	7,960,679.32	16,656,710.81
Prince George North	5,560,609.75	3,967,931.43	-	-	9,528,541.18	2,400,207.91	11,928,749.09
Prince George South	7,168,852.31	2,657,668.03	-	-	9,826,520.34	8,583,345.31	18,409,865.65
Prince Rupert	124,448.63	696,112.43	-	-	820,561.06	2,208,077.46	3,028,638.52
Richmond	543,251.09	2,459,793.54	503,091.88	-	3,506,136.51	785,737.07	4,291,873.58
Rossland-Trail	1,915,617.27	648,410.18	-	147,397.00	2,711,424.45	2,582,599.23	5,294,023.68
Saanich and the Islands	1,603,489.08	1,045,329.08	-	-	2,648,818.16	2,313,996.11	4,962,814.27
Shuswap-Revelstoke	3,115,733.39	1,964,696.81	-	43,822,604.50	48,903,034.70	8,484,695.43	57,387,730.13
Skeena	6,232,359.45	3,567,526.99	-	-	9,799,886.44	6,005,241.15	15,805,127.59
South Peace River	8,324,134.50	4,888,631.03	-	-	13,212,765.53	5,727,559.59	18,940,325.12
Surrey	3,689,273.38	420,589.39	-	-	4,109,862.77	1,722,979.00	5,832,841.77
Vancouver Centre	5,836.00	-	-	-	5,836.00	75,241.30	81,077.30
Vancouver East	590,367.73	411,892.26	-	-	1,002,259.99	637,587.16	1,639,847.15
Vancouver-Little Mountain	-	-	-	-	-	-	NIL
Vancouver-Point Grey	1,390,351.51	1,850,169.82	-	-	3,240,521.33	262,317.79	3,502,839.12
Vancouver South	1,270.76	43,862.18	-	-	45,132.94	84,524.38	129,657.32
Victoria	552.00	-	-	-	552.00	-	552.00
West Vancouver-Howe Sound	1,062,753.63	1,337,793.20	-	-	2,400,546.83	3,217,297.31	5,617,844.14
Yale-Lillooet	12,510,240.08	10,926,200.27	-	-	23,436,440.35	9,689,640.60	33,126,080.95
Plans, design & general	22,107,436.77	3,524.56	-	-	22,110,961.33	11,385,848.05	33,496,809.38
	189,428,086.67	99,712,087.50	8,107,736.13	43,975,604.50	341,223,514.80	174,467,706.26	515,691,221.06

HEADQUARTERS

ROADS GENERALLY		
Project F-0044 - Advertising and Publicity	142,114.36	
Project M-0042 - Automatic signals, railway	291,292.54	
Project M-0055 - Avalanche control	378,010.43	
Centreline marking	4,109,997.62	
Crushing operations	6,696,517.52	
Project F-0048 - Damage claims	349,935.49	
Dock District (uncleared B.C. Ferry Corporation charges and other minor undistributed items)	1,305,800.81cr.	
Electrical maintenance generally	1,504,795.89	
Project F-0046 - Engineers-in-training	153,420.93	
Project F-0052 - Grants, engineering and dyking	58,595.19	
Guardrail manufacture and purchases	2,358,388.68	
Project H-0060 - Highway signs operation (financing)	339,113.70cr.	
Project F-0049 - Insurance re trailer moves and household effects	25,704.00	
Intra-Ministry material use credits	10,503,602.20cr.	
Project F-0041 - Leases and agreements	228,897.98	
Project M-0053 - Maintenance Management	21,411.26	
Project F-0051 - Miscellaneous	161,847.29	
Mixing operations	1,978,776.17	
Project O-0062 - Planning branch operations	476,584.21	
Project M-0054 - Sandbags and flood prevention	392,688.00	
Project M-0056 - Scenic Highway Act	2,114.00	
Project E-0068 - Street lighting and traffic signals	1,162,445.83	
Project F-0043 - Taxes and repairs	9,656.96	
Project E-0067 - Traffic branch operations	394,409.49	8,749,087.13
BRIDGES GENERALLY		
Project B-0059 - Bailey bridges	1,085,676.05	
Project B-0058 - Bridge damage	45,043.93	1,130,719.98
FERRIES GENERALLY		
Project H-0061 - Ferries generally		134,427.54
MACHINERY GENERALLY		
Project H-0064 - Autoplan insurance	351,219.29	
Intra-Ministry equipment rental credits	49,492,025.72cr.	
Project H-0063 - Machinery maintenance and operation - Headquarters	2,135,441.92	
Machinery maintenance and operation - Districts	33,410,813.68	
Project H-0066 - Machinery replacement	14,042,556.57	
Project H-0065 - Radio-telephone maintenance	923,607.66	1,371,613.40
Surveys (general capital items)		
Project L-0101 -		
Surveys generally	1,586,715.37	
Metric Conversion expenses	326.09	1,587,041.46
Roads (general capital items)		
Project C-0089 - Construction Generally 1980-81	618,368.77	
Project C-0090 - Construction Overhead 1980-81	345,338.06	
Project C-0202 - Roadside Hazard elimination, Highway safety measures	10,671.25	
Project C-0207 - Kilometre Reference Marker Project - Highway Safety Measures	1,331.24	
Project C-0209 - Highway Safety Measures-general expenses	50,609.52	

Roads (general capital items) - continued		
Project D-0004 - Roadside development, H.Q. research and general expenses.	18,658.46	
Project D-0006 - Arterial Highway beautification, Community Participation Program	12,311.84	
Project E-0003 - Signs, signals and traffic control	1,144,457.11	
Project G-0107 - Geotechnical and materials testing	7,861,390.00	
Project H-0088 - Scientific and technical equipment	362,110.19	
Project H-0112 - Radio-telephone installations - Capital	588,077.42	
Project H-0115 - Equipment and machinery - capital purchases	3,706,657.67	
Project L-0111 - Archaeological explorations	163,151.30	14,883,132.83
Bridges (general capital items)		
Project B-0022 - Steel and precast concrete stringer units, drilling, test piles, etc., for highway bridges	473,705.38	
Project B-0281 - Bridge Design & Engineering Services	1,784,470.29	
Project B-0739 - Bridge redecking, Trans Canada Highway and General Highways	1,116,296.19	3,374,472.36
Hardsurfacing (general capital items)		
Project S-0084 - Miscellaneous surface seal	144,473.01	
Project S-0085 - Miscellaneous drum mix	73,818.08	
Project S-0086 - Paving generally	849,510.71	
Project S-0087 - Surveys and investigations	1,189,988.32	2,262,790.12
Roads - Bill 5 (general capital items)		
Project G-0107 - Geotechnical and materials testing		529.29
Hardsurfacing - Bill 5 (general capital items)		
Project S-0086 - Paving generally		2,995.27
TOTAL, Headquarters		33,496,809.38

ALBERNI DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0154 - Minor Betterments 80/81			
Smith-Markham Road	4,637.60		
Special dust laying	23,623.60		
Miscellaneous road construction	20,252.04		
Lakeshore Road, ditch and widen	424.13		
Stirling Arm Drive, machine patch	6,933.20		
Beaver Creek Road, ditch and widen	11,869.40		
Somers Road, ditch and widen	6,081.25		
Tofino-Ucluelet Highway	18,020.78	91,842.00	
Project C-0194 - Bamfield Road		61,193.24	
Project D-0011 - Taylor River rest area, installation		13,859.60	166,894.84
Day Labour - Bill 5 - Roads -			
Project C-0194 - Bamfield Road, gravel and pave 4.7 Km		39,662.41	
Project M-0397 - Guardrail installation program 80/81		12,919.54	
Project C-0542 - Beaver Creek Road 1, construct and pave		111,432.41	
Project C-0543 - Arterial Highway 547R, Alberni-Tofino Highway, pave and shouldering		30,062.26	
Project C-0544 - Highway 4 Alberni-Tofino Highway, widen and install guardrail		59,080.15	
Project C-0667 - Highway 4 Taylor River to Ucluelet, construction of passing lanes		210,934.61	464,091.38
Day Labour - Bill 5 - Bridges -			
Project B-0334 - Deer Creek Bridge 7878			7,706.03
Maintenance of roads			1,597,083.67
Snow removal			187,362.00
Maintenance of bridges			139,013.56
Maintenance and operation of ferries -			
Barkley Sound Ferry			74,000.00
Surveys generally - Project L-0101 -			
Highway 4, Tebo Road to Cherry Creek Road		39,915.85	
Minor road surveys		15,874.05	55,789.90
Legal Surveys - Project L-0099 -			
Chatsworth Road through Lot A Plan 33469 Lots 6 and 7 Plan 1891 D.L.9 Plan 1891 and Lots 12 and 13. District Lots 9 and 10 Cameron District		1,224.79	
Establishing and closing Beaver Creek Road through District Lot 79 Alberni District		2,078.55	
Explanatory Plan for drainage easement through Lot 2 Plan 3468 D.L. 107 Alberni District, drawing A-30		92.00	
Service Road through parts of Lots 5, 6 & 7 D.L.90 Alberni District Plan 1486		2,046.13	5,441.47
Rights-of-way - Project P-0113 -			
Bamfield Road			16,135.00

ALBERNI DISTRICT - continued

	$	$
Rights-of-way - Bill 5 - Project P-0113 -		
Beaver Creek Road (Deep Creek) Bridge approaches	72,683.87	
Compton Road-Beaver Creek Road to Margaret Street	9,586.08	
Cottam Road	2,139.50	
Gravel Pits	2.00	
Highway 4 Great Central Lake Junction to Sproat River Bridge	1,033.00	
Moore Road	251.00	85,695.45
Construction -		
Roads - Project C-3989 - Forest Road, Port Alberni to Cumberland Road. (see also Comox)		2,117.46
Roads - Bill 5 - Project C-3989 - Forest Road, Port Alberni to Cumberland Road (see also Comox)		662.52
Signals, lighting etc. - Project E-0103 - Signal installation, Route 4 at Victoria Quay/River Road, Port Alberni.		24,926.00
Surfacing - Bill 5 - Project S-6328 - Redford Street, Highway 4 Port Alberni from 3rd Avenue to San Mateo Drive, storm sewer, curb and gutter, paving (.89 km)		2,156.00
Total, Alberni District		2,829,075.28

ATLIN DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0147 - Minor Betterments 80/81		23,255.62	
Project C-0149 - Minor Betterments 80/81			
Dease Lake roads	53,836.60		
Miscellaneous	141,989.73	195,826.33	
Project C-0174 - Highway 37 and 37A Surprise Creek to Nass River, reconstruction 27 km		374,433.97	
Project C-0175 - Highway 37A bridge approach construction		244,349.06	
Project C-0177 - Highway 37, Third North Fork to Good Hope Lake, reconstruction 12 km		300,383.15	
Project C-0178 - Highway 37, gravelling, strengthening and improve drainage, various sections		285,880.83	1,424,128.96
Day Labour - Bill 5 - Roads -			
Project C-0174 - Highway 37 and 37A Surprise Creek to Nass River, reconstruction 27 km		1,361,666.91	
Project C-0177 - Highway 37, Third North Fork to Good Hope Lake, reconstruction 12 km		878,870.92	
Project C-0178 - Highway 37, gravelling, strengthening and improve drainage, various sections		316,430.28	
Project C-0499 - Atlin Highway, 30 Mile Hill revisions, reconstruct 1 km		92,564.84	
Project C-0616 - Highway 37A, washout south Argyle Creek		49,999.94	
Project C-0658 - Bear River Bridge detour construction		195,000.50	
Project C-0661 - Highway 37, Sawmill Point, fill failure repair		151,377.06	
Project N-0390 - Guardrail installation program 80/81		32,000.00	
Project N-0394 - Guardrail installation program 80/81		8,371.00	3,086,281.45
Day Labour - Bill 5 - Bridges -			
Project B-0326 - Tatsho Creek Bridge, replacement		31,305.19	
Project B-0659 - Thomas Creek Bridge, repairs		27,706.75	
Project B-0660 - Quartz Creek Bridge, replacement		43,634.37	102,646.31
Maintenance of roads			3,266,005.22
Snow removal			1,314,217.73
Maintenance of bridges			165,241.35
Surveys generally - Project L-0101 -			
Aiyansh Junction - Greenville		198,196.43	
Cassiar Junction, Alaska Highway Junction		239.80	
Highway 37, Blue River to Yukon Boundary		377.00	
Kitwanga-Meziadin Lake Highway Kitwanga Bridge site and Meziadin Lake (Fisheries Road)		5,255.85	
Miscellaneous, Dease Lake to Atlin		255.00	
Stewart to Cassiar site plans for miscellaneous bridges on Stewart-Cassiar Highway		10,592.70	214,916.78

ATLIN DISTRICT - continued

	$	$
Rights-of-way - Bill 5 - Project P-0113 - Stewart-Cassiar Highway		1,996.00
Construction -		
Roads -		
Project C-2702 - Cassiar Highway, construction Nass River Bridge South to D.L.3411.	183,703.41	
Project C-3321 - Highway 37, Derrick Creek to D.L.3411.	36,465.77	
Project C-3913 - Cassiar Highway 37 construction D.L.1879 to Cranberry Bridge inventory miles 28.94 to 41.33, subdivision 3710, Sta.1462+00 to Sta. 2064+30 (11.41 miles).	3,345,957.02	3,566,126.20
Bridges - Bill 5 - Project B-0557 - Stewart-Cassiar Highway 37A, Bear River Bridge 409.		1,388,949.34
Surfacing -		
Project S-5101 - Stewart to Surprise Creek Section on the Stewart to Meziadin Lake Road, Prince Rupert Highway District.	3,053,280.82	
Project S-5102 - Highway 37, Derrick Creek to Nass River (62.0 km).	68,957.38	3,122,238.20
Surfacing - Bill 5 - Project S-5102 - Highway 37, Derrick Creek to Nass River (62.0 km).		2,110,603.39
Total, Atlin District		19,763,350.93

BOUNDARY-SIMILKAMEEN DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0018 - 30 North Fork, reconstruct and pave		299,530.55	
Project C-0019 - 28 Gilpin Road, reconstruct and pave		25,000.00	
Project C-0126 - Minor Betterments 80/81		203,074.53	
Project C-0130 - Minor Betterments 80/81		8,818.25	
Project C-0133 - Minor Betterments 80/81		202,639.55	
Project C-0268 - McLean Creek Road, construction		74,960.98	
Project C-0277 - Greenwood area sundry roads, seal coat 38 km		80,000.00	
Project C-3660 - Highway 97, Kruger Hill, truck lane construction		124,925.97	
Project C-3666 - Highway 33, Rock Creek, reconstruct and pave		49,999.15	
Project C-4165 - Highway 97, Westbank-Summerland, improvements		39,999.33	
Project V-0701 - Secondary Highway 264B, 89th Street and 64th Avenue, Village of Osoyoos		43,174.10	1,152,122.41
Day Labour - Bill 5 - Roads -			
Project C-0268 - McLean Creek Road, construction		29,984.16*	
Project C-0472 - Princeton area roads, miscellaneous upgrading		9,961.13	
Project C-0473 - Keremeos area roads, miscellaneous upgrading		79,991.25	
Project C-0474 - Oliver area roads, miscellaneous upgrading		39,821.25	
Project C-0475 - Princeton-Summerland Road, construction		149,923.10	
Project C-0636 - Highway 33, pavement recycling		45,000.00	
Project C-3660 - Highway 97, Kruger Hill, truck lane construction		99,989.71	
Project C-3666 - Highway 33, Rock Creek, reconstruct and pave		185,000.00	
Project C-4165 - Highway 97, Westbank-Summerland, improvements		49,754.04	
Project N-0376 - Guardrail installation program 80/81		67,987.31	
Project N-0377 - Guardrail installation program 80/81		199,981.84	
Project N-0383 - Guardrail installation program 80/81		149,126.84	
Project W-0348 - Fencing Schedule 2 Highways		60,300.25	
Project W-0352 - Fencing Schedule 2 Highways		40,000.00	
Project W-0552 - Black Mine Road, fencing D.L.985 and 987		25,973.00	
Project W-0571 - Fencing and livestock crossings, Schedule 2 Highways, Highway 3, Osoyoos-Bridesville		14,993.60	1,247,787.48

BOUNDARY-SIMILKAMEEN - continued

	$	$
Day Labour - Bill 5 - Bridges -		
Project B-0315 - Hummingbird Bridge 6408	39,558.69	
Project B-0703 - Hayes Bridge 6143	16,993.39	
Project B-0704 - Naramata Bridge 6115, elimination	17,992.45	
Project B-0750 - Fiva Creek Bridge	18,000.00	
Project B-1394 - South Keremeos Bridge 2, installation of Bailey Bridge after fire damage	59,313.00	151,857.53
Maintenance of roads		3,837,088.69
Snow removal		1,068,923.36
Maintenance of bridges		227,175.66
Surveys generally - Project L-0101 -		
Minor road surveys	54,453.23	
Nine Mile Creek to Johnstone Creek	811.88	
Penticton Channel Parkway	320,705.67	
Penticton, Main Street curb and gutter	1,468.73	
Southern Trans Provincial Highway, Hedley to Keremeos	19,012.45	396,451.96
Legal surveys - Project L-0099 -		
E.Bdy. Indian Reserve 9 (Alexis Creek) to E. Bdy. L565	2,280.25	
Gilpin Road through part of D.L.499 715 Kootenay District	7,941.84	
Granby Road 32-S. Boundary Lot 2700 to N. Boundary Lot 3233 Similkameen Division Yale District	4,706.67	
McIntyre Creek Road 101 through part of D.L.2701 and unsurveyed Crown Land Similkameen Division Yale District	601.02	
Penticton Channel Parkway Sec.11 through former Penticton Indian Reserve 1 Highway 97	2,940.11	
Southern Trans Provincial Highway 3 Hedley to Keremeos Section N. Bdy. L294 to S. Bdy. L3207 2.9 km	8,740.00	
Southern Trans Provincial Highway 3 in part of D.L.1822 Similkameen Division Yale District. District drawing D24-3-1 R/W	2,018.00	
South Keremeos Road 93-1-through pclA of Lots 1 & 2 Plan B7344 Lot 3 and Residue of Lot 2 Plan 494 all in D.L.458 and Lot A Plan B5992 D.L.1477S	1,499.88	30,727.77
Rights-of-way - Project P-0113 -		
Blythe-Rhone Road 118	10,500.00	
Bridge 2 (631), Road 57-6	2,896.80	
Bubar Road 113	11,832.00	
Copper Mountain Road	500.00	
Highway 3A, Kaleden Junction to Twin Lakes Junction	38.22	
Kettle River	792.00	
Martin Street - Main Street Reconstruction - Penticton	11.15	

BOUNDARY-SIMILKAMEEN DISTRICT - continued

	$	$	$
Rights-of-way - Project P-0113 - continued			
McLean Creek Road		221.00	
Penticton Channel Parkway		43,700.00	
Rock Creek - Kelowna Highway 33		7,881.40	
Southern Trans Provincial Highway 3, Copper Mountain		6,800.00	85,172.57
Rights-of-way - Bill 5 - Project P-0113 -			
Apex Mountain Road		1.00	
Bridge 2 (631), Road 57-6		3,500.00	
Copper Mountain Road		2.00	
Danville Highway 41		2,605.74	
Fairview to White Lake Road		4,375.00	
Gravel Pits		2,958.00	
Highway 3A, Kaleden Junction to Twin Lakes Junction		11,814.00	
Highway 97-Okanagan Falls		984.37	
Kelly Road 211		360.00	
Kettle River Main Road 43		1.00	
Martin Street-Main Street, reconstruction-Penticton		6,974.92	
Okanagan Highway 97 at Oliver		330,075.00	
Penticton Channel Parkway		258,913.11	
Princeton-Merritt Highway		1.00	
Princeton-Summerland Road 40		1.00	
Road widening Highway 5, D.L.1185		1.00	
Second Street and Lily Road-Naramata		1.00	
Son Ranch Road 209 and Dondale Road 210		3,093.00	
Spencer Hill extension		6,315.50	
Southern Trans Provincial Highway 3, Copper Mountain		160,000.00	
Southern Trans Provincial Highway 3, Richter Pass Section		1.00	791,977.64
Construction -			
Roads -			
Project C-2315 - D.L.3229 Spencer Hill section, reconstruction.		28,553.65	
Project C-3033 - Okanagan Highway 97, Penticton Channel Parkway.		35,392.68	63,946.33
Signals, lighting etc. -			
Project E-0036 - Traffic signal and lighting installation, Route 3A/97 at 7th Street, Oliver.		23,269.76	
Project E-0607 - Signal and lighting installation, Route 97 at Green & Brandon Avenue, Penticton		46,491.51	69,761.27
Bridges - Project - B-1140 - Ellis Creek Bridge 2635 and Skaha Lake Bridge 1342, Okanagan Highway Fairview Road Bridge 1344, Fairview Road improvement			32,682.84
Bridges - Bill 5 -			
Project B-0417 - Rock Creek Canyon Bridge 1330 Highway 3, cleaning and galvanizing bridge fence panels.		14,239.82	
Project B-0573 - Westbridge Bridge 2619, Rock Creek-Kelowna Highway 33.		13,980.78	28,220.60

BOUNDAY-SIMILKAMEEN - continued

	$	$	$
Surfacing -			
Project S-0084 - Miscellaneous surface seal			
Grand Forks: Christina Lake area, Road graded seal	73,327.19		
Grand Forks-Christina Lake area(DBLCT)	121,601.87		
Grand Forks-Grand Forks miscellaneous roads	123,719.38		
Road graded seal: Christina Lake-Paulson Bridge	47,613.10		
Road graded seal: Greenwood area, 21 kms	71,663.13		
Road graded seal: Highway 3 Paulson Bridge, 15 km southward	78,380.81		
Road graded seal: miscellaneous roads Keremeos and Cawston areas	64.24		
Road graded seal: miscellaneous roads Okanagan Falls, Oliver and Osoyoos areas	431,771.26		
Road chip seal: Penticton; Princeton-Sterling Creek Bridge (38 km)	1,162.54	949,303.52	
Project S-0085 - Miscellaneous drum mix			
Copper Mountain Road (Penticton)	385,446.82		
Grand Forks-North Fork (14.4 km)	432,631.63	818,078.45	
Project S-2402 - Southern Trans-Provincial Highway 3, Sterling Creek Bridge to Keremeos (24.7 km).		1,912,087.90	
Project S-2918 - Highway 33 and Big White Road (22.45 km)(see also Okanagan South)		625.67	3,680,095.54
Total, Boundary-Similkameen District			12,863,991.65

BURNABY-EDMONDS DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81, miscellaneous		23,340.75	
Project D-0007 - Roadside development, rest area upgrading, general - Region 1		34,000.00	
Project D-0008 - Highway beautification, general - Region 1		34,000.00	
Project V-0721 - Secondary Highway 22B, Marine Drive, District of Burnaby		45,474.80	
Project V-0741 - Secondary Highway 14B, North Road (West half), District of Burnaby		1,208.12	138,023.67
Day Labour - Bill 5 - Bridges -			
Project B-0301 - Sprott Street Underpass 1672			15,276.51
Maintenance of roads			1,888,378.03
Snow removal			17,078.45
Maintenance of bridges			593,254.71
Surveys generally - Project L-0101 -			
Aerial mapping, survey and design Byrne-Queensborough 4 lane (see also New Westminster)		5,609.48	
From Edmonds Street to 10th Avenue for new curb and gutter construction		37,918.70	43,528.18
Rights-of-way - Project P-0113 - Cariboo Road Connector			560.00
Construction -			
Signals, lighting etc. - Project E-0638 - Lighting installation, Marine Way at Boundary Road and Greenall Avenue, Burnaby			8,719.00
Total, Burnaby-Edmonds District			2,704,818.55

BURNABY NORTH DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81,			
Gaglardi Way, crack repair	107,962.70		
Miscellaneous	23,569.98	131,532.68	
Project C-0122 - Minor Betterments 80/81,			
miscellaneous		303.47	
Project V-0741 - Secondary Highway 14B,			
North Road (West half), District of			
Burnaby		1,208.12	133,044.27
Maintenance of roads			153,450.69
Snow removal			9,459.33
Maintenance of bridges			1,587.46
Surveys generally - Project L-0101 -			
Barnet Highway, from Sperling Avenue to			
Clark Road (see also Coquitlam-Moody)		44,403.45	
Simon Fraser University access road		2,965.88	47,369.33
Legal surveys - Project L-0099 - Broadway			
Avenue and Gaglardi Way, District			
Lot 15 group 1 New Westminster District			3,101.52
Construction -			
Signals, lighting etc. - Project E-0574 -			
Signal and lighting revision, Route 7			
at Gilmore Avenue, Burnaby			2,274.80
Total, Burnaby North District			350,287.40

BURNABY-WILLINGDON DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81, miscellaneous		10,982.34	
Project V-0721 - Secondary Highway 22B, Marine Drive, District of Burnaby		45,474.80	56,457.14
Day Labour - Bill 5 - Roads -			
Project N-0370 - Guardrail installation program 80/81			22,500.00
Maintenance of roads			133,509.17
Snow removal			8,200.24
Maintenance of bridges			19,825.65
Rights-of-way - Project P-0113 -			
Marine Way, Boundary Road to Byrne		100,137.58	
Marine Way, Byrne to Queensborough Bridge		85,101.38	185,238.96
Rights-of-way - Bill 5 - Project P-0113 -			
Canada Way and Burris Street		13,023.00	
Marine Way Boundary Road to Byrne Road		750.00	
Marine Way-Byrne to Queensborough Bridge		2,607.07	16,380.07
Construction -			
Roads - Project C-3997 - Boundary Road to Byrne Road, Marine Way.			1,921,581.57
Roadside development - Project D-4518 - Landscape development Highway 1, *interchanges Willingdon Avenue to* Cariboo Road.			60,538.21
Total, Burnaby-Willingdon District			2,424,231.01

CARIBOO DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0128 - Minor Betterments 80/81, 16 Mile subdivision; gravelling	3,600.00		
Loon Lake Road; road base repair, gravel	18,500.00	22,100.00	
Project C-0129 - Minor Betterments 80/81		108,212.83	
Project C-0141 - Minor Betterments 80/81, miscellaneous		367,139.00	
Project C-0146 - Minor Betterments 80/81, miscellaneous		372,129.36	
Project C-0159 - Milburn Lake Road, prepare for paving		49,982.11	
Project C-0160 - Rawlings Road base prepare for paving		199,710.79	
Project C-0161 - Highway 97, Two Mile Flat, construct and prepare for paving		156,197.33	
Project C-0162 - Cottonwood River Bridge, construct approaches		589,452.19	
Project C-0172 - Horsefly Road, reconstruction		50,000.00	
Project C-0173 - Miscellaneous roads in the Williams Lake Highway District, prepare for paving		127,102.86	
Project C-0271 - Pre-engineering surveys		6,387.32	
Project C-0272 - Canim Lake Road and Hendrix Lake Road, prepare for paving		206,292.37	
Project C-0273 - Lac La Hache Road, prepare for paving		141,054.84	
Project C-0275 - Highway 97, Cariboo Highway, Williams Lake to Mountain House Road, intersection improvements		139,487.28	
Project C-4240 - Dog Creek Road No.137, relocation		100,000.00	
Project C-4243 - Chilcotin-Bella Coola Highway 20, relocate and construct at Bayliffe		800,000.00	
Project C-4244 - Miscellaneous school bus and farm roads in the Williams Lake Highway District, reconstruct and gravel		91,790.33	
Project C-4487 - 83 Mile to Green Lake Road, gravelling, preparation for paving		184,463.60	
Project C-4499 - Likely Road, improve sight distance and minor corner removal, km 55 to km 65		50,000.00	
Project D-0100 - Hydroseeding highway right-of-way, Highway 20 Anahim Lake to Williams Lake		170,085.49	
Project D-0568 - McLeese Lake Rest Area, Highway 97, 76 km south of Quesnel, portable washroom building		18,955.00	
Project D-0569 - Australian Rest Area, Highway 97, 36 km south of Quesnel, portable washroom building		14,215.00	3,964,757.70

CARIBOO DISTRICT - continued

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Day Labour - Bill 5 - Roads -			
Project C-0161 -Highway 97, Two Mile Flat, construct and prepare for paving		360,057.10	
Project C-0172 - Horsefly Road, reconstruction		373,659.60	
Project C-0272 - Canim Lake Road and Hendrix Lake Road, prepare for paving		664,809.45	
Project C-0439 - Dragon Lake Road and area, construct and gravel		227,036.36	
Project C-0440 - Dale Lake Frontage, construct and gravel		18,029.40	
Project C-0441 - Nazko and Blackwater, gravel		186,928.54	
Project C-0442 - Fraser Road, construct and gravel		201,626.30	
Project C-0443 - Student summer employment program		102,421.24	
Project C-0444 - Quesnel Arterial		2,971.64	
Project C-0445 - Miscellaneous school bus routes, reshape, gravel		275,895.20	
Project C-0480 - Bradley Creek Road, reconstruction		61,714.16	
Project C-0481 - 100 Mile House, curb and gutter		64,782.97	
Project C-0521 - Highway 26, McLarry, approaches		392,487.12	
Project C-0528 - Chimney Lake road, reconstruction		49,370.76	
Project C-0530 - Highway 20, regravel and stabilize various sections		184,130.73	
Project C-0531 - Spokin Lake Road, reconstruction		160,372.45	
Project C-0532 - Highway 97, Williams Lake South, landscape and repairs		126,346.27	
Project C-0533 - Highway 20, Bella Coola, complete construction		38,672.94	
Project C-0534 - Student summer employment program		48,105.43	
Project C-0535 - Highway 97, left turn slots		45,321.56	
Project C-0580 - Canim Lake Road at Eagle Creek		576,600.44	
Project C-0608 - Green Lake area roads, paving		48,123.37	
Project C-0630 - Pavillion to Clinton Road, gravelling		32,119.03	
Project C-0655 - Gravel Barr Hill section, km 186 to km 199		57,028.55	
Project C-4176 - Highway 24, Bridge Lake to Little Fort		150,490.26	
Project C-4186 - Highway 97 Alix, installation of culvert pipe		51,543.84	
Project C-4240 - Dog Creek Road No.137, relocation		170,803.55	
Project C-4243 - Chilcotin-Bella Coola, Highway 20, relocate and reconstruct at Bayliffe		1,020,209.46	
Project C-4244 - Miscellaneous school bus and farm roads in the Williams Lake Highway District, reconstruct and gravel		199,299.60	
Project C-4245 - Dean River Road, reconstruct and gravel		63,157.71	

CARIBOO DISTRICT - continued

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Day Labour - Bill 5 - Roads - continued		
Project C-4452 - Chazacut Road, reconstruction	52,560.64	
Project C-4460 - Quesnel Hydraulic, reconstruct	215,538.28	
Project C-4487 - 83 Mile to Green Lake Road, gravelling, paving	246,966.00	
Project C-4499 - Likely Road, improve sight distance and minor corner removal, km 55 to km 65	525,883.45	
Project N-0380 - Guardrail installation program, 80/81	79,385.22	
Project N-0430 - Guardrail installation program 80/81	15,145.28	
Project N-0435 - Guardrail installation program 80/81	42,666.16	
Project W-0351 - Fencing Schedule 2 Highways	88,188.36	
Project W-0357 - Fencing Schedule 2 Highways	117,521.45	
Project W-0362 - Fencing Schedule 2 Highways	127,409.28	
Project W-0482 - Fencing and livestock crossings, Schedule 2 Highways, Highway 97 at 100 Mile House, machinery underpass, construction	125,060.45	7,590,439.60
Day Labour - Bill 5 - Bridges -		
Project B-0309 - McKinley Bridge 7505	21,838.44	
Project B-0310 - Bradley Bridge 7428	18,411.09	
Project B-0320 - Hatchery Bridge 7469	141,889.13	
Project B-0321 - Narcosli Bridge reconstruct	169,852.92	
Project B-0606 - Swan Bridge, reconstruct	45,011.11	
Project B-1370 - Eagle Creek Bridge, construction	108,844.26	505,846.95
Maintenance of roads		9,825,690.27
Snow removal		2,506,584.78
Maintenance of bridges		505,947.23
Maintenance and operation of ferries		
Big Bar Ferry	53,040.27	
Marguerite Ferry	123,764.31	176,804.58
Surveys generally - Project L-0101 -		
Cariboo Highway 97 Cache Creek-Loon Lake Road	8,302.40	
Cariboo Highway 97, 92 Mile House to 83 Mile House	4,030.00	
Chilcotin miscellaneous	68.10	
Little Fort-Lac Des Roches (see also Kamloops)	13,589.70	
100 Mile House, curb & gutter	682.00	
150 Mile House, curve realignment	4,586.43	
Minor road surveys	35,032.99	
Miscellaneous from Young Creek to Bella Coola	46.05	
North Star Interchange Quesnel	10,931.47	
Quesnel Bypass	17,598.95	
Quesnel Highway 97, 2 Mile Flats	8,568.92	
Quesnel Truck Route, Davie Street Bridge	609.00	
S. Arch-Fox Mountain Road, Williams Lake, Highway 97	2,766.50	
Williams Lake Fox Mountain Road	84,229.41	191,041.92

CARIBOO DISTRICT - continued

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Legal surveys - Project L-0099 -		
Bella Coola, Chilcotin Highway 20 through Township 54 Lillooet District, 12 km	16,581.33	
Cariboo Highway Right-of-way Lac La Hache Williams Lake section	93.03	
Fraser Road 32 in N 1/2 of D.L.7278 Cariboo	1,813.00	
Fraser Road 32, S. Bdy. D.L.6110 to N. Bdy. D.L.6121 Cariboo District 2.9 km	5,283.58	
Fraser Road 32, S. Bdy. L6114 to N. Bdy. 6117	12,899.06	
Highway 97 D.L.4411 to E. Bdy. D.L. 6190 Cariboo District (Quesnel)	6,554.50	
Jewell Gravel Pits, S/D Plan of Block A, Plan 6595 Block A of D.D.257906F & Part Lot 1 Plan 29703 all of N.E.1/4 D.L.2954 Lillooet District	1,775.57	
Johnson Road, Stat. Right-of-way Plan for Highway in D.L.'s 3963, 3964, 3954 & 4518	4,523.10	
Likely Road 115 through D.L.'s 170 & 8126 Cariboo District	1,780.04	
Likely Road 115, S. Bdy. L8125 to N. Bdy. L9553 Cariboo District	1,709.24	
McLean Road through D.L.6489 Cariboo 2.6 km	5,231.00	
93 Mile-Little Fort Highway 24 E. Bdy. D.L.4275 to S. Bdy. D.L.1890 Cariboo District	8,678.28	
Panorama Drive Right-of-way widening in lot 13 Plan 14868 D.L.8829 Cariboo District	235.42	
Plan of drainage easement through Lot 4 Plan 7825 and Lot A Plan 18850 D.L.346 Cariboo	608.74	
Reference Plan of consolidation of closed road except that part lying east of Cariboo Highway as shown on Plan H241	456.30	
Ross Road through District Lot 5055 Cariboo	961.70	
Statutory R/W Dog Creek Road in parts of D.L.8836 7047 and 8839 Cariboo	1,897.81	
Survey for Statutory Right-of-way through part of Lot 11, D.L.6678 Cariboo District Plan 6041	1,101.00	72,182.70
Rights-of-way - Project P-0113 -		
Barkerville Highway 26, Mitchell Bridge Elimination	94,200.00	
Cache Creek - Clinton Truck Lanes	1,850.00	
Canim Lake South Road 729	3,039.33	
Cariboo Highway 97, Rowat Road to Goyette Road	2,785.34	
Cariboo Highway 97, Two Mile Flat, Quesnel	1,306.77	
Exeter Truck Route 555	1,130.00	
Forest Grove-Canim Lake Road	502.00	
Highway 24 - 93 mile to Little Fort	10,605.50	
Maple Drive	2,400.00	
McKinley - Ogden Road 364	864.14	
189 Milburn Lake Road	32.00	
83 Mile Road 368	4,243.00	
Rawlings Road 197	3,050.50	126,008.58

CARIBOO DISTRICT - continued

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Rights-of-way - Bill 5 - Project P-0113 -		
Balsam Avenue	582.00	
Barkerville Highway 26 at Cottonwood	323.70	
Barkerville Highway 26 Mitchell Bridge elimination	41,226.27	
Boyko Road 914	2,975.00	
Campsite Road 841	1,351.00	
Canim Lake South Road 729	9,548.68	
Cariboo Highway 97	62,721.00	
Cariboo Highway Arterial Front Street & Carson Avenue	1,700.00	
Cariboo Highway, North Star Road Interchange	220,901.00	
Cariboo Highway 97-Rowat Road to Goyette Road	31,455.58	
Cariboo Highway 97, Two Mile Flat, Quesnel	183,873.57	
Chilcotin Bella Coola Highway 20	7,403.75	
337 Davon Road	981.50	
Dog Creek Road 137	900.00	
Douglas Drive 823	1.00	
Eagle Creek Road 332	250.00	
Egan Lake Road 551	7,694.46	
Ernst Road 834	3.00	
Favre Road 767, Bjornson Road 177 and Clouston Road	1,981.00	
Ferguson Road 668	7,905.77	
Forest Grove-Canim Lake Road	25,331.37	
Forest Grove Frontage Road	5,560.00	
Fox Mountain Road 381	940.00	
Frontage Road-Cariboo Highway 97	1.00	
Gasoff Road 62	1.00	
Gravel Pits	5,386.50	
548 Hatchery Road	6,703.20	
Horsefly Road 419	2,837.00	
Houseman Road 346	1.00	
Huston Road 1111	2,833.23	
Highway 24-93 Mile to Little Fort	19,322.27	
105 Keithley Creek Road	19,824.00	
Likely Road 115	1,890.00	
Long Road 234	1.00	
Loon Lake Road 128	20,430.00	
Mackenzie Avenue curb & gutter	21,732.00	
Maple Drive	5,160.00	
Marsh Road 227	5,810.00	
McKinley-Ogden Road 364	57,800.00	
189 Milburn Lake Road	1,140.00	
108 Mile-Horsefly Road 375	2,205.75	
North Bonaparte Road 386	600.00	
Park Drive Road 1057	6,000.00	
Pinnacles Road 38	248.50	
Pioneer Road 739	340.20	
Quesnel-Hydraulics Road 60	200.00	
Racing Road 641	1.00	
Rau Road 103	100.00	
Rawlings Road 197	1,161.00	
Right-of-way, Parcel Z, Plan 6422 Cariboo Highway 97	1,750.00	
Spokin Lake Road 398	2,960.00	
Thorley Road 179	709.00	
Tremblay Road 119	280.00	
Weldon Road	1.00	
Western Plywood Road 22	5,170.00	
Westland Road 639	1.00	
Wiggins Road 1145	1.00	
410 Wilcox Road	210.00	
Williams Lake Arterial Highway 97	5,820.00	814,240.30

CARIBOO DISTRICT - continued

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Construction -		
Roads -		
Project C-3479 - Morehead Lake Spillway, design and reconstruct.	20,648.16	
Project C-4156 - Barkerville Highway 26, reconstruction, Mitchell Bridge elimination.	1,953,891.90	1,974,540.06
Highway Safety - Project C-0204 -		
Footpath construction, Broadway South Road, Williams Lake	6,884.00	
Footpath construction, Dog Creek Road, Williams Lake	12,488.00	
Shoulder widening on Gook Road, Quesnel South	5,996.00	
Shoulder widening, Maple Drive	28,965.00	
Shoulder widening, Quesnel, Canyon Road, Francois Road, Quesnel North	16,102.00	
Shoulder widening on Route 97, Hixon	2,902.00	
Widen east shoulder of Glendale Drive, from Pine Street to school, Williams Lake	26,328.00	99,665.00
Roadside development - Project D-4453 - Roadside development, 108 Mile Rest Area.		67,776.66
Signals, lighting etc. -		
Project E-0289 - Lighting installation Route 97 at Canim Lake Road, 100 Mile House	7,646.65	
Project E-0578 - Lighting installation, miscellanoeus locations, Williams Lake area.	51,112.00	
Project E-0601 - Signal and lignting installation, Route 97 at Horse Lake Road and 5th Street, 100 Mile House	19,615.47	
Project E-0619 - Signal and lighting installation, Route 97, Rome Avenue to Route 26, Quesnel.	40,681.50	
Project E-7922 - Flashing beacon and lighting replacement, Route 97 at Hydraulic Road, Quesnel.	10,552.00	
Project E-7966 - Signal revision Marsh Drive at Malcolm Street, Quesnel.	630.60	
Project E-7985 - Signal installation Route 97, Front Street at Carson, Quesnel.	7,459.00	137,697.22
Bridges - Project B-1346 - Duncan Wagon Bridge 611, Rudy Johnson Bridge 2695 and Chemainus River Bridge 1298, modifications to portal bracing. (see also Cowichan-Malahat)		1,949.42
Bridges - Bill 5 -		
Project B-0001 - McLarry Bridge 516, Barkerville Highway.	504,466.45	
Project B-0536 - Davie Street Pedestrian Overpass 2743, Quesnel.	218,795.02	723,261.47
Ferries - Project H-1330 - Marguerite Ferry, Re-action Ferry, pontoon lengthening		23,200.13

CARIBOO DISTRICT - continued

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Surfacing -			
Project S-0084 - Miscellaneous surface seal			
100 Mile, "N" Bonaparte River Bridge (Loon Lake Road area) to "N" Clinton (38 km)	99,783.65		
Shoulder/road seal grade Lac La Hache-Hinche Road	295.84	100,079.49	
Project S-0085 - Miscellaneous drum mix			
100 Mile; Highway 83 Green Lake Road (15.8 km)	287,513.00		
100 Mile; Lac La Hache area(11.5 km)	322,508.25		
100 Mile; Highway 83 Watch Lake Road (13.6 km)	388,168.83	998,190.08	
Project S-0278 - Highway 97, "Two mile Flat", Quesnel, curb and gutter.		12,733.85	
Project S-2701 - Canim Lake Road and Lone Butte-Horse Lake Road (52.46 km).		2,640,419.13	
Project S-2702 - Aggregate in stockpile - Highway 97 North Bonaparte River Bridge, B.C.R. Underpass.		60,057.89	
Project S-4702 - Cariboo Highway 97, Hinsche Road to Highway 20 junction at Williams Lake Section, frontage roads and south truck route (33.0 km)		796.08	
Project S-4706 - Town of Williams Lake and Cariboo Highway 97, Section A.- Toop Road to South Truck Route, storm sewer and curb and gutter; Section B.- Highway 97 paving (29.3 km).		3,097,948.05	6,910,224.57
Surfacing - Bill 5 -			
Project S-0278 - Highway 97, "Two Mile Flat" Quesnel, curb and gutter.		1,210,448.19	
Project S-0644 - Williams Lake-Horsefly and Likely areas.		89,986.91	1,300,435.10
Total, Cariboo District			37,518,294.24

CENTRAL FRASER VALLEY DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0120 - Minor Betterments 80/81, miscellaneous		31,723.00	
Project C-0122 - Minor Betterments 80/81, miscellaneous		3,808.44	35,531.44
Day Labour - Bill 5 - Roads -			
Project C-0682 - Highway No.11 at Marshall Road, intersection revision			75,000.00
Maintenance of roads			483,873.83
Snow removal			49,210.00
Maintenance of bridges			36,819.61
Surveys generally - Project L-0101 -			
Highway 11, Abbotsford-Mission mapping (see also Dewdney)		17.11	
Highway 401, Peardonville Overhead approach		157.00	
Miscellaneous "C" Street Interchange to Lougheed Mission		267.50	441.61
Construction -			
Roads - Project C-2598 - Huntingdon to Mission Highway, C.P.-C.N. Crossing to Harris Road (1.14 miles)			8,110.55
Roadside Development -			
Project D-3714 - Roadside development, tourist information centre and rest area (Bradner Road).		107,689.12	
Project D-3716 - Roadside development, tourist information centre and rest area, Cole Road, Trans Canada Highway, Abbotsford.		77,324.88	185,014.00
Signals, lighting etc. - Project E-0285 - Temporary Signal installation, Route 11 at Marshall Road, Abbotsford			2,485.97
Bridges - Project B-1249 - Matsqui Slough Bridge 2578, Matsqui Slough Overhead 2443 and Hougen Bridge (private access road) 2703, Huntingdon, Mission Highway,			11,898.16
Total, Central Fraser Valley District			888,385.17

CHILLIWACK DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0120 - Minor Betterments 80/81, miscellaneous		148,785.85	
Project C-0122 - Minor Betterments 80/81, miscellaneous		16,950.64	
Project C-0156 - Hemlock Valley Road, widen gravel, and drainage		50,000.00	
Project V-0779 - Secondary Highway 62B, Sardis Road, District of Chilliwack, Keith Wilson Road to Vedder Bridge, pave shoulders		6,500.00	
Project V-0780 - Secondary Highway 277B, Vedder Mountain Road, Yarrow, District of Chilliwack, Boundary Road and Yarrow Central Road, reconstruction		100,000.00	
Project V-0781 - Secondary Highway 281B, First Avenue/Broadway, District of Chilliwack, base improvements and traffic signal installation		72,500.00	
Project V-0782 - Secondary Highway 280B, Yale Road West and Young Road South, pave		21,500.00	416,236.49
Day Labour - Bill 5 - Roads -			
Project C-0156 - Hemlock Valley Road, widen, gravel and drainage		150,000.00	
Project C-0597 - Highway 7, construction of acceleration-deceleration lanes, at Skawahlook I.R.1 and Ruby Creek I.R.2		32,000.00	
Project C-0683 - Rockwell Drive, clearing in preparation for widening		49,421.76	
Project C-3774 - Chilliwack Lake Road, reconstruct, gravel, widen and prepare new alignment		150,000.00	
Project N-0371 - Guardrail installation program 80/81		30,000.00	
Project W-0666 - Agassiz-Rosedale Highway 9 Fencing Schedule 2 Highways, Cheam Indian Reserve 1		3,000.00	414,421.76
Day Labour - Bill 5 - Bridges -			
Project B-0292 - Elbow Creek Bridge 8044 new pre-cast concrete stringers structure			69,000.00
Maintenance of roads			997,601.99
Snow removal			150,647.00
Maintenance of bridges			71,885.91
Surveys generally - Project L-0101 -			
Cheam Street in Agassiz curb and gutter Pioneer to Highway 9		18,422.95	
Minor road surveys		9,494.35	
Trans Canada Highway Gibson Road and Annis Road (underpasses)		5,380.55	33,297.85

CHILLIWACK DISTRICT - continued

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Legal Surveys - Project L-0099 -		
Bourne Road Lots, 88,89,90,91 Plan 42548 and Lot 53 Plan 34964 D.L.501 Gp 2 New Westminster District	812.19	
Chilliwack Lake Road, Lot 42 D.L.501 Gp2 New Westminster District	497.89	
Frost Road, part sec.10 Tp22 New Westminster District	1,592.13	
Kossikar Road, part Sec.9 Tp22 New Westminster District	533.83	3,436.04
Rights-of-way - Project P-0113 -		
Columbia Valley Highway, through Cultus Lake Park	1.00	
Morris Valley Road	1.00	
Slesse Road	697.00	699.00
Rights-of-way - Bill 5 - Project P-0113 -		
Agassiz curb and gutter, Evergreen Drive and Cheam Avenue	1.00	
Columbia Valley Highway thru Cultus Lake park	27,500.00	
Slesse Road	6,178.00	33,679.00
Construction -		
Bridges - Project B-1098 - B. C. Hydro Railway Underpass 2624 at Sardis, Trans Canada Highway		200,000.00
Surfacing - Project S-1538 - "C" Street (2.4 km) and Trans Canada Highway 401 eastbound		2,140.07
Surfacing - Bill 5 - Project S-0177 - District of Chilliwack Old Yale Road, storm sewer, curb and gutter and paving (1.53 miles)		42,000.00
Total, Chilliwack District		2,435,045.11

COLUMBIA RIVER DISTRICT

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Day Labour - Roads -			
Project C-0024 - Kimberley and Cranbrook area streets, double flush		75,000.00	
Project C-0028 - Windermere area roads, paving		99,997.50	
Project C-0135 - Minor Betterments 80/81, miscellaneous		80,657.84	
Project C-0137 - Minor Betterments 80/81			
Minor improvements Area B	65,904.69		
Miscellaneous	160,424.39	226,329.08	
Project C-4150 - Athalmer overhead		99,842.53	581,826.95
Day Labour - Bridges			
Project B-0250 - Bugaboo Bridge			38,509.35
Day Labour - Bill 5 - Roads -			
Project C-0512 - Highway 93/95, shoulder widening		182,090.12	
Project C-0513 - Golden/Donald Bench Road		77,634.99	
Project C-0514 - Miscellaneous roads in Golden District		24,901.15	
Project C-2762 - St. Mary's Lake Road, reconstruction		236,213.45	
Project N-0387 - Guardrail installation program 80/81		130,918.38	
Project W-0353 - Fencing Schedule 2, Highways		8,000.00	
Project W-0355 - Fencing Schedule 2, Highways		30,010.36	689,768.45
Day Labour - Bill 5 - Bridges -			
Project B-0312 - Sheep Bridge 6365		20,000.00	
Project B-0313 - Matthew Bridge 288		15,209.59	
Project B-0314 - Lewis Bridge 6364		46,559.55	81,769.14
Maintenance of roads			2,672,428.66
Snow removal			975,817.00
Maintenance of bridges			189,768.47
Surveys generally - Project L-0101 -			
Athalmer, Highway 93/95		45,653.12	
Golden to Yoho Park Boundary		610.00	
Lower Toby Creek Road		95,959.94	
Minor road surveys		12,064.97	
Trans Canada Highway East of Yoho Bridge		1,586.00	
Trans Canada Highway Golden-Yoho Bridge		48,983.47	204,857.50
Legal surveys - Project L-0099 - Kootenay-Columbia Highway 95 through parts of D.L.16307 and Section 12 Tp27 R22 W5M Kootenay District Golden Bypass			3,385.58
Rights-of-way - Project P-0113 -			
Dorney Road 85		384.00	
Pighin Road 72		1,817.00	
Westside Road 2 - Golden		469.30	2,670.30

COLUMBIA RIVER - continued

Rights-of-way - Bill 5 - Project P-0113 -			
Beard's Creek Road 17 and Spence Road 66		372.00	
Brisco Road 9		6,032.50	
Golden Donald Upper Road 42		2,060.00	
Granger Road		2,640.00	
Holmes-Deakin Road 365		3,115.00	
Mark Road 623		9,000.00	
Moberly School Road 56		553.50	
Pighin Road 72		1,765.00	
St. Mary's Lake Road		7,118.00	32,656.00
Construction -			
Signals, lighting etc. -			
Project E-7956 - Lighting installation Route 93/95 at Athalmer Road, Athalmer		14,491.00	
Project E-7988 - Lighting installation Route 93/95 at Radium Hill Road, Radium		5,515.00	20,006.00
Bridges - Project B-1283 - Athalmer Overhead 2671 Athalmer-Invermere Road			251,378.31
Surfacing -			
Project S-0084 - Miscellaneous surface seal			
Road graded seal Golden; Brisco Spillimacheen Flats	62.35		
Road graded seal Windermere to Dutch Creek, Athalmer-Wilmer	133,982.99		
Shoulder graded seal Highway 95A Wasa Junction to Kimberley	194,439.93		
Shoulder seal Golden; Golden-McMurdo	156,537.51		
Shoulder Seal Windermere-Radium Golf Course	138,001.85	623,024.63	
Project S-0085 - Miscellaneous drum mix Toby Creek Road and Toby Bench (Golden)		347,482.99	
Project S-3701 - Highway 95, Golden to Castledale Section (48.5 km)		46,571.56	1,017,079.18
Total, Columbia River District			6,761,920.89

COMOX DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0154 - Minor Betterments 80/81			
Claudet Road, ditching, machine patch	14,312.30		
Miscellaneous road construction	23,826.02		
Lantzville-Superior Road, area drainage	15,109.04		
Station Road, reconstruction	9,974.50	63,221.86	
Project C-0155 - Minor Betterments 80/81			
Courtenay North, miscellaneous	81,206.10		
Miscellaneous	69,025.27	150,231.37	
Project C-0195 - Parksville roads		144,519.07	
Project C-0197 - Comox Valley Road, gravel and pave		96,170.98	
Project C-0198 - Swan Road-Denman Island, widen and road-mix, pave		25,166.12	
Project C-0200 - Anderson Drive, road-mix pave		51,987.55	
Project D-4280 - New rest area development of the North Island Highway 19		57,206.99	
Project V-0617 - Secondary Highway 243B, Comox Avenue and Anderton Road, Town of Comox		6,932.77	
Project V-0618 - Secondary Highway 257B, Comox Avenue, Stewart Street, Balmoral Avenue and Port Augusta Street, Town of Comox		25,349.31	620,786.02
Day Labour - Bill 5 - Roads -			
Project C-0197 - Comox Valley roads, gravel and pave		98,376.58	
Project C-0545 - Condensory Road, construct extension		7,365.61	
Project C-0548 - Roy Creek Road, replace cribbing		19,435.10	
Project C-0550 - Shaw's Hill Highway 19, reconstruction		461,957.62	
Project C-0671 - Forbidden Plateau Road, construction of parking lot at the bottom of the hill		12,799.50	
Project N-0398 - Guardrail installation Program 80/81		5,533.45	605,467.86
Day Labour - Bill 5 - Bridges -			
Project B-0338 - Buller Bridge 7303		18,546.70	
Project B-0340 - Power House Bridge 7312		81,965.23	100,511.93
Maintenance of roads			2,386,097.92
Snow removal			357,311.91
Maintenance of bridges			150,723.32
Maintenance and operation of ferries -			
Comox-Westview Ferry (see also MacKenzie)		1,631,716.77	
Denman Island Ferry		1,188,650.85	
Hornby Island Ferry		930,823.05	
Lasqueti Island Ferry		183,000.00	3,934,190.67

COMOX DISTRICT - continued

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Surveys generally - Project L-0101 -		
Canadian Highway 4, west boundary Lot 9 to Alberni Junction	30,158.25	
Coleman Road-Lazo Road	79,311.32	
Courtenay North Dingwall Road-Merville	52.00	
Island Highway from Courtenay, curb and gutter to Courtenay River Bridge to H. Q. Road	3,902.65	
Island Highway from Parksville, curb and gutter	61,761.93	
19 Island Highway from South Lantzville Junction to North West Bay Logging Road (see also Nanaimo).	1,963.50	
Minor road surveys	44,919.07	
Road to Forbidden Plateau, Courtenay area	32,969.77	
Route 19, 18 km north of Parksville	3,826.58	
17th Street-Courtenay Second Crossing	12,975.80	
Vancouver Island Highway-Parksville Bypass	12,077.97	283,918.84
Legal Surveys - Project L-0099 -		
Explanatory Plan for Drainage Easement Right-of-way through Lot 17 Plan 29168 D.L.108 Nanoose District, District Drawing A-33	60.00	
Island Highway through Part of D.L.'s 81 and 89 Newcastle District (Near Dashwood) 1.4 km	2,797.37	
Proposed New Island Highway, Qualicum-Bowser Section through part of Lot 14, D.L.85 Plan DD19772-W Newcastle District	1,374.17	4,231.54
Rights-of-way - Project P-0113 -		
Island Highway, Lantzville to Craig's Crossing	53,381.75	
Island Highway at Sackville Road	1.00	
Kye Bay Road	1.00	
Lee Road at Island Highway	5,728.00	
Miraloma Drive	110,279.93	
17th Street Crossing, Cliffe Avenue to Dingwall Road	155,716.68	
Whaletown Road and Hunt Road	185.33	325,293.69
Rights-of-way - Bill 5 - Project P-0113 -		
Brewster Lake Road and Willow Street	21,385.00	
Condensory Road extension	194,700.00	
Forbidden Plateau Road	6,875.00	
Island Highway Lantzville to Craig's Crossing	102,099.79	
Island Highway Shaw's Corner	18,607.95	
Lee Road at Island Highway	3,209.00	
Nanoose Creek, Craig's Crossing	147.38	
17th Street Crossing, Cliffe Avenue to Dingwall Road	206,272.85	
Swan Road	1,809.00	555,105.97
Construction -		
Roads - Project C-3989 - Forest Road, Port Alberni to Cumberland Road. (see also Alberni)		2,117.47

COMOX DISTRICT - continued

	$	$
Construction - continued		
Roads - Bill 5 -		
Project C-3989 - Forest Road, Port Alberni to Cumberland Road (see also Alberni)	662.52	
Project C-4527 - Courtenay 17th Street Crossing, Cliffe Avenue to Dingwall Road km 71.29 to km 74.59 (2.3 miles) including connecting roads.	760,826.47	761,488.99
Highway Safety - Project C-0204 - Gravel and pave shoulder, relocate two telephone poles, Route 28, Campbellton Elementary		11,739.74
Bridges -		
Project B-1285 - Courtenay River Crossing 2701, 17th Street, Courtenay, Island Highway.	595,288.36	
Project B-1373 - Bonell Creek Bridge Duplicate 1246: Nanoose Creek Bridge Duplicate 1247: Island Highway	443,175.36	1,038,463.72
Bridges - Bill 5 -		
Project B-0656 - Island Highway 19, Nanoose Overhead duplicate and Nanoose Overhead modifications.	123,972.00	
Project B-1285 - Courtenay River Crossing 2701, 17th Street, Courtenay, Island Highway	1,889,595.57	2,013,567.57
Ferry Landings - Bill 5 - Project B-0562 - Little River Ferry Terminal wingwalls and dredging		470,465.18
Surfacing - Project S-6428 - Highway 28, Buttle Narrows to Camp 8 (30.5 km)		517,300.09
Surfacing - Bill 5 - Project S-0639 - Highway 19, Black Creek University of British Columbia Farms to Ocean Grove		56,388.55
Total, Comox District		14,195,170.98

COQUITLAM-MOODY DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81, miscellaneous		94,268.86	
Project C-0248 - Pitt River Bridge, approaches		75,000.00	
Project C-4475 - Highway 7, intersection improvements at Shaughnessy Street, Port Coquitlam		40,000.00	
Project V-0596 - Secondary Highway 265B, Knowle Drive, City of Port Moody		643,082.40	
Project V-0742 - Secondary Highway 210B, Pitt River Road, McLean Avenue, Kingsway and Trenton Avenue, City of Port Coquitlam		33,845.17	
Project V-0759 - Secondary Highway 116B, Clark Road, City of Port Moody		2,844.00	889,040.43
Day Labour - Bill 5 - Roads -			
Project D-0724 - Pitt River Bridge, landscaping approaches		20,000.00	
Project N-0370 - Guardrail installation program 80/81		10,000.00	30,000.00
Maintenance of roads			277,178.54
Snow removal			31,154.45
Maintenance of bridges			37,569.96
Surveys generally - Project L-0101 -			
Barnet Highway to Ioco Road		2,700.00	
Barnet Highway from Sperling Avenue to Clark Road (see also Burnaby North)		23,909.55	
Como Lake to Kingsway		98.00	
Lougheed from Cape Horn Interchange to Port Coquitlam (Kingsway Avenue)		11.81	
Minor road surveys		1,950.00	
Port Moody Arterial		51.00	
Port Moody Alternate Highway from Barnet Highway (7A) to Clark-Murray Street		129.00	28,849.36
Legal surveys - Project L-0099 -			
Como Lake Road widening in Parcel 1 Ref. Plan 5122 D.L.378 Gpl New Westminster District		849.00	
Lougheed Highway widening in parts of D.L.464 Gpl New Westminster District at Shaughnessy Street		509.90	1,358.90
Rights-of-way - Project P-0113 - Lougheed Highway, Colony Farm interchange			314,342.46
Rights-of-way - Bill 5 - Project P-0113			
Gravel Pits		15,000.00	
Lougheed Highway Colony Farm interchange		1.00	
Mary Hill Bypass		220,920.24	235,921.24

COQUITLAM-MOODY DISTRICT - continued

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Construction -		
Roads -		
Project C-3144 - Lougheed Highway 7, Cape Horn to Pitt River Bridge (new section)	34,095.63	
Project C-3402 - Lougheed Highway reconstruction, North Road to Cape Horn, approx. 4 miles	3,117,270.84	
Project C-4092 - Cape Horn-Pitt River Highway, Mary Hill Bypass	2,101,039.63	5,252,406.10
Signals, lighting etc. -		
Project E-7807 - Signal and lighting installation Route 7, North Road to Brunette Street, Coquitlam		56,784.59
Municipal Programmes -		
Project O-0691 - Reconstruction of Senkler Road (Windermere Creek) Bridge, Village of Belcarra		19,415.00
Bridges -		
Project B-0870 - Pitt River Bridge upstream structure, Lougheed Highway. (see also Dewdney)	36,366.46	
Project B-1159 - Ioco Overhead Crossing widening 1314: Barnet Highway 7A	40,612.41	
Project B-1374 - Colony Farm Overhead 2664, Cape Horn to Pitt River Highway	660,628.06	737,606.93
Total, Coquitlam-Moody District		7,911,627.96

COWICHAN-MALAHAT DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0122 - Minor Betterments 80/81, miscellaneous		910.40	
Project C-0152 - Minor Betterments 80/81, miscellaneous		183,477.08	
Project C-0186 - Cowichan Bay Road, reconstruct and pave		30,000.00	
Project C-0187 - Cowichan Lake Road, reconstruct and pave		31,461.71	
Project C-0189 - Sallachie Road, reconstruct and pave		19,615.95	
Project V-0693 - Secondary Highway 2693, Oak Street, District of North Cowichan		119.26	
Project V-0694 - Secondary Highway 368, Maple Bay Road, District of North Cowichan		17,580.81	
Project V-0695 - Secondary Highway 1698, Chemainus Road, District of North Cowichan		23,738.25	306,903.46
Day Labour - Bill 5 - Roads -			
Project C-0186 - Cowichan Bay Road, reconstruct and pave		109,764.09	
Project C-0187 - Cowichan Lake Road and South Shore Road, reconstruct and pave		8,341.66	
Project C-0190 - Chemainus Road, reconstruct and pave		15,642.28	
Project C-0538 - Renfrew Road, reconstruct and pave		49,791.36	
Project C-0539 - Thain Road, reconstruct and pave		30,523.35	
Project C-0540 - Cowichan Valley Highway, shouldering		87,385.12	
Project N-0395 - Guardrail installation program 80/81		30,610.56	332,058.42
Day Labour - Bill 5 - Bridges -			
Project B-0333 - Findley Bridge		86,291.56	
Project B-0336 - Otto Bridge		43,922.53	
Project B-0341 - Meades Bridge		61,708.14	191,922.23
Maintenance of roads			2,384,694.52
Snow removal			287,342.25
Maintenance of bridges			114,782.78
Maintenance and operation of ferries -			
Thetis Island Ferry			1,144,799.19
Surveys generally - Project L-0101 -			
Crofton access Trans Canada at Mt. Sicker		15,533.91	
Island Highway from Bench Road to Duncan		1,446.65	
Island Highway from Chemainus to Ladysmith		80,273.84	
Left turn slots on Trans Canada Highway at James Road, Duncan		114.32	
Mill Bay - Cowichan Golf Course		72,945.56	
Minor road surveys		19,884.53	
Trans Canada Highway 1 (Island Highway) from Langford to Shawnigan Lake Road		234.34	
Trans Canada Highway south of Duncan		48,554.59	238,987.74

COWICHAN-MALAHAT DISTRICT - continued

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Legal surveys - Project L-0099 - Trans Canada Highway through Blocks 1237, 371 and 176 *Malahat District*			2,922.88
Rights-of-way - Bill 5 - Project P-0113 -			
Cowichan Bay Road		501.00	
Doupe Road		6,500.00	
Koksilah pedestrian overpass		1,152.00	
Koksilah Road		4,000.00	
North Shore Road		1,830.00	
Shawnigan Lake Road		1,775.00	
Shawnigan-Mill Bay Road and Trans Canada Highway		1.00	15,759.00
Construction -			
Roads -			
Project C-0201 - Highway 1, paving lane at Bamberton.		122,791.50	
Project C-3711 - Bench Road to Duncan (Trans Canada Highway) Victoria, Duncan sub-division, grading mile 33.42 to 35.87		581,948.83	704,740.33
Signals, lighting etc -			
Project E-0343 - Lighting and signal installation Route 1 at Allenby Road, Duncan		21,723.23	
Project E-0669 - Signal and lighting revision Route 1 at James/York Road, Duncan		14,519.48	
Project E-7967 - Lighting and traffic signal installation Route 1 at Cowichan Way and Route 1 at Boys Road, Duncan		5,535.49	41,778.20
Bridges -			
Project B-0976 - Cowichan River Bridge 1289, Chemainus River Bridge 1298, Trans Canada Highway 1, fabrication and erection structural steelwork		197,102.45	
Project B-1346 - Duncan Wagon Bridge 611, Rudy Johnson Bridge 2695 and Chemainus River Bridge 1298, modifications portal bracing (see also Cariboo)		1,949.42	199,051.87
Bridges - Bill 5 - Project B-0663 - Cowichan River Bridge 1289, 1 km south of Duncan, modifications to bracing			1,276.81
Surfacing -			
Project S-0084 - Miscellaneous surface seal Surface chip seal and shoulder seal Cowichan Lake Road Junction of Highway 1 to Meade Creek Bridge (31 km)		409,966.59	
Project S-6101 - Highway 18, Youbou to Meade Creek Bridge (10.63 km)		739,635.02	
Project S-6201 - Trans Canada Highway 1, Mill Bay to Duncan and miscellaneous roads (22.3 km)		18,489.48	1,168,091.09
Surfacing - Bill 5 - Project S-6201 - Trans Canada Highway 1, Mill Bay to Duncan and miscellaneous roads (22.3 km)			1,550,773.94
Total, Cowichan-Malahat District			8,685,884.71

DELTA DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81, miscellaneous			6,201.63
Day Labour - Bill 5 - Bridges -			
Project B-0300 - Canoe Pass Bridge 53		33,274.46	
Project B-0415 - Highway 99, cleaning and painting of the George Massey Tunnel		84,800.00	118,074.46
Maintenance of roads			713,467.20
Snow removal			34,705.73
Maintenance of bridges			44,554.80
Surveys generally - Project L-0101 -			
Control line arterial mapping of the Matthews Road interchange on Highway 99		5,118.35	
Highway 10 from Ladner Bridge to Highway 17		234.50	
Scott Road from Highway 1 to Highway 10 (see also Surrey)		462.13	
Scott Road, Old Yale Road to 96th Avenue (see also Surrey)		16,576.44	22,391.42
Surveys generally - Bill 7 - Project L-0558 -			
Highway 10, Queensborough (see also New Westminster)		23,692.90	
Marine Way, Section 2 (see also New Westminster)		28,507.74	
Westminster Highway (see also New Westminster)		17,391.86	69,592.50
Rights-of-way - Project P-0113 -			
Annacis Project		74,838.72	
Chilliukthan Slough to Highway 17		900.00	75,738.72
Rights-of-way - Bill 5 - Project P-0113 -			
Annacis Project			276,813.18
Rights-of-way - Bill 7 - Project P-0599 -			
Annacis Project			6,108,520.34
Construction -			
Roads - Bill 7 -			
Project C-0598 - Fraser River Crossing- Supply and stockpiling of dredged material from the Fraser River (see also New Westminster)		588,465.80	
Project C-0672 - Fraser River Crossing, relocation of B.C.H.P.A. gas line, south side, Highway 99-Queensborough Bridge		174,408.52	762,874.32
Highway Safety - Project C-0202 -			
Massey Tunnel impact study attenuator installation (see also Richmond)			2,191.25
Signals, lighting etc. -			
Project E-0576 - Signal installation, 56th Street at 6th Avenue, Delta.		13,381.97	
Project E-0280 - Route 99, Massey Tunnel, reversible lane electrical and signing (see also Richmond)		252,823.67	266,205.64

DELTA DISTRICT - continued

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Construction - continued			
Geotechnical and materials - Project G-0038 - Annacis Crossing, geotechnical investigations (see also Richmond & New Westminster)			100,097.18
Geotechnical and materials - Bill 7 - Project G-0038 - Annacis Crossing, geotechnical investigations (see also Richmond & New Westminster)			94,167.19
Bridges - Project B-1379 - George Massey Tunnel, Highway 99, renovations to fire and domestic water system (see also Richmond)			59,565.10
Planning - Project O-1188 - Fraser River Crossing Project Study (see also New Westminster and Richmond)			2,477.87
Planning - Bill 7 - Project O-1188 - Fraser River Crossing Project Study (see also Richmond & New Westminster)			14,878.70
Surfacing - Project S-1401 - Matthews Road Interchange, Nicomekl River Section: Highway 99 (14.2 km) (see also Surrey)		940,968.41	
Project S-1448 - Storm drainage, paving, curb and gutter and lighting: Highway 10-Ladner Trunk Road from Chilliwhan Slough to Highway 17, Delta (1.06 miles)		683,477.79	1,624,446.20
Surfacing - Bill 5 - Project S-0035 - Highway 99 and Sea Island Highway Oak Street to George Massey Tunnel (see also Richmond)			406,763.56
Total, Delta District			10,803,726.99

DEWDNEY DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81, miscellaneous		3,031.50	
Project C-0120 - Minor Betterments 80/81, miscellaneous		56,224.40	
Project C-0248 - Pitt River Bridge approaches		75,000.00	
Project V-0717 - Secondary Highway 74B, Harris Road, District of Pitt Meadows		9,608.73	
Project V-0718 - Secondary Highway 75B, Hammond Road, District of Pitt Meadows		23,320.00	
Project V-0719 - Secondary Highway 79B, McNeil Road, District of Pitt Meadows		15,000.00	
Project V-0731 - Secondary Highway 253B, Dewdney Trunk Road and 224th Street, District of Maple Ridge		63,000.00	
Project V-0732 - Secondary Highway 254B, 232nd Street and Fern crescent, District of Maple Ridge		31,000.00	
Project V-0736 - Secondary Highway 77B, Dewdney Trunk Road, District of Mission, Wilson to Municipal Boundary, base preparation and shouldering		40,504.54	
Project V-0737 - Secondary Highway 283B, 7th Avenue, District of Mission, Cedar to Grand, drainage	47,736.06		
Cedar Valley Road, Tunbridge to Dewdney Trunk Road, base preparation and shouldering	17,442.37	65,178.43	381,867.60
Day Labour - Bill 5 - Roads -			
Project C-0490 - Hartley Road, recap		75,000.00	
Project C-0684 - Scave Lake Road, gravelling		50,000.00	
Project C-4467 - Horne Avenue-Glasgow Street, Mission, intersection improvements		9,500.00	
Project D-0724 - Pitt River Bridge, landscaping approaches		20,000.00	
Project N-0370 - Guardrail installation program 80/81		15,000.00	169,500.00
Day Labour - Bill 5 - Bridges -			
Project B-0295 - Judd Bridge 6012, new treated timber structure		20,000.00	
Project B-0297 - Farm Bridge 7035		13,990.83	33,990.83
Maintenance of roads			967,538.40
Snow removal			143,821.79
Maintenance of bridges			79,015.05
Maintenance and operation of ferries - Albion-Fort Langley Ferry			772,113.27

DEWDNEY DISTRICT - continued

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Surveys generally - Project L-0101 -		
Highway 11, Abbotsford-Mission mapping (see also Central Fraser Valley)	17.11	
Layout of first curve-north approach to Mission Bridge	99,191.08	
Lougheed Highway from C.P.R. Overhead, Dewdney and C.P.R. Overhead, Deroche	246.35	
Lougheed Highway from Haney to Silver Creek	21,764.44	
Lougheed Highway (existing) from Pitt River to Haney	64,554.79	
Minor road surveys	5,875.40	
Silverdale Creek-Hurd Road	4,719.53	196,368.70
Legal surveys - Project L-0099 -		
Beaudry Road through frac. S 1/2 Pcl F Sec.22 Tp24 New Westminster District		786.64
Rights-of-way - Project P-0113 -		
Haney Business Bypass	25,032.44	
Mission Roadworks	1.00	
Stave Lake Road 153	5,697.75	30,731.19
Rights-of-way - Bill 5 - Project P-0113 -		
Albion Ferry Landing approaches	63,794.17	
Haney Business Bypass	122,117.34	
Haney-Silverdale	868,191.28	
Mission roadworks	2,551.60	
Mount Woodside Rest area	37,913.85	
North Nicomen Road	8,188.45	
Stave Lake Road	156.00	1,102,912.69
Construction -		
Roads -		
Project C-4093 - Haney Business Bypass, Maple Ridge (3.0 km)	2,040,216.14	
Project C-4291 - Abbotsford-Mission Highway 11, Mission roadworks, northwest approach (1.35 km)	2,119,533.03	4,159,749.17
Signals, lighting etc. -		
Project E-0620 - Lighting installation Route 11 new north approach Mission Bridge	21,269.40	
Project E-7901 - Signal and lighting installation Route 7 at Wren Road, Mission	5,503.65	
Project E-7951 - Signal and lighting installation, Horne at Glasgow Street, Mission	31,176.84	57,949.89
Bridges -		
Project B-0870 - Pitt River Bridge Upstream Structure, Lougheed Highway (see also Coquitlam-Moody)	36,366.46	
Project B-1375 - Pitt River Bridge 58 rehabilitation of Super Structure Lougheed Highway	1,071,325.79	1,107,692.25
Municipal Programmes - Bill 5 - Project 0-0657 - Replacement of the 224th Street Bridge over the North Alouette River, District of Maple Ridge		100,000.00
Total, Dewdney District		9,304,037.47

ESQUIMALT-PORT RENFREW DISTRICT

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Day Labour - Roads -			
Project C-0122 - Minor Betterments 80/81, miscellaneous		4,884.81	
Project C-0153 - Minor Betterments 80/81		119,810.76	124,695.57
Day Labour - Bill 5 - Roads -			
Project C-0192 - Helmcken Road, reconstruct and pave		141,665.47	
Project C-0541 - West Coast Road, retaining wall at Mile 13		25,285.30	
Project C-0583 - Richview Road, paving		8,192.73	
Project N-0396 - Guardrail installation program 80/81		43,334.95	218,478.45
Day Labour - Bill 5 - Bridges -			
Project B-0332 - Harris Cove Bridge 831		56,975.13	
Project B-0339 - Barker Bridge 7049		29,239.27	86,214.40
Maintenance of roads			1,615,092.08
Snow removal			116,275.46
Maintenance of bridges			89,340.25
Surveys generally - Project L-0101			
Humpback Road-Highway 1 to Highway 14		7.74	
Jordan River-Port Renfrew from mile 11.3 to mile 18.5		684.71	
Miscellaneous Langford Colwood area-Meaford Avenue to Latoria Road		3,889.79	
Widening on Helmcken Road and access to Hospital etc.		12,532.80	17,115.04
Legal surveys - Project L-0099 -			
Caldwell Road in Lots 1 & 2 Plan 2517 Sec.3 Sooke District (Drawing 11-38)		499.83	
Establishing Chancellor Avenue widening in Parcel A DD71617I Sec.9 Esquimalt District		346.00	
Glenidle Road in part Lot 6 Strata Plan 314 Block 1 Sec.7 Sooke District (Drawing 62-228)		569.22	
Kaltasin Road in part Lot 1 Strata Plan 558 Sec.7 Sooke District (Drawing 62-229)		620.50	2,035.55
Rights-of-way - Project P-0113 - Trans Canada Highway at Amy Road			645.00
Rights-of-way - Bill 5 - Project P-0113 -			
Flatman Avenue-Metchosin		350.00	
Island Highway at Colwood		170,320.73	
Millstream Road extension, Sooke Road and Allandale Road		160,000.00	
Sooke Road		450.00	331,120.73
Construction -			
Roads -			
Project C-2978 - Trans Canada Highway, Harriet Road to Thetis Overhead, grading (see also Saanich and the Islands)			11,506.78

ESQUIMALT-PORT RENFREW DISTRICT - continued

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Construction - continued			
Highway Safety - Project C-0204 - Paved shoulders for walkway along Happy Valley Road, Metchosin			5,452.00
Roadside development - Project D-0095 - Site preparation of two tourist information centres, Trans Canada Highway 1 Victoria and Highway 17, John's Road, Sidney (see also Saanich and the Islands)			5,295.21
Signals, lighting etc. - Project E-0575 - Pedestrian signal installation Craigflower Road at Carrie Street, Esquimalt			7,057.35
Bridges - Project B-1380 - Removal of pier and steel span abandoned C.N.R. Bridge over Interurban Road			6,975.00
Total, Esquimalt-Port Renfrew District			2,637,298.87

KAMLOOPS DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0123 - Minor Betterments 80/81			
Kamloops area north, various roads, sealcoating, widening, gravelling	70,940.00		
Savona area, various roads, sealcoating, widening	25,406.00		
Barriere area, various roads, gravelling, road widening	56,872.00		
Birch Island area, various roads, sealcoating, gravelling	49,628.00		
Kamloops area south, various roads, sealcoating, machine patching, culvert installation	42,758.00		
Miscellaneous	87,495.06	333,099.06	
Project C-0145 - Minor Betterments 80/81		36,789.03	
Project C-0259 - Barriere Lakes Road, widening and paving		219,999.17	
Project C-0260 - Miscellaneous roads in the Kamloops area, construction and paving		104,932.37	
Project C-0271 - Pre-engineering surveys		918.43	
Project D-0251 - Manufacture and supply of roadside tables and toilet buildings		71,118.73	
Project D-4270 - Highway beautification, valleyview to Campbell Creek		42,529.99	809,386.78
Day Labour - Bill 5 - Roads -			
Project C-0457 - Heffley Creek to Louis Creek, shoulder widening		110,577.21	
Project C-0527 - Student summer employment program		6,904.16	
Project C-0564 - Highway 5 Merritt-Kamloops Aberdeen Shopping Mall extension		125,498.28	
Project C-2514 - Clearwater Valley Road 139, reconstruction		487,969.58	
Project N-0373 - Guardrail installation program 80/81		60,320.05	
Project N-0434 - Guardrail installation program 80/81		28,277.44	
Project W-0344 - Fencing Schedule 2 Highways		77,401.63	896,948.35
Day Labour - Bill 5 - Bridges -			
Project B-0302 - Grouse Creek Bridge 6257			39,999.55
Maintenance of roads			5,661,951.07
Snow removal			1,446,607.81
Maintenance of bridges			555,557.81
Maintenance and operation of ferries			
McLure Ferry		47,526.60	
Little Fort Ferry		53,562.16	101,088.76
Surveys generally - Project L-0101 -			
Intersection of Highway 1 and Highway 5 at Kamloops		23,560.25	
Kamloops access from Springhill Drive to Mission Flats		79,117.95	
Little Fort-Lac Des Roches (see also Cariboo)		13,589.69	
North Thompson Highway, Clearwater River Bridge Crossing		498.00	

KAMLOOPS DISTRICT - continued

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Surveys generally - Project L-0101 - continued		
Trans Canada Highway 1 Cherry Creek to Cornwall Lodge	27,657.25	
Trans Canada Highway from Valleyview to Campbell Creek	4,631.00	
Westsyde Road, Kamloops from C.N.R. Overpass	1,748.14	
Yellowhead 5 from east boundary D.L.777 to D.L.79 (Preacher Hill)	826.36	151,628.64
Legal surveys - Project L-0099 -		
Lots 5 & 6 D.L.236 Kamloops Division Yale-District Plan 6165 Kamloops East Sec. T.C.H. LTO Plan H14043	140.00	
Plan of Statutory R/W of Agate Bay Road W.Bdy. D.L.1203 to S. Bdy. D.L.3027 Kamloops Division Yale District	10,974.75	11,114.75
Rights-of-way - Project P-0113 -		
Barriere Lake Road	3,000.00	
Barriere Townsite	850.00	
Clearwater Valley Road	600.00	
Deadman-Vidette Road	2,671.20	
Gravel Pits	2,000.00	
Sundry expenses	1,815.84	
Westsyde Road, Westmount to Franklin	24,517.25	35,454.29
Rights-of-way - Bill 5 - Project P-0113 -		
Agate Bay Road	12,559.00	
Clearwater Valley Road	4,200.00	
Deadman-Vidette Road	3,630.00	
Gravel Pits	75,920.00	
Halston Overhead	21,827.00	
Intersection of Highway 1 and 5 at Kamloops	201,251.00	
Summit Drive	672,800.00	
Sundry expenses	59,057.22	
Trans Canada Highway 1 Aberdeen Commercial Park	1.00	
Trans Canada Highway-Valleyview Campbell Creek	200,027.86	
Trans Canada Highway widening at Monte Creek	1.00	
Westsyde Road, Westmount-Franklin	24,288.37	
Wolsey Road	2,358.00	1,277,920.45
Construction -		
Roads -		
Project C-2845 - Halston Overhead at Kamloops and Overlanders Bridge, north approach	605,090.28	
Project C-3948 - Westsyde Road, from Westmount to Franklin Road, City of Kamloops	739,561.44	
Project C-4102 - Highway 24, 93 Mile-Little Fort, Little Fort, Phinetta Lake, Section 2 (10.03 miles)	3,947,906.92	5,292,558.64
Roadside development - Project D-0097 -		
Landscape development of Halston Overpass, 8th Street, Kamloops		70,363.92

KAMLOOPS DISTRICT - continued

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Construction - continued		
Bridges -		
Project B-1160 - Halston Overpass 2590 and Halston Overhead 2594, Eighth Street	25,964.07	
Project B-1184 - Vavenby Bridge 898, Vavenby Bridge Road	491.88	26,455.95
Surfacing - Project S-4628 - Highway 5, Messiter Summit to Milledge Creek sections (23.99 km)		99,352.81
Total, Kamloops District		16,476,389.58

KOOTENAY DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0023 - Cranbrook area streets, reconstruct		49,616.00	
Project C-0024 - Kimberley and Cranbrook area streets, double flush coat		93,418.00	
Project C-0025 - Jaffray, Baynes Lake, Grasmere area roads, reconstruct and gravel		50,000.00	
Project C-0026 - Fernie, Hosmer, Elko area roads, reconstruct and gravel		50,000.00	
Project C-0027 - Elk Valley Road, shoulder widening		140,000.00	
Project C-0135 - Minor Betterments 80/81, miscellaneous		115,479.81	
Project C-0136 - Minor Betterments 80/81			
Miscellaneous	102,236.15		
Fernie, Hosmer, Elko roads	51,578.09	153,814.24	
Project C-2569 - Kikomun-Newgate Road 36, apply liquid calcium		20,000.00	
Project C-3668 - Southern Trans Provincial Highway 3, Fernie District, backslope improvements		19,786.00	
Project C-3976 - Fencing and livestock crossings, Schedule 2 Highways, Elk Valley Road 4		30,000.00	722,114.05
Day Labour - Bridges -			
Project B-0249 - Haynes Bridge 6786			38,948.13
Day Labour - Bill 5 - Roads -			
Project C-0509 - Highway 95A in the Cranbrook Highways District, shouldering		80,000.00	
Project C-0510 - Southern Trans Provincial Highway 3, Ryan, left turn slot, construction		31,000.00	
Project C-0511 - Carbon Creek Bridge approaches, construction		121,000.00	
Project C-3069 - Corbin Road 26, reconstruct and liquid calcium		268,596.00	
Project N-0385 - Guardrail installation program 80/81		56,200.00	
Project N-0386 - Guardrail installation program 80/81		150,455.15	
Project W-0353 - Fencing Schedule 2 Highways		16,809.34	
Project W-0354 - Fencing Schedule 2 Highways		30,000.00	754,060.49
Maintenance of roads			2,097,148.95
Snow removal			587,326.00
Maintenance of bridges			130,295.76
Surveys generally - Project L-0101 -			
Cranbrook Kimberley Airport-north access		68,350.79	
Elk Valley Highway from Elk River to Cummings Street		18,028.67	
Highway 3 to McGillivray		18,856.14	
Minor road surveys		26,726.30	
Southern Trans Provincial Highway 3 upper Moyie Lake		47,144.11	
Wildlife reflector study (see also Nelson-Creston)		7,489.81	186,595.82

KOOTENAY DISTRICT - continued

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Legal surveys - Project L-0099 -			
Cranbrook-Wycliffe Road		597.00	
Elk Valley Road 4 L7782 to N.Bdy. L7987 Kootenay District		17,062.04	
Gold Creek Road through part of S.L. 26 D.L.4591 Kootenay District		1,149.00	
St.Marys Lake Road 115 Highway 95A to Mathews Creek		9,464.10	28,272.14
Rights-of-way - Project P-0113 -			
Elk Valley Road 4		39,453.29	
Gravel pits		3,144.00	
Kelly Road 84		2,750.00	
37th Street South 327		120.00	45,467.29
Rights-of-way - Bill 5 - Project P-0113 -			
Dock Road 90		185.25	
Elk Valley Road 4		32,005.00	
Fernie-Hosmer Road		4,190.00	
Kennedy Road 240		1,343.78	
Southern Trans Provincial Highway		3,374.00	
37th Street South 327		360.00	
Yahk-Meadow Creek Road 37		309.00	41,767.03
Construction -			
Roads -			
Project C-3720 - Kimberley Highway 95A, Wycliffe to Cranbrook section and Cranbrook Airport Access Road			3,079,848.68
Signals, lighting etc. -			
Project E-0014 - Signal and lighting installation Route 3/95 at Victoria Avenue, Cranbrook		28,715.66	
Project E-0585 - Lighting installation Route 95A, Wycliffe-Cranbrook Section		13,084.00	41,799.66
Bridges -			
Project B-0705 - Kootenay Crossing at Kikomun Creek (Libby Pondage area)		1,484,382.97	
Project B-1169 - Wasa Bridge: Highway 95.		2,429.12	
Project B-1261 - McPhee Bridge over the St. Mary River, Highway 95A		1,719,257.10	
Project B-1345 - Brewery Bridge 348, Cokato Road Carbon Bridge 769, Southern Trans Provincial Highway Fording Drive Bridge 2722, Fording Drive (at Elkford)		489,599.72	3,695,668.91
Surfacing -			
Project S-3402 - Aggregates in stockpile (see also Rossland-Trail, Nelson-Creston, Shuswap-Revelstoke)		32,522.09	
Project S-3601 - Highway 93 Elko to Roosville (41.0 km)		368,639.85	401,161.94
Surfacing - Bill 5 -			
Project S-3601 - Highway 93, Elko to Roosville (41.0 km)			1,552,640.51
Total, Kootenay District			13,403,115.36

LANGLEY DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81			
Highway 1, resurfacing Carvolth	54,698.56		
Miscellaneous	23,640.36	78,338.92	
Project V-0689 - Secondary Highway 256B, Carvolth Road, City of Langley		7,459.00	85,797.92
Day Labour - Bill 5 - Roads -			
Project N-0370 - Guardrail installation program 80/81			2,500.00
Maintenance of roads			610,738.49
Snow removal			44,596.25
Maintenance of bridges			24,341.10
Maintenance and operation of ferries -			
Albion-Fort Langley Ferry			772,113.28
Surveys generally - Project L-0101 -			
Carvolth interchange (Highway 1 at 200th)		6,816.36	
Highway 1A from 200th Street to 202nd Street		140.00	
Minor road surveys		5,292.00	
Miscellaneous (Langley from Fraser Highway at 208th Street to Glover Road)		307.00	
Plan, profile and estimate for reconstruction of Glover Road between Spring Brook Road and 88th Avenue		462.00	13,017.36
Legal surveys - Project L-0099 -			
MacMillan Island Ferry Foreshore Lot, Lot 844 Group 2 New Westminster District		754.00	
Reference Plan to consolidate Lot B of Lot 7 and west 330 feet of Lot 6 Plan 10409 in Sec.20 Blk 5 N. R1W New Westminster District (see also Surrey)		304.25	1,058.25
Rights-of-way - Project P-0113 - Langley Bypass			14.06
Rights-of-way - Bill 5 - Project P-0113 -			
Langley Bypass		846,155.53	
Langley curb and gutter		8,339.75	854,495.28
Construction -			
Roads - Project C-4406 - Langley Bypass construction from Highway 10 near Glover Road to Fraser Highway at 209th Street Sta.1+75 to Sta.18+87			881,439.41
Signals, lighting etc. -			
Project E-0555 - Traffic signal revision Route 1A at 56th Avenue (New McLennan Road) Langley		14,362.46	
Project E-0612 - Signal and lighting installation, Route 1A at 232nd Street, Langley		29,267.24	
Project E-7930 - Signal and lighting installation Route 1A at 216th Street, Langley		11,275.00	

LANGLEY DISTRICT - continued

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Construction - continued -			
Signals, lighting etc. - continued			
Project E-7935 - Signal and lighting installation, Route 1A, various intersections, Route 10 at 200th Street (Carvolth Road) 200th Street- Various, Langley, B.C.		154,547.19	
Project E-7976 - Signal installation Route 1A at 248th, Langley		21,839.93	231,291.82
Surfacing -			
Project S-1458 - Storm sewer, curb and gutter and paving; Highway 1A and 200th Street (1.02 miles)			928,569.18
Total, Langley District			4,449,972.40

MACKENZIE DISTRICT .

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Day Labour - Roads -		
Project C-0118 - Minor Betterments 80/81, miscellaneous	127,300.00	
Project C-0122 - Minor Betterments 80/81, miscellaneous	1,213.87	
Project C-0146 - Minor Betterments 80/81, miscellaneous	33,195.82	
Project C-0183 - Highway 101, Wakefield Creek culvert replacement	60,000.00	
Project C-0728 - Sechelt Inlet Road, paving	20,000.00	
Project C-3632 - Malaspina Road, reconstruct	100,000.00	
Project V-0831 - Secondary Highway 2278, North Road, Village of Gibsons	180,000.00	521,709.69
Day Labour - Bill 5 - Roads -		
Project C-0485 - Highway 101, third laning from Earl's Cove south for 1 mile	170,000.00	
Project C-0533 - Highway 20, Bella Coola, complete construction	10,000.00	
Project C-0611 - Lower Roberts Creek Road, culvert replacement and erosion control	80,000.00	
Project C-0710 - Machine patching, Highway 101, Garden Bay area	30,000.00	
Project C-0711 - Widen to establish shoulder, Port Mellon Highway, Gibsons-Langdale	50,000.00	
Project C-4244 - Miscellaneous school bus and farm roads in the Williams Lake Highway District, reconstruct and gravel	3,200.00	
Project N-0369 - Guardrail installation program 80/81	60,000.00	403,200.00
Day Labour - Bill 5 - Bridges -		
Project B-0291 - Gray Creek Bridge 7832	85,000.00	
Project B-0685 - Thorsen Bridge 2, Highway 20 in the Bella Coola area, replacement	80,928.68	
Project B-0686 - Skimlik Bridge, Highway 20 in the Bella Coola area, replacement	78,208.31	
Project B-0687 - Saugstad Bridge, Highway 20 in the Bella Coola area, replacement	88,471.78	332,608.77
Maintenance of roads		1,558,820.21
Snow removal		193,646.00
Maintenance of bridges		112,295.81
Maintenance and operation of ferries -		
Comox-Westview Ferry (see also Comox)	1,471,432.22	
Texada Island Ferry	1,677,862.02	3,149,294.24
Surveys generally - Project L-0101 -		
Highway 101 from Langdale Ferry to Highway 101 at Park Road Sechelt Bypass-Airport to Trout Lake	47,313.00	
Highway 101 from Secret Cove to Madeira Park	54,497.23	
Langdale, Gibsons Landing from Gibsons Creek to Park Road, curb and gutter	37.44	
Lower Road-Roberts Creek	5,821.96	
Minor road surveys	6.80	
West Sechelt, N. W. Bay Road, Red Roofs Road	1,126.60	108,803.03

MACKENZIE DISTRICT - continued

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Rights-of-way - Project P-0113 - Barnes Road		230.00
Rights-of-way - Bill 5 - Project P-0113 -		
Blubber Bay Ferry Terminal	3,000.00	
Chamberlain and Bridgman Road	4,006.00	
Highway 101 and Lower Road	7,233.30	
North Road	180.00	
Point Road	3,300.00	
R/W requirements thru D.L.1331 Village of Sechelt	20,500.00	
Sechelt Inlet Road	4,860.00	
Tillicum Bay Road	800.00	
Williamson's Landing Road	10,282.50	54,161.80
Construction -		
Signals, lighting etc. - Project E-7947 - Signal installation Route 101 at Alberni/ Willingdon Street, Powell River		953.84
Ferry Landings - Project B-1389 - Blubber Bay Ferry Terminal, ramp replacement		545,991.33
Surfacing -		
Project S-1201 - Sechelt Peninsula miscellaneous roads	1,060,396.12	
Project S-4701 - Chilcotin Highway 20, Bella Coola Wharf to Saloompt Road section (km 0.0 to 20.9) 20.9 km miscellaneous roads at Bella Coola 2.6 km and Noosgulch Bridge to foot of hill section (42.9) Total 66.4 km	3,266.75	1,063,662.87
Total, Mackenzie District		8,045,377.59

MAILLARDVILLE-COQUITLAM DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81, miscellaneous		17,234.84	
Project C-0720 - Trans Canada Highway 1 east of King Edward Overpass, eastbound slow lane, grinding and patching		65,634.67	
Project V-0752 - Secondary Highway 14B, North Road (east half), District of Coquitlam		1,161.02	84,030.53
Day Labour - Bill 5 - Roads - Project C-0720 - Trans Canada Highway 1, eastbound slow lane, grinding and patching			4,360.83
Maintenance of roads			112,866.46
Snow removal			9,039.63
Maintenance of bridges			14,463.55
Surveys generally - Project L-0101 - Mary Hill Bypass			160,194.93
Rights-of-way - Project P-0113 - Lougheed Highway, North Road to Cape Horne interchange			15,524.62
Rights-of-way - Bill 5 - Project P-0113 - Lougheed Highway, North Road to Cape Horne interchange			647,891.99
Construction -			
Roadside development - Project D-0094 - Landscape development of the Lougheed Connector and Port Mann Bridge north approach on Highway 1			90,984.10
Total, Maillardville-Coquitlam District			1,139,356.64

NANAIMO DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0122 - Minor Betterments 80/81, miscellaneous		11,727.62	
Project C-0152 - Minor Betterments 80/81, miscellaneous		98,018.43	
Project C-0185 - Nanaimo Lake Road, reconstruct and pave		50,912.35	
Project C-0188 - North Road, reconstruct and pave		47,912.32	
Project C-0190 - Chemainus Road, reconstruct and pave		20,000.00	
Project D-0012 - Rest area upgrading		16,942.94	
Project D-0013 - Highway beautification		11,528.49	257,042.15
Day Labour - Bill 5 - Roads -			
Project C-0519 - Island Highway 19 and Rutherford Road intersection		142,198.43	
Project N-0395 - Guardrail installation program		10,311.34	
Project W-0365 - Fencing Schedule 2 Highways		9,413.25	161,923.02
Maintenance of roads			1,883,070.03
Snow removal			110,116.75
Maintenance of bridges			41,330.67
Maintenance and operation of ferries -			
Gabriola Island Ferry		1,723,788.14	
Newcastle Island Ferry subsidy		21,500.00	1,745,288.14
Surveys generally - Project L-0101 -			
Duke Point access road		115,474.18	
Highway 19, Bowen Road, Norwell and Rock City Road		13,765.38	
Island Highway from Ladysmith to Yellow Point Road		22,938.06	
Highway 19, Nanaimo Bypass		102,532.41	
Highway 19, Nanaimo, Hammond Bay Road-Superior Road		23,349.27	
19 Island Highway from South Lantzville Junction to Northwest Bay Logging Road (see also Comox)		1,963.50	
Minor road surveys		3,885.87	
19 Vancouver Island (4 lanes) from 107th Avenue to Hammond Bay Road		12,419.45	296,328.12
Legal surveys - Project L-0099 - Rutherford Road extension in Sec.4 & 5 R4 Wellington District			1,611.69
Rights-of-way - Project P-0113 -			
Ladysmith - Carmichael		8,660.00	
Nanaimo River Road		1,600.00	
Rutherford Road Extension		1.00	
Sundry expenses		411.28	
Trans Canada Highway Nanaimo Auction Terminal Avenue to Campbell Street		155,874.00	166,546.28

NANAIMO DISTRICT - continued

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Rights-of-way - Bill 5 - Project P-0113 -		
Aulds Road	4,000.00	
Chemainus Road	4.00	
Gabriola Ferry Terminal	700.00	
Ladysmith-Carmichael	283,191.02	
Plecas Road	150.00	
Rutherford Road extension	1,060.87	
Sundry expenses	7,010.83	
Trans Canada Highway Nanaimo Auction-Terminal avenue to Campbell Street	3,232.64	
Trans Canada Highway Westdowne Road, Ladysmith	6,473.35	305,822.71
Construction -		
Roads - Project C-2901 - Island Highway 19, reconstruction form Lantzville to Craig's Crossing (8.87 miles)		2,930,289.52
Highway Safety - Project C-0204 -		
Shoulder widening, Gould Road	8,285.42	
Shoulder widening, Holden Corso Road	6,269.50	
Shoulder widening, North Road	8,788.15	
Shoulder widening, Woodbank Road	8,906.45	
Shoulder widening, Yellowpoint Road	11,999.10	44,248.62
Signals, lighting etc. -		
Project E-0556 - Lighting installation Route 1, Woodhouse to Campbell Street, Nanaimo	50,118.00	
Project E-0560 - Traffic signal and lighting revision, Route 19 at Rutherford Road, Nanaimo	52,653.25	
Project E-7961 - Traffic signal and lighting installation/revision Route 19 at Brechin Road, Departure Bay Road and Estevan Road, Nanaimo	59,391.63	162,162.88
Bridges - Project B-1336 - Cedar Bridge over Nanaimo River 116		1,263.90
Ferries - Project H-1377 - Gabriola Ferry (M.V. Quinitsa), rebuild propellor units and construct protection cage		367,397.72
Ferry Landings - Project B-1360 - Gabriola Ferry Terminal, ramp tower pile repairs		1,447.60
Total, Nanaimo District		8,475,889.80

NELSON-CRESTON DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0021 - Lardeau area roads, upgrade and pave		75,000.00	
Project C-0030 - Creston-Erickson Road 67, reconstruction		50,000.00	
Project C-0031 - Creston District roads, new construction and reconstruction		149,946.28	
Project C-0131 - Minor Betterments 80/81, miscellaneous		130,999.50	
Project C-0134 - Minor Betterments 80/81, miscellaneous		158,218.98	
Project C-0139 - Minor Betterments 80/81, District roads, shape and stabilize		171,800.00	
Project C-2559 - Southern Trans Provincial Highway 3A, Nelson-Balfour, reconstruction		174,515.25	
Project C-3740 - Nakusp Hot Springs, reconstruct		50,000.00	
Project C-4147 - Red Mountain Road, reconstruct and pave		50,000.00	
Project C-4488 - Highway 6, Nelson Nelway section, realignment at Black Bluffs		424,999.50	
Project D-0009 - Rest areas upgrading Shelter Bay, Galena Bay and Needles		55,793.76	
Project D-4272 - Rest area upgrading, Fauquier, Royal Creek, Coyes Hill and Summit Lake		34,000.00	
Project D-4273 - Gravel Pit reclamation, Lebadho, Boulder, Meadow Creek and Sproule Creek		50,278.73	
Project V-0706 - Secondary Highway 275B, Creston-Erickson Road, Town of Creston, 16th and 17th Avenue		23,187.40	1,598,739.40
Day Labour - Bill 5 - Roads -			
Project C-0021 - Lardeau area roads, upgrade and pave		86,550.42	
Project C-0030 - Creston-Erickson Road 67, reconstruction, drainage and paving		49,843.56	
Project C-0131 - Minor Betterments 80/81, miscellaneous		100,000.00	
Project C-0501 - Southern Trans Provincial Highway 3A, Taghum Bridge approaches, new construction		175,000.00	
Project C-0502 - Nelson District roads, Nelson area, reconstruction		49,919.15	
Project C-0503 - Nelson District roads, Winlaw area roads, widen and improve		50,000.00	
Project C-0504 - Nelson District roads, Salmo area roads, widen and improve		50,000.00	
Project C-0506 - Kan Creek Bridge, replace with multiplate		22,591.24	
Project C-0508 - Nakusp area roads, upgrade and pave		7,796.20	
Project C-0515 - Southern Trans Provincial Highway 3, Salmo-Creston section and Southern Trans Provincial Highway 3A, Kootenay Bay section, shouldering		59,000.00	
Project C-0516 - Southern Trans Provincial Highway 3, Salmo-Creston section, avalanche tower modifications		24,437.46	
Project C-0517 - Pilot Bay Road 255, reconstruction		50,000.00	

NELSON-CRESTON DISTRICT - continued

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Day Labour - Bill 5 - Roads - continued			
Project C-0518 - Southern Trans Provincial Highway 3, Creston area, fencing		3,304.00	
Project C-0634 - Southern Trans Provincial Highway 3 (559R-Nelson Arterial) paving		9,997.00	
Project C-0635 - Philipoff Road, reconstruction		18,560.12	
Project C-0700 - Creston area roads, reconstruction		12,696.00	
Project C-3740 - Nakusp Hotsprings Road, reconstruction		49,902.73	
Project C-4147 - Red Mountain Road, reconstruct and pave		49,594.85	
Project C-4488 - Highway 6, Nelson-Nelway section, realignment at Black Bluffs		29,766.95	
Project N-0381 - Guardrail installation program 80/81		120,219.35	
Project N-0384 - Guardrail installation program 80/81		180,124.36	
Project N-0389 - Guardrail installation program 80/81		125,000.00	
Project W-0623 - Nelson area fencing and livestock crossing, Schedule 2 Highways		3,500.00	1,327,803.39
Day Labour - Bill 5 - Bridges -			
Project B-0311 - Walker Bridge 615		44,000.00	
Project B-0316 - Meadow Bridge 7731		19,100.00	
Project B-0317 - Russell Bridge 0317		25,000.00	
Project B-0581 - Duncan River Bridge 6444		40,000.00	
Project B-0567 - Pass Creek Bridge 4-6222		40,000.00	
Project B-0699 - Crawford Creek Bailey Bridge 2398		16,900.00	185,000.00
Day Labour - Hydro Development - Roads -			
Project C-4290 - Waneta-Nelway Road relocation of 5.8 km			5,603.00
Maintenance of roads			6,554,849.59
Snow removal			1,781,558.67
Maintenance of bridges			484,537.64
Maintenance and operation of ferries -			
Glade Ferry, operation	264,552.45		
Glade Ferry, replacement vessel work	6,549.00		
Glade Ferry, landings	9,183.99	280,285.44	
Harrop Ferry, operation	199,289.98		
Harrop Ferry, landing	18,058.91	217,348.89	
Kootenay Lake Ferry, operation	1,560,830.83		
Balfour Dock	84,818.04		
Kootenay Bay Dock	7,323.51	1,652,972.38	
Sunshine Bay dry dock		19,325.78	2,169,932.49
Surveys generally - Project L-0101 -			
Cape Horn to Corey Creek		407.91	
Creston Bypass revisions		84,049.76	
Highway 3, east of Creston		2,950.64	
Minor road surveys		52,418.72	
Nelson waterfront road from Vernon Street to Elwyn Street		3,200.93	

NELSON-CRESTON - continued

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Surveys generally - Project L-0101 - continued		
Relocation of Highway 31 and Davis Creek at Lardeau	1,271.00	
Salmo-Creston, summit revision	1,613.00	
Salmo-Meadow Siding	821.06	
Taghum-Bridge approaches	2,557.73	
6 Vernon Slocan Highway	136,238.06	
Wildlife reflector study (see also *Kootenay*)	7,489.80	293,018.61
Legal surveys - Project L-0099 -		
Avis Road Right-of-way in part of D.L. 8338 Kootenay District	999.19	
Canyon-Porthill & Creston-Rykerts Road in Part of D.L.252 Kootenay District	2,709.46	
Canyon-Porthill Road 50 D.L.'s 251 & 812 & Wellspring 213 through part D.L.251	6,826.69	
Creston Arterial 369R at 16th Avenue Drawing R3-55-1	1,594.95	
D.L.398 Kootenay District, 18 Crescent Bay and 251 Bartly Roads	13,660.89	
Explanatory Plan of part of Block B Plan 2049 D.L.1238 Kootenay District (adjacent to Highway 6 Nelson-Salmo Sec.)	90.00	
Hagey Road 156, Lansville Road 33 through parts of Sec.6 D.L.'s 251 and 812 Kootenay District	3,864.48	
Highway 6 through D.L.11722 and 14974 Kootenay District	5,100.00	
67 Creston-Erickson W. Bdy. L812 to E.Bdy. E 1/2 Blk 4 Plan 730-B etc.	8,084.60	
Southern Trans Provincial Highway Creston Bypass & Helen Road Blk. 21 Plan 698 D.L.892	1,708.35	44,638.61
Rights-of-way - Project P-0113 -		
Abbey Road 404 and Canyon-Porthill Road 50	2,101.00	
16th Avenue intersection	7,516.50	
Cook Street Bypass	159,750.32	
Creston Bypass	127,263.40	
Creston-Erickson Road 67	20,924.30	
Kaslo-Lardeau Highway 31	1,200.00	
Sundry expenses	94.19	
Southern Trans Provincial Highway 3, Meadows-Salmo	15,480.00	334,329.71
Rights-of-way - Bill 5 - Project P-0113 -		
190 Adshead Road	2,108.04	
Arrowcreek West Road 7	5,515.00	
16th Avenue Intersection	150.00	
Claybrick Road 71	2,044.70	
Cook Street Bypass	131,803.50	
Cory Road 63	4,802.00	
Creston Bypass	459,130.23	
Creston Erickson Road 67	4,773.45	
Filipoff Road 149	1,875.00	
Fisherman's Pit Road	1,012.00	
Galena Farm Road 110	1,969.00	
Helen Road 144	5,859.00	
Howser Station 143	2,700.00	

NELSON-CRESTON - continued

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Rights-of-way - Bill 5 - Project P-0113 - continued		
Lakeview Road 198	2,741.59	
Lewis Road 457	15,948.75	
Nelson-Balfour Highway 3A	25,362.00	
Pilot Bay Road 255	64,165.60	
Red Mountain Road 231	1.00	
Sesame Street 67	300.00	
Seymour Road 387	1.00	
Short Road 308	12,937.70	
Silver King Road 310	471.00	
Slocan River Road	5,214.40	
South Fork Salmo Highway	1,140.00	
Sundry expenses	2,674.91cr.	
Upper Passmore Road 233	3,235.20	
Wills Road 481	1.00	752,586.25
Construction -		
Roads - Project C-2317 - Southern Trans Provincial Highway 3, reconstruction South Fork-Salmo (9.54 miles)		2,028,567.14
Highway Safety - Project C-0204 -		
Re-shoulder, widen and pave shoulder, Route 3A from 6 Mile Lake Road to Heddle Road	26,876.00	
Shoulder widening on Route 6 and Arterials 88R and 291R	23,531.00	50,407.00
Roadside development - Project D-0098 - Landscape development of Salmo Bypass, Highway 3, Salmo		59,616.06
Signals, lighting etc -		
Project E-0603 - Signal and lighting installation, Route 3A (Front Street), at Hall Street, Nelson	14,738.72	
Project E-0614 - Lighting installation Route 3A at Balfour Ferry Landing, Balfour	12,937.00	27,675.72
Bridges -		
Project B-0939 - Taghum Bridge, Southern Trans Provincial Highway 3A, deck	957,478.52	
Project B-1200 - Woodchuk Bridge and Erie Creek Bridge, Highway 6	313,291.26	1,270,769.78
Ferries - Project H-0256 - M. V. Balfour, Kootenay Lake Ferry, re-engining		388,976.32
Ferry Landings - Project B-1390 - Balfour Ferry Terminal, marine structure replacement		118,989.41
Surfacing -		
Project S-3101 - Highway 3, Salmo to 8.05 km south, Burnt Flats to 13.5 km east and miscellaneous work on the Salmo-Creston Skyway and Highway 6: Burnt Flats to Nelway (31.90 km)	1,924,760.46	

NELSON-CRESTON - continued

	$	$
Surfacing - continued		
Project S-3401 - Broadway Street, Village of Nakusp, storm sewer, curb and gutter and paving, Nelson Avenue, 0.36 miles and resurfacing Highway 23 from Broadway to Kuskanax Creek 1.00 miles	1,062.53	
Project S-3402 - Aggregates in stockpile (see also Kootenay, Shuswap-Revelstoke, Rossland-Trail)	57,817.04	
Project S-3901 - Highway 3 and Highway 21, Creston to Blazed Creek and Creston to Porthill (42.4 km)	2,222,949.56	4,206,589.59
Surfacing - Bill 5 - Project S-0707 - Highway 3, Creston 16th Avenue and Canyon Street, curb, gutter, sidewalk, utility and storm sewer relocation, Town of Creston		46,116.60
Total, Nelson-Creston District		23,730,304.98

NEW WESTMINSTER DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81, miscellaneous		8,527.43	
Project C-0122 - Minor Betterments 80/81, miscellaneous		303.47	8,830.90
Maintenance of roads			40,409.32
Snow removal			2,615.04
Maintenance of bridges			12,100.00
Surveys generally - Project L-0101 -			
Aerial mapping, survey and design			
Byrne-Queensborough 4 lane (see also Burnaby-Edmonds)		5,609.47	
Annacis Island Crossing of Fraser River		5,328.64	
Marine Way-Boundary Road to Byrne		38,609.08	49,547.19
Surveys generally - Bill 7 - Project L-0558 -			
Highway 10, Queensborough (see also Delta)		5,923.23	
Marine Way, Section 2 (see also Delta)		7,126.94	
Westminster Highway (see also Delta)		4,347.96	17,398.13
Legal surveys - Project L-0099 - Highway 99, north approach Pattullo Bridge			2,209.50
Rights-of-way - Project P-0113 - Sundry expenses			3,510.41
Rights-of-way - Bill 5 - Project P-0113 - Sundry expenses			18,480.62
Construction -			
Roads - Bill 7 - Project C-0598 - Fraser River Crossing, supply and stockpiling of dredged material from the Fraser River (see also Delta)			196,155.27
Signals, lighting etc. - Project E-0279 - Lighting revision, Route 1A/99A Pattullo Bridge (see also Surrey)			38,410.33
Geotechnical and materials - Project G-0038 - Annacis Crossing, geotechnical investigations (see also Delta and Richmond)			77,853.36
Geotechnical and materials - Bill 7 - Project G-0038 - Annacis Crossing, geotechnical investigations (see also Delta and Richmond)			73,241.14
Planning - Project O-1188 - Fraser River Crossing Project Study (see also Delta and Richmond)			44,601.62
Planning - Bill 7 - Project O-1188 - Fraser River Crossing Project Study (see also Delta and Richmond)			267,816.66
Total, New Westminster District			853,179.49

NORTH ISLAND DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0122 - Minor Betterments 80/81, miscellaneous		910.40	
Project C-0155 - Minor Betterments 80/81 Hyde Creek, Nimpkish Heights, regravel	54,511.92		
Miscellaneous	82,280.54	136,792.46	
Project C-0196 - Highway 19 at Ocean Grove, widen and re-align		246,116.54	
Project C-0199 - Sointula Streets, Malcolm Island, pre-mix pave		48,876.75	432,696.15
Day Labour - Bill 5 - Roads -			
Project C-0196- Highway 19 at Ocean Grove, widen and re-align		247,626.16	
Project C-0546 - Beasley and Gorge Harbour Roads, pave		57,314.78	
Project C-0549 - Western Mines Road, log crib construction		22,077.78	
Project C-0602 - Dogwood Street, District of Campbell River, pave		22,214.44	
Project C-0622 - Arterial Highway 507R, Campbell Way, Port McNeill, widen shoulders		30,122.81	
Project N-0398 - Guardrail installation program 80/81		22,133.79	401,489.76
Day Labour - Bill 5 - Bridges -			
Project B-0335 - Lamonte Bridge 1188			31,023.14
Maintenance of roads			2,004,340.08
Snow removal			356,647.09
Maintenance of bridges			138,617.46
Maintenance and operation of ferries -			
Alert Bay Ferry		1,413,257.95	
Cortes Island Ferry		809,103.55	
Quadra Island Ferry		2,273,608.81	4,495,970.31
Surveys generally - Project L-0101 -			
Coal Harbour access-off Highway 19 near Port Hardy Lamonte Bridge site plan		3,611.77	
Highway 28, Buttle Lake site plan at Buttle Narrows		2,597.47	
Highway 19 (Port Hardy-Port McNeill) Cluxewe Bridge site plan		492.44	
Island Highway north of Campbell River		100,492.63	
Minor road surveys		26,166.96	
Mud Bay-Menzies Bay		118,521.70	
Port Hardy curb and gutter		329.58	
Sachts Bridge-Sayward, Courtenay		4,830.53	
Willow Point-Campbell River		49,156.67	306,199.75
Legal surveys - Project L-0099 -			
Island Highway through N.E.1/4 Sec.34 Tp4 Comox District		4,431.20	

NORTH ISLAND - continued

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Legal surveys - Project L-0099 - continued		
Plan of Statutory Right-of-way for Highway through Lot 3 Plan 29131 and Lots A & B Plan 28075 of D.L. 178 Comox District, Island Highway	678.80	
Sutil Point Road through remainder of N.E.1/4 Section 3, Sayward District, Cortes Island	1,550.30	
Whaletown Road through Plans 1593-R and 867-R Section 35, Sayward District, Cortes Island	570.70	7,231.00
Rights-of-way - Project P-0113 -		
Hyde Creek Road	1.00	
Island Highway 19	2,052.02	
Sayward Road to Keta Summit	2,864.50	
Shears Road 1100	1.00	4,918.52
Rights-of-way - Bill 5 - Project P-0113 -		
Alert Bay Ferry Terminal	60,000.00	
Carlson-Hyacinth Bay Road	11,533.82	
Hawkins Road 208	200.00	
Hyde Creek Road	1.00	
Island Highway 19	24,767.00	
Island Highway-Bear Cove Access	5,610.00	
Island Highway 19, Port Hardy Airport to ferry approach	33,500.00	
Red Granite Road 743	898.00	
Saratoga Road 680	1,595.00	
Sutil Point Road 33	3,485.00	141,589.82
Construction -		
Roads -		
Project C-2584 - Eve River-Tsitika River, Vancouver Island Highway	165,660.45	
Project C-2585 - Tsitika River-Woss Camp, Vancouver Island Highway	24,522.99	
Project C-3537 - Highway 19, road access to new Bear Cove Ferry Terminal, clearing and grubbing (3.341 km)	24,963.12	
Project C-3718 - Island Highway, Port Hardy Airport to Port Hardy (5.76 miles)	710,927.98	
Project C-4550 - Nimpkish-Zeballos-Fair Harbour-Gold River Road, (Ministry of Forests charges)	41,482.46	
Project C-4551 - Head Bay Forest Road (Ministry of Forests charges)	140,492.95	1,108,049.95
Roads - Bill 5 -		
Project C-4550 - Nimpkish-Zeballos-Fair Harbour-Gold River Road (Ministry of Forests Charges)	39,391.26	
Project C-4551 - Head Bay Forest Road (Ministry of Forests Charges)	192,821.59	232,212.85
Signals, lighting ecc. - Project E-0605 - Lighting installations, Route 19 at various intersections, Port Hardy		41,318.81

NORTH ISLAND - continued

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Construction - continued		
Bridges -		
Project B-1267 - Upper Glenlion River Bridge 2612, Island Highway	9,459.74	
Project B-1276 - Lower Quatse River Bridge 2613, Island Highway Quatesi Creek Bridge 2704, Bear Cove Access Road	178,575.06	
Project B-1329 - Port Alice Bridge 2, 7662 Port Alice Road	228,520.03	
Project B-1385 - Repairs and modifications to steelwork, Nimpkish River Bridge 2162, Kitimat River Bridge 1480 and Hirsch Creek Bridge 1478 (see also Skeena)	24,965.33	441,520.16
Ferries -		
Project H-0255 - Quadra Queen, Quadra Island Ferry, re-engining & generators	387,212.00	
Project H-1376 - Quadra Island Ferry, new 70 car ferry	70,704.02	457,916.02
Ferry Landings -		
Project B-0559 - Quathiaski Cove Ferry Terminal, replace starboard dolphin	76,995.13	
Project B-1384 - Quathiaski Cove Ferry Terminal (Quadra Island), tie-up berth	230,357.37	
Project B-1391 - Campbell River Ferry Terminal, 2nd berth	34,379.71	341,732.21
Surfacing - Bill 5 - Project S-0641 - Port Alice to junction of Island Highway 19		2,065.07
Total, North Island District		10,945,538.15

NORTH PEACE RIVER DISTRICT

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Day Labour - Roads -			
Project C-0143 - Minor Betterments 80/81 Miscellaneous improvements in the Fort St. John Highway District	273,868.00		
Area A, miscellaneous improvements	55,173.00		
Road 192 Area B, miscellaneous improvements	56,944.00	385,985.00	
Project C-0165 - Miscellaneous feeder roads in the Fort St. John Highway District, prepare for paving		100,000.00	
Project C-0166 - School bus and farm roads in the Fort St. John Highway District, reconstruction		150,000.00	
Project C-0167 - Farm access road assistance in the Fort St. John Highway District		22,000.00	
Project C-0168 - Miscellaneous roads in the Fort St. John Highway District, road stabilization		57,000.00	
Project C-4191 - Miscellaneous roads in the Fort St. John area, gravelling		100,000.00	
Project V-0425 - Secondary Highway 252B, Beryl Prairie Road (Brenot Creek), District of Hudson's Hope		31,095.63	
Project V-0791 - Secondary Highway 252B, Beryl Prairie Street, District of Hudson's Hope		45,126.00	891,206.63
Day Labour - Bill 5 - Roads -			
Project C-0165 - Miscellaneous feeder roads in the Fort St. John Highway District, prepare for paving		205,014.58	
Project C-0166 - School bus and farm roads in the Fort St. John Highway District, reconstruction		444,992.95	
Project C-0167 - Farm access road assistance in the Fort St. John Highway District		50,580.50	
Project C-0168 - Miscellaneous roads in the Fort St. John Highway District, road stabilization		47,836.69	
Project C-0449 - Highway 97, Alaska Highway, prepare for paving		295,634.96	
Project C-0450 - Miscellaneous roads in the Fort Nelson area, reconstruction		69,288.06	
Project C-0451 - Student summer employment program in the Fort St. John Highway District		39,846.89	
Project C-0452 - Miscellaneous highways in the Fort St. John Highway District, right-of-way clearing		49,164.62	
Project C-0522 - Miscellaneous roads in the Fort St. John Highway District, rip-rap and erosion control		62,303.00	
Project C-0563 - Lowering of drainage ditch, Alaska Highway, Fort St. John		165,750.42	
Project C-0662 - Road 113-Cecil Lake Road, Beatton Hill, slide repair		60,300.00	
Project C-4191 - Miscellaneous roads in the Fort St. John area, gravelling		677,336.63	
Project N-0432 - Guardrail installation program 80/81		46,156.56	
Project W-0359 - Fencing Schedule 2 Highways		37,991.02	2,252,196.88

NORTH PEACE RIVER DISTRICT - continued

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Day Labour - Bill 5 - Bridges -		
Project B-0322 - Crystal Springs Bridge 7191	101,468.72	
Project B-0523 - Rosefield Bridge, reconstruction	31,752.38	133,221.10
Maintenance of roads		3,370,673.92
Snow removal		1,166,081.00
Maintenance of bridges		227,314.49
Maintenance and operation of ferries - Fort Nelson Hoverlift		362,883.76
Surveys generally - Project L-0101 -		
Buick Creek north Fort St.John	108.16	
Fort Nelson-Fort Simpson Highway from Alaska Highway to North West Territory Boundary (part of Northern Package)	315.31	
Fort St.John, Alaska Highway 88th Street to McKenzie Avenue, North Peace River	62,627.98	
Highway 29 Hudson's Hope Highway from Hudson's Hope-Bear Flat	403.00	
Minor road surveys	81,158.87	
Site plan and approaches, Cypress Creek	861.20	145,474.52
Legal surveys - Project L-0099 -		
Alaska Highway Mile 83 to Mile 92 section, Peace River District	8,466.93	
Alaska Highway Mile 274 to 278.2, Peace River District	4,650.69	
Alaska Highway Mile 278.2 to Mile 283	9,138.65	
Alaska Highway Mile 283 to Mile 293	9,555.40	
Beatton River Road 151 adjacent to D.L.981 Peace River District	2,903.50	
Reference Plan of Parts of NW 1/4 Sec. 31 Tp83 R18 and NE 1/4 Sec.36 Tp83 R19 W6M 100th Street widening Peace River District	5,388.27	40,103.44
Rights-of-way - Project P-0113 -		
Road 113	1,100.00	
Road 117	20,880.00	
Road 171	898.00	22,878.00
Rights-of-way Bill 5 - Project P-0113 -		
Alaska Highway Mile 301-321	19,955.50	
Farrell Creek Community Parish Road 115	6,768.52	
Fort St.John curb and gutter	3.00	
Relocation of Alaska Highway	1,545.74	
Road 117	4,231.00	
Road 141	215.05	
Road 171	364.00	
Road 193	325.00	
Road 249	911.34	
Road 252	968.00	
Road 252A	1,928.00	
Road 257	357.75	
Road 267	60.00	
Road 284	892.08	38,524.98

NORTH PEACE RIVER DISTRICT - continued

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Construction -			
Roads - Project C-4484 - Liard Highway construction north of Fort Nelson River (miles 25-45)			187,803.57
Roads - Bill 5 - Project C-4484 - Liard Highway, construction north of Fort Nelson River (miles 25-45)			5,029,243.04
Signals, lighting etc. -			
Project E-0106 - Lighting installation Alaska Highway at Taylor		36,424.28	
Project E-0554 - Traffic signal installation, 100th Avenue at 106th Street, Fort St.John		10,336.76	
Project E-0572 - Lighting installation, Route 97 at Road No.120, Charlie Lake School crossing, Charlie Lake		7,206.00	
Project E-7943 - Signal and lighting installation Centre (100th) Avenue at 96th Street, Fort St.John		10,741.00	64,708.04
Bridges - Bill 5 - Project B-0286 - Petitot River Bridge 2616, Fort Nelson-Fort Simpson Highway			2,947,092.92
Ferries - Project H-1100 - Fort Nelson River crossing, Hover Ferry			496,031.11
Surfacing -			
Project S-0084 - Miscellaneous surface seal			
Road graded seal, Pine Tree Lake-Deep Creek	851,394.11		
Road graded seal, Stikine River, Tanzilla River	913.00	852,307.11	
Project S-4401 - Miscellaneous roads, Fort St.John (77.8 km)		2,445,866.77	
Project S-6575 - Fort St.John, storm sewer, curb and gutter and paving		6,065.90	3,304,239.78
Total, North Peace River District			20,679,677.18

NORTH VANCOUVER-CAPILANO DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0117 - Minor Betterments 80/81, miscellaneous		31,469.65	
Project C-0122 - Minor Betterments 80/81, miscellaneous		64,008.91	95,478.56
Maintenance of roads			213,673.74
Snow removal			26,040.45
Maintenance of bridges			57,042.13
Surveys generally - Project L-0101 - Upper levels control line			109,372.83
Construction -			
Bridges -			
Project B-1172 - Lion's Gate Bridge, major repairs to North Cable bent		73,414.71	
Project B-1268 - Jones Avenue Pedestrian Overpass 1602 Trans Canada Highway		43,977.31	117,392.02
Total, North Vancouver-Capilano District			618,999.73

NORTH VANCOUVER-SEYMOUR DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0117 - Minor Betterments 80/81, miscellaneous			20,766.78
Maintenance of roads			426,307.09
Snow removal			51,733.69
Maintenance of bridges			25,036.49
Surveys generally - Project L-0101 -			
Mapping and design study, North Shore transportation study, Mountain Highway interchange and Keith Road to Mt. Seymour Connection		65,110.59	
Minor road surveys		8,920.07	74,030.66
Rights-of-way - Project P-0113 - Main Street, Mountain Highway to Highway 1			3,212.00
Rights-of-way - Bill 5 - Project P-0113 -			
Fern Street-Seymour River Project		139,249.17	
Main Street-Mountain Highway to Highway 1		2,959.00	142,208.17
Construction -			
Roadside development - Project D-4301 - Trans Canada Highway 1, Upper Levels, Capilano River to Mountain Highway, Landscape development			328,493.48
Surfacing - Project S-1118 - Fern Street to Second Narrows Trans Canada Highway 1 and Main Street, Mountain Highway to Highway 1			234,339.05
Total, North Vancouver-Seymour District			1,306,127.41

OAK BAY-GORDON HEAD DISTRICT

	$	$	$
Maintenance of roads			2,044.99
Total, Oak Bay-Gordon Head District			2,044.99

OKANAGAN NORTH DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0020 - Highway 6, Monashee, reconstruct		200,000.30	
Project C-0125 - Minor Betterments 80/81			
Area A, gravel various roads	73,788.34		
Miscellaneous	123,926.55	197,714.89	
Project C-0130 - Minor Betterments 80/81		33,593.63	
Project C-0134 - Minor Betterments 80/81, miscellaneous		54,550.78	
Project C-0267 - Highway 6, Vernon-Slocan, District boundary 40.33 km to bottom of Mine Hill 65.33 km, construction, prepare for paving, gravel		287,498.60	
Project C-2660 - Westside Road (Kelowna), reconstruct		106,035.90	
Project C-2658 - Westside Road, reconstruction, paving preparation, gravel		161,842.51	
Project D-4269 - Rest area upgrading (Last Spike, Lost Lake, Red Hill, Carquille, Mara Lake and Nicola Lake)		10,000.00	
Project V-0674 - Secondary Highway 279B, Shuswap Avenue, Village of Lumby		12,837.62	1,064,074.23
Day Labour - Bill 5 - Roads -			
Project C-0020 - Highway 6, Monashee, reconstruct		149,987.59	
Project C-0267 - Highway 6, Vernon-Slocan, District boundary 40.33 km to bottom of Mine Hill 65.33 km, construction, prepare for paving, gravel		177,879.16	
Project C-0462 - Miscellaneous roads in the Vernon area, paving approx.10 km, gravel and paving		96,616.13	
Project C-0463 - Crozier Junction to Pleasant Valley, construction, Okanagan Highway 97A, reconstruction, prepare for paving		113,024.46	
Project C-0464 - Genier Bridge approaches, Vernon-Slocan Highway 6, prepare site for bailey bridge		4,966.69	
Project C-0466 - Lumby-Mabel Lake Road, gravel and pave		86,248.42	
Project C-0467 - Silver Star Road 66, gravel, realign and pave		182,828.80	
Project C-0469 - Okanagan Landing Road 265, widening		111,008.75	
Project C-0470 - Highway 97, Oyama, construct left turn slot		61,543.62	
Project C-0507 - Fauquier Streets, repairing		20,000.00	
Project C-2658 - Westside Road 138, reconstruction and general improvements		132,678.98	
Project N-0375 - Guardrail installation program 80/81		21,757.65	
Project N-0384 - Guardrail installation program 80/81		16,453.57	
Project W-0346 - Fencing Schedule 2 Highways		17,288.74	1,192,282.56
Day Labour - Bill 5 - Bridges -			
Project B-0304 - Genier Bridge 6495, Highway 6, Vernon-Slocan, purchase of materials for construction		63,091.77	
Project B-0305 - Railway Bridge 448		99,853.62	
Project B-0318 - Pre-emption Bridge 851		111,600.00	274,545.39

OKANAGAN NORTH - continued

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Maintenance of roads		2,497,726.15
Snow removal		829,452.68
Maintenance of bridges		115,963.80
Maintenance and operation of ferries -		
M.V. Needles, Needles-Fauquier Ferry	917,319.50	
Arrow Park Ferry, Arrow Park	121,550.44	1,038,869.94
Surveys generally - Project L-0101 -		
Highway 6, Vernon-Slocan Highway	32,626.94	
Highway 6 in Vernon 27th Street to 32nd Avenue	10,756.93	
Highway 97 from 43rd Avenue, Vernon to 48th Avenue, Vernon	1,245.40	
Intersection of 32nd and 48th at Vernon to Swan Lake	9,495.70	
Lumby-E. Boundary Lot 2151 (Region Boundary)	3,435.45	
Minor road surveys	1,204.26	
Okanagan Highway from Oyama to Vernon	217,021.61	
Okanagan Highway 97 (Vaseaux Lake)	124,397.11	
Okanagan Highway from Vernon to Highway 97A Junction	8,212.61	
Okanagan Landing from East Side Road to Bench Road	13,272.20	
Survey from Highway 97 at Army Camp Junction of 27th Street and Highway 6, 1.30 miles-2.1 km	7,171.25	
Vernon-Slocan Highway from Vernon to Lavington	3,856.42	
Vernon, west entrance to Lumby	52,740.99	485,436.87
Legal surveys - Project L-0099 -		
Carrs Landing Road through part of section 17, Tp14, Osoyoos Division, Yale District	590.16	
31 Creighton Valley Road Highway 6 to E.Bdy. of S.W.1/4 Sec.20 Tp41 Osoyoos Division Yale District Ellison Overhead	3,962.77	
222 Wilson Jackson Road through Part NE1/4 Sec.19 and Sec.30, Tp5, Osoyoos Division Yale District	1,301.98	
Okanagan Highway Right-of-way through fractional East 1/2 Section 16 Township 9 Osoyoos Division Yale District Vernon South	2,300.00	
Plan of Subdivision of part of S1/2 of SE1/4 Sec.33 Township 43 Osoyoos Division Yale District Sigalet Gravel Pit District Plan 78/1185A	977.50	
Stat. R/W of Vernon-Slocan Highway 6 Lumby to E. Bdy. D.L.17 Osoyoos Division Yale District	3,857.17	
Woodsdale, through part of Sec.22 Tp20 and D.L.169 Osoyoos Division Yale District	1,510.61	14,500.19
Rights-of-way - Project P-0113 -		
Dority Road 65	1,306.00	
Highway 97, Oyama	190,708.70	
Vernon-Slocan Highway 6	6,720.00	198,734.70

OKANAGAN NORTH - continued

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Rights-of-way - Bill 5 - Project P-0113 -		
Arrow Park Ferry Landing	1.00	
Baker-Hogg Road 142	31,413.00	
Calder Road 50	899.80	
Commonage Road 30	3,400.12	
Creighton Valley Road 31	6,607.50	
Enderby Indian Reserve 2 re: Spallumcheen Band	1,200.00	
Goose Lake Road 48	*1,680.00*	
Gravel Pits	15,000.00	
Highway 6-Lumby Vernon Street	159,118.30	
Highway 97-Oyama	95,996.38	
MacDonald Road 120	2,925.00	
Okanagan Highway 97: Vernon-Swan Lake	1,500.00	
Oyama Road	4,585.00	
Siwash Creek Road 123	3,290.00	
Vernon-Slocan Highway 6	13,620.00	
Westside Road, Caesar's Landing to Nahun	80,465.00	
Whitevale Road 139	3,799.10	425,500.20
Construction -		
Roads -		
Project C-3188 - Okanagan Highway 97, Reid's Corner to Ellison Lake (4.14 miles) and 7 miles N. Kelowna	244.80	
Project C-3422 - Okanagan Highway 97 reconstruction Vernon to Swan Lake Junction	2,651,142.27	2,651,387.07
Highway safety - Project C-0204 -		
Construct and pave sidewalk, Canyon Road to Drill Hall, Enderby	4,000.00	
Gravel bus-pullouts, Lumby	977.70	4,977.70
Signals, lighting etc. - Project E-7762 -		
Lighting installations, Route 97, Stickle Road to Route 97A (Swan Lake Junction)		39,066.35
Bridges - Bill 5 - Project B-0039 -		
Kettle River Bridge 6503, Monashee *Highway 6*		215,353.26
Surfacing -		
Project S-0084 - Miscellaneous surface seal Vernon-Deep Creek Road (13.6 km) km 17.9 toward Duchet	5,876.56	
Project S-2301 - Monashee Highway 6, Inonoaklin Crossing to base of Mine Hill (31.8 km)	734,515.29	740,391.85
Surfacing - Bill 5 - Project S-2301 - Monashee Highway 6 Inonoaklin Crossing to the base of Mine Hill (31.8 km)		1,198,735.62
Total, Okanagan North District		12,986,998.56

OKANAGAN SOUTH DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0130 - Minor Betterments 80/81		146,229.16	
Project C-2660 - Westside road (Kelowna), reconstruct		18,712.22	
Project C-3805 - Miscellaneous roads Kelowna City, reconstruct and paving		84,583.83	249,525.21
Day Labour - Bill 5 - Roads -			
Project C-3805 - Miscellaneous roads Kelowna City, reconstruct and paving		279,189.87	
Project C-4163 - Kelowna and Winfield miscellaneous roads, gravelling, ditching, shouldering and repaving		119,203.84	
Project W-0347 - Fencing Schedule 2 Highways		7,884.25	406,277.96
Maintenance of roads			1,231,117.95
Snow removal			536,035.44
Maintenance of bridges			132,856.08
Surveys generally - Project L-0101 -			
Greater Kelowna Road Grid system		12,666.86	
Harvey Avenue (Kelowna)		39,515.93	
Highway 33 from Highway 97 to McKenzie Road		9,089.77	
Highway 33 Rutland from Highway 97 to McKenzie Road		56,764.65	
Kelowna Couplet		535.70	
Minor road surveys		46,997.44	
Westbank-Kelowna impact study		1,553.90	167,124.25
Legal surveys - Project L-0099 -			
Drainage Easement over part of Lot 2 Plan 10360 Sec.15 Township 20 Osoyoos Division Yale District Drawing 29-256-EA-R		180.00	
Glenmore Street Extension S. Bdy. NW1/4 Sec.6 Tp26 Casorso Road		6,100.53	
Okanagan Highway and Burtch Road R/W in part of Lot 43 Plan 415 D.L.137 Osoyoos Division Yale District		1,088.50	
Okanagan Highway Right-of-way Peachland LTO Plan H750		500.50	
Pixton, through NW1/4 Sec.21 Tp20 Osoyoos Division Yale District		67.70	
Plan of Highway Right-of-way through Canadian National Railways Right-of-way Plan A 357 D.L.1190 Osoyoos Division Yale District Ellison Overhead		567.20	
Road Right-of-way within Lot 60 Plan 808 D.L.7 Osoyoos Division Yale District, District Drawing 29-308, Sawmill road		443.72	8,948.15
Rights-of-way - Project P-0113 -			
Camp Road		10,000.00	
Glenmore Street extension		37,400.00	
Glenmore Street upgrading		181,958.35	
Highway 97, South of Reid's Corner		6,660.00	
Kelowna-Westbank		73,308.67	
Lake Pine Road cul-de-sac		1,179.36	
Lewis Road		5,870.00	316,376.38

OKANAGAN SOUTH DISTRICT - continued

	$	$
Rights-of-way - Bill 5 - Project P-0113 -		
Belgo Road	4,200.00	
Glenmore Street extension	409,882.00	
Glenmore Street upgrading	135,656.78	
Harvey Avenue widening	1,002,211.13	
Highway 97 at Westbank couplet	324,400.00	
Highway 97-Winfield	8,698.70	
Kelowna-Westbank	908,862.85	
Lake Pine Road cul-de-sac	2,500.00	
Okanagan Highway 97 Spall Road	2.00	
250 Pasthill Lake Road	7.00	
Sawmill Road improvements	4,500.00	
Sexsmith Road	1.00	
Stevens Road	18,105.00	
Tyndall Road 633	4,226.00	
Westside Road	1.00	
Woodsdale Road	660.00	
Woods Lake Bottom Road	122,078.03	2,945,991.49
Construction -		
Roads - Project C-4485 - Okanagan Highway 97, Westbank-Kelowna, construction section 2		2,956,465.26
Signals, lighting etc.		
Project E-0104 - Signal and lighting replacement Route 97 (Harvey Ave.) at Glenmore Street, Kelowna	8,483.00	
Project E-0420 - Signal and lighting installation, Route 97 Bartley Road to Hudson Road/Westlake Road, Kelowna/ Westbank	44,595.85	
Project E-7924 - Intersection lighting Route 97, Cary Road to Stafford Road, Kelowna	4,754.65	
Project E-7963 - Signal and lighting installation Route 33 at Gertsmar Road, Kelowna	2,161.30	
Project E-7973 - Signal and lighting installation Route 97 at Glenrosa, Westbank	1,418.70	
Project E-7974 - Signal revision Route 33 at Hollywood, Kelowna	309.40	61,722.90
Bridges -		
Project B-0688 - Okanagan Lake Bridge, proposed 4 laning	254,179.60	
Project B-1162 - Ellison Overhead widening 1514, Okanagan Highway	983.86	
Project B-1275 - Okanagan Lake Bridge, installation of anchor cable jacks	32,420.30	287,583.76
Surfacing -		
Project S-2918 - Highway 33 and Big White Road (22.45 km) (see also Boundary-Similkameen)	4,187.21	
Project S-2928 - Highway 97, Kelowna, Princess Street to South of Sexsmith Road (8.38 km)	844.50	
Project S-2938 - Glenmore Street upgrading, City of Kelowna (1.1 km)	1,050,032.20	1,055,063.91
Total, Okanagan South District		10,355,088.74

OMINECA DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0144 - Minor Betterments 80/81, miscellaneous		258,088.52	
Project C-0150 - Minor Betterments 80/81		34,226.75	
Project C-0151 - Minor Betterments 80/81		213,215.88	
Project C-0169 - Highways 16 and 27, shoulder widening and stabilization		27,299.49	
Project C-0170 - Student summer employment program		8,721.00	
Project C-0182 - Keefe's Landing Road, prepare 20.0 km for pavement		416,215.98	
Project C-0276 - Access road construction to Moose Crossing Pit		89,366.62	
Project C-3039 - Tachie Road, reconstruction		50,000.00	
Project C-3332 - Stella Road (east end), reconstruction		48,290.63	
Project C-4496 - Kenny Dam Road, improvements		49,266.36	
Project D-0570 - Cluculz Creek rest area, Highway 16, 34 km east of Vanderhoof, portable washroom building		14,215.00	1,208,906.23
Day Labour - Bill 5 - Roads -			
Project C-0169 - Highway 16 and 27, shoulder widening and stabilization		46,486.00	
Project C-0170 - Student summer employment program		31,641.75	
Project C-0182 - Keefe's Landing Road, prepare 20.0 km for pavement		384,960.55	
Project C-0453 - Vanderhoof Arterial, construct wheel chair ramps		451.50	
Project C-0455 - Miscellaneous farm roads, improve alignment, ditch and gravel		98,136.41	
Project C-0553 - New Nechako Bridge, construct approaches		787,041.69	
Project C-0591 - Lakeshore Drive, Fort St. James, paving		11,768.96	
Project C-3039 - Tachie Road, reconstruction		121,718.91	
Project C-4343 - Highway 16, construction of turn slots, Tweedie Avenue, Houston		64,952.96	
Project C-4496 - Kenny Dam Road, improvements		487,431.54	
Project C-4497 - Germansen Landing Road, gravelling		37,252.98	
Project N-0393 - Guardrail installation program 80/81		34,608.55	
Project N-0433 - Guardrail installation program 80/81		32,981.18	
Project W-0360 - Fencing Schedule 2 Highways		17,536.51	
Project W-0363 - Fencing Schedule 2 Highways		9,139.81	
Project W-0364 - Fencing Schedule 2 Highways		44,583.65	2,210,692.95
Day Labour - Bill 5 - Bridges -			
Project B-0610 - Nechako River Bridge, Vanderhoof, repairs			119,968.86
Maintenance of roads			4,471,391.70
Snow removal			1,784,268.05

OMINECA DISTRICT - continued

	$	$
Maintenance of bridges		317,431.59
Maintenance and operation of ferries -		
Omineca Princess		1,387,587.98
Surveys generally - Project L-0101 -		
Burns Lake Bypass, Yellowhead Highway 16	3,366.81	
Houston-Highway 16	3,188.51	
Vanderhoof-Stuart Lake (27), Nechako River Bridge approaches	15,990.64	22,545.96
Legal surveys - Project L-0099 -		
Babine Lake Road 200 S. Bdy. D.L.5342 to N.Bdy. Blk A D.L.2511 R5, Coast District	6,641.66	
Derksen and McDonald Road through parts of Sections 22,27 and 35 Tp2 R4, Coast District	8,733.50	
Tachick Road from Highway 16 to N.Bdy. NW1/4 Sec.31 Tp3 R4, Coast District	5,434.40	20,809.56
Rights-of-way - Project P-0113 -		
Amendt Road 68 and Hamre Road 52	1.00	
Bedore Road 6	1.00	
9 Brown Road	4,890.00	
43 Francois Lake Road East	720.00	
59 Keefe's Landing Road	200.00	
Kenny Dam Road	2,756.40	
Nechako River Crossing, West of Vanderhoof	47,744.50	
Sturgeon Point Road-Smedley, McLelland, Gilbert, Grundpark and Maunders Roads	357.50	
Uncha Lake Road 122	350.00	57,020.40
Rights-of-way - Bill 5 - Project P-0113 -		
Beach Road 114	200.00	
9 Brown Road	6,650.00	
Chilco South and North, Kiel and Sturgeon Point Road	6,682.63	
Colleymount Road 21	16,851.25	
Farewell Road 148	255.00	
271 Ford Road	1.00	
43 Francois Lake Road East	7,560.00	
Hogsback, Stoller and Burger Roads	200.00	
150 Hossack Road and 321 Tamen Creek Road	25.00	
Mapes Road 116	541.15	
Nechako River Crossing, west of Vanderhoof	16,875.94	
Northern Trans Provincial Highway 16 Houston Overhead Bridge approaches	7,710.00	
Osatuik Road 178	500.00	
19 Rose Lake Cut-off Road	750.00	
Sob Lake Road 102	5,582.52	
Sturgeon Point Road-Smedley, McLelland, Gilbert, Grundpark and Maunders Roads	9,594.12	
Summit Lake Road 83	5,176.00	
Sunset Lake Road 152	2,452.00	
205 Trout Creek Road	1,430.00	
Yellowhead Highway 16	370.00	89,406.61

OMINECA DISTRICT - continued

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Construction -			
Highway Safety - Project C-0204 - Upgrade walkways and construct snow roofs, Houston Overhead Bridge			6,974.00
Signals, lighting etc. - Project E-7928 - Lighting installations Route 16 at Fraser Lake intersections, Fraser Lake			10,355.00
Bridges - Project B-1257 - Substructure: Endako Overhead 2181: Endako River Bridge 2520: Yellowhead Highway			495,185.10
Ferries - Project H-1264 - Refit Trim Dock facility and convert to a complete floating drydock at Francois Lake			939,948.07
Surfacing -			
Project S-0084 - Miscellaneous surface seal			
Crushed aggregate in stockpile, Vanderhoof District, Stellako Pit 4588	67,521.61		
Road graded seal Endako "W" boundary, Vanderhoof	225,847.82	293,369.43	
Project S-5501 - Francois Lake miscellaneous roads (Total 38.6 km)		1,763,477.06	
Project S-5518 - Village of Burns Lake, storm sewer curb and gutter and paving (1.5 miles)		387,207.69	2,444,054.18
Surfacing - Bill 5 - Project S-0414 - Miscellaneous roads, Fraser Lake area			1,070,164.57
Total, Omineca District			16,656,710.81

PRINCE GEORGE NORTH DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0140 - Minor Betterments 80/81, miscellaneous			160,307.02
Day Labour - Bill 5 - Roads -			
Project C-0437 - Student summer employment program in the Prince George Highway District		35,000.00	
Project C-0520 - John Hart Highway 97 north, patch paving		152,055.45	
Project C-3636 - Old Summit Lake South Road, upgrade		66,886.62	
Project C-4181 - Miscellaneous school bus routes in the Prince George Highway District, ditching and gravelling		15,489.07	
Project W-0356 - Fencing Schedule 2 Highways		19,528.69	288,959.83
Day Labour - Bill 5 - Bridges -			
Project B-0323 - Hungary Creek Bridge 8045			34,950.48
Maintenance of roads			1,516,317.83
Snow removal			796,789.40
Maintenance of bridges			87,100.68
Surveys generally - Project L-0101 -			
Chief Lake Road to Parsnip River		84,296.33	
Hart Highway from Prince George to Chief Lake Road Junction		41,603.20	
John Hart from Parsnip River to Pine Pass		42,806.86	
Mackenzie Townsite North		3,706.23	
Minor road surveys (see also Prince George South)		393.19	172,805.81
Legal surveys - Project L-0099 - Highway right-of-way through D.L.1574 Cariboo			3,963.80
Rights-of-way - Project P-0113 -			
Hart Highway Foothills Road to Chief Lake Road		35,000.00	
Hart Highway 97, Nechako River to Knell Road		48,578.06	
Ness Lake Road 250		400.00	
Reid Lake Road 240		8,000.00	91,978.06
Rights-of-way - Bill 5 - Project P-0113 -			
Hart Highway 97 Knell Road to Chief Lake Road		31,500.00	
Hart Highway 97, Nechako River to Knell Road		113,895.55	
John Hart Highway 97 connection between Austin Road west and Frontage Road		3.00	
Ness Lake Road 250		10,850.00	
Old Summit Lake North Road 272		4,881.60	
Reid Lake Road 240		7,593.23	168,723.38

PRINCE GEORGE NORTH DISTRICT - continued

	$	$
Construction -		
Roads -		
Project C-2842 - John Hart-Peace River Highway 97, Honeymoon Creek to D.L.8917 reconstruction	166,414.27	
Project C-3070 - John Hart Highway 97, Parsnip River Bridge to McLeod Lake Hotel	10,025.40	
Project C-3143 - Reconstruction from McLeod Lake Hotel to Crooked River Cabins (10.42 miles) on the John Hart Highway 97 and additional paving of 2.46 miles: Total 12.88 miles	2,241,390.64	2,417,830.31
Roads - Bill 5 -		
Project C-0102 - Highway 97, John Hart Highway, construction Summit Lake Bypass, km 47.33 to km 59.14	1,900,008.49	
Project C-2792 - Reconstruction Nechako River Bridge to Chief Lake Road (6.41 miles) on the Hart Highway 97	1,575,289.25	3,475,297.74
Signals, lighting etc. -		
Project E-0110 - Signal and lighting installation, Route 16 at Domano Boulevard, Prince George	31,380.80	
Project E-0424 - Advance warning sign installation, Route 97 at B.C. Rail Salmon Valley Crossing, Salmon Valley	6,569.50	37,950.30
Municipal programmes - Project O-3196 - Roadworks associated with boundary expansion by the City of Prince George (see also Prince George South)		907,500.00
Bridges - Project B-1331 - Parsnip River Bridge 1185, John Hart-Peace River Highway, guardrail removal		13,273.80
Surfacing - Project S-4101 - Miscellaneous roads west of Fraser River, Prince George area (29.3 km)		1,755,000.65
Total, Prince George North District		11,928,749.09

PRINCE GEORGE SOUTH DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0140 - Minor Betterments 80/81, miscellaneous		182,311.31	
Project C-0141 - Minor Betterments 80/81, miscellaneous		20,541.35	
Project C-0145 - Minor Betterments 80/81		181,714.85	
Project C-0171 - Tete Jaune Cache, C.N.R. underpass approaches		40,681.10	
Project C-4180 - Upper Fraser Road 458, construct, gravel and clear right-of-way		263,599.24	
Project C-4181 - Miscellaneous school bus routes in the Prince George Highway District, ditching and gravelling		180,791.34	
Project D-0010 - Rest area upgrading, general, Region 4		59,693.21	
Project D-4276 - Highway beautification, Prince George area (Prince George by-pass)		9,928.10	939,260.50
Day Labour - Bill 5 - Roads -			
Project C-0171 - Tete Jaune Cache, C.N.R. underpass approaches		131,881.43	
Project C-0437 - Student summer employment program in the Prince George Highway District		35,000.00	
Project C-0443 - Student summer employment program in the Prince George Highway District		6,538.00	
Project C-0445 - Miscellaneous school bus routes in the Quesnel Highway District, reconstruct, reshape and regravel		55,286.83	
Project C-0524 - Highway 16 at Tete Jaune Cache, machine patching		71,575.12	
Project C-0525 - Highway 16 at McBride, *F.O.B. Machine patching*		49,120.82	
Project C-0526 - Section 6 roads in the McBride Highway District, survey and draw plans		19,307.70	
Project C-0527 - Student summer employment program		17,066.06	
Project C-3678 - Whiskey Fill Road 571, road-mix pave		66,973.76	
Project C-4180 - Upper Fraser Road 458, construct, gravel and clear right-of-way		1,050,922.00	
Project C-4181 - Miscellaneous school bus routes in the Prince George Highway District, ditching and gravelling		302,186.03	
Project C-4237 - Eddie Road 522, reconstruct		68,159.92	
Project C-4239 - Miscellaneous roads in *the McBride Highway District*, gravelling and clearing		43,394.38	
Project N-0429 - Guardrail installation program 80/81		90,664.67	
Project W-0356 - Fencing Schedule 2 Highways		19,529.00	
Project W-0357 - Fencing Schedule 2 Highways		7,352.00	
Project W-0361 - Fencing Schedule 2 Highways		12,949.89	2,047,907.61
Day Labour - Bill 5 - Bridges -			
Project B-0324 - McLennan Bridge 6798			68,153.92

PRINCE GEORGE SOUTH - continued

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Maintenance of roads		5,806,005.68
Snow removal		1,983,021.66
Maintenance of bridges		762,840.20
Maintenance and operation of ferries - Isle Pierre Ferry		31,477.77
Surveys generally - Project L-0101 -		
Foothills Road Otway Road to Chief Lake Road	67,941.81	
Highway 16, Prince George Airport Hill	57,738.77	
Minor road surveys (see also Prince George North)	393.20	
Prince George 5th Avenue, interchange with Highway 97	71,930.15	198,003.93
Legal surveys - Project L-0099 -		
Pine Road 510 through D.L.'s 7353 and 7354, Cariboo District	3,311.05	
Shelby Road 559 through D.L.'s 3544 and 3547, Cariboo District	1,690.53	
Yellowhead Highway 16, Airport Hill through D.L.'s 483, 955, 2156 and 629, Cariboo District	5,383.76	10,385.34
Rights-of-way - Project P-0113 -		
Buckhorn Lake Road 123	2,630.00	
Sundry expenses	171.29	2,801.29
Rights-of-way - Bill 5 - Project P-0113 -		
Beaverley West Road 321	2,670.00	
Bowron Road 148	2.00	
Buckhorn Lake Road 123	782.00	
Carlson Road 413	2,794.75	
Channel Road 533	1,069.00	
Dewey Road west 460	1,348.58	
Fraser River Road 30	4.00	
Highway 5 & 16-Yellowhead Highway-Tete Jaune	150,000.00	
Johnson Road 131	2,619.00	
Lund Road 142	558.00	
Miworth Road 385	435.90	
Mountain View Road 437	2.00	
Patricia Boulevard	262,300.00	
Patterson Road	1.00	
Queensway Street	89,496.00	
Sundry expenses	1,896.78	
Tabor Lake East Road 4040	1.00	
Tabor Lake South Road 483	753.00	
Upper Fraser Road 458	456.00	
Wright Creek Road 265	302.00	
Yellowhead Highway 16, Prince George to Tabor Lake	7,187.50	524,678.51
Construction -		
Signals, lighting etc. -		
Project E-0593 - Lighting and flashing beacon installation Route 5 and Route 16, Tete Jaune Cache and Route 16, McBride South	21,703.00	
Project E-0613 - Signal installation and lighting revision Route 16 at Vance/Cowart Roads, Prince George	21,964.51	43,667.51

PRINCE GEORGE SOUTH - continued

	$	$	$
Construction - continued			
Municipal programmes - Project O-3196 - Roadworks associated with boundary *expansion by the City of Prince* George (see also Prince George North)			1,842,500.00
Ferries - Project H-0924 - Penny Aerial Ferry			1,446.47
Surfacing -			
Project S-0084 - Miscellaneous surface seal - Medium cover aggregate and crushed granular surfacing in stockpile *Prince George Bednesti Lake area*	20,395.51		
Shoulder seal, McBride: McBride eastward (24.6 km)	150,519.05		
Road graded seal, McBride; McBride miscellaneous roads (34.8 km)	121,852.61		
Road graded seal, McBride; Valemount southward (12 km)	122,410.70	415,177.87	
Project S-3477 - Highway 16, McBride to East of McBride (14.5 miles)		500.35	
Project S-4102 - Miscellaneous roads, Prince George area east of Fraser River (44.2 km)		1,980,461.90	
Project S-4601 - Highway 16, West Twin River Bridge-Lamming Mill Road (21.5 km)		1,726,527.65	
Project S-4618 - Highway 16, Moose River to Alberta Border (28.1 km)		8,119.50	4,130,787.27
Surfacing - *Bill 5 - Project S-0642 -* Highway 16, Tete Jeune to Moose River Bridge			16,927.99
Total, Prince George South District			18,409,865.65

PRINCE RUPERT DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0147 - Minor Betterments 80/81			209,300.54
Day Labour - Bill 5 - Roads -			
Project C-0493 - Prince Rupert and Masset Arterial, construct wheel chair ramps		14,240.24	
Project N-0390 - Guardrail installation program 80/81		8,000.21	22,240.45
Day Labour - Bill 5 - Bridges -			
Project B-0325 - White Creek Bridge			16,531.70
Maintenance of roads			1,275,553.26
Snow removal			226,024.00
Maintenance of bridges			101,554.02
Maintenance and operation of ferries -			
M.V. Kwuna		560,126.18	
Dodge Cove		13,320.00	
Misty Island		31,500.00	604,946.18
Surveys generally - Project L-0101 -			
Fairview Bay to Prince Rupert		3,396.12	
Minor road surveys		5,045.37	8,441.49
Legal surveys - Project L-0099 - Queen Charlotte City, Masset Road S. Bdy. L2799 to N. Bdy. L2798, Graham Island, Queen Charlotte District			12,522.48
Construction -			
Roads - Project C-4501 - Clearing and grubbing Prince Rupert-Ridley Island access road (Northeast Coal Development)			186,306.90cr.
Roads - Bill 5 - Project C-4483 - Prince Rupert-Ridley Island, construction Sta. 43+20.00 to Sta.110+49.447 (6.73 km)			8,815.14
Highway safety - Project C-0204 - Paved shoulders in Haida Village, Masset			5,435.00
Signals, lighting etc. - Project E-0412 - Lighting installation, Route 16 (2nd Avenue) 8th Street to McBride Street, Prince Rupert			22,275.97
Bridges - Project B-0697 - Ridley Island overhead bridge located over C.N. Rail on Prince Rupert to Ridley Island Highway, 32 m long single span pre-stressed concrete girder bridge, 10 m wide roadway, abutments on spread footage			733.96
Surfacing - Project S-5118 - Highway 16, Hays Creek to Rainbow Lake Lodge section (km 4.7 to km 28.1)(23.4 km)			52,046.09

PRINCE RUPERT DISTRICT - continued

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Surfacing - Bill 5 - Project S-0033 - Highway 16 Prince Rupert, 2nd Avenue 8th Street to McBride Street, and McBride Street, 2nd Avenue to Hays Creek			648,525.14
Total, Prince Rupert District			3,028,638.52

RICHMOND DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81, miscellaneous		6,066.60	
Project C-0122 - Minor Betterments 80/81, miscellaneous		4,552.02	10,618.62
Day Labour - Bill 5 - Roads -			
Project C-0486 - Westminster Highway, extensive machine patching			50,000.00
Day Labour - Bill 5 - Bridges -			
Project B-0299 - Middle Arm Bridge 6306		20,000.00	
Project B-0415 - Highway 99, cleaning and painting of the George Massey Tunnel		84,800.00	104,800.00
Maintenance of roads			708,467.05
Snow removal			22,308.52
Maintenance of bridges			54,961.50
Surveys generally - Project L-0101 -			
Aerial photography and subsequent aerial mapping upgrade Westminster Highway between Knight Street and Queensborough Bridge		22,140.28	
Deas Tunnel Weigh Scale		2,009.04	
Highway 95 and 5 intersection		1,985.71	
Highway 99 from Westminster Highway to Ladner interchange		68,795.14	
Minor road surveys		550.00	95,480.17
Construction -			
Highway safety - Project C-0202 - Massey Tunnel impact study, attenuator installation (see also Delta)			2,191.25
Signals, lighting etc. - Project E-0280 - Route 99, Massey Tunnel, reversible lane electrical and signing (see also Delta)			252,823.66
Geotechnical and materials - Project G-0038 - Annacis Crossing, geotechnical investigations (see also Delta and New Westminster)			44,487.63
Geotechnical and materials - Bill 7 - Project G-0038 - Annacis Crossing, geotechnical investigations (see also Delta and New Westminster)			41,852.08
Bridges -			
Project B-0627 - Knight Street Bridge(see also Vancouver South)		1,270.76	
Project B-1379 - George Massey Tunnel, Highway 99, renovations to fire and domestic water systems(see also Delta)		59,565.11	60,835.87
Planning - Project O-1188 - Fraser River Crossing Project Study (see also Delta and New Westminster)			76,813.89

RICHMOND DISTRICT - continued

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Construction - continued			
Planning - Bill 7 - Project 0-1188 - Fraser River Crossing Project Study (see also Delta & New Westminster)			461,239.80
Surfacing - Bill 5 - Project S-0035 - Highway 99 and Sea Island Highway, Oak Street to George Massey Tunnel (see also Delta)			2,304,993.54
Total, Richmond District			4,291,873.58

ROSSLAND-TRAIL DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0015 - Ootischenia-Theatre Road, construct left turn slots		39,027.75	
Project C-0017 - Sundry roads, Areas "A" and "B", pavement rejuvenation		64,999.46	
Project C-0132 - Minor Betterments 80/81 Miscellaneous betterments, Castlegar	54,850.00		
Miscellaneous	155,750.00	210,600.00	
Project C-3733 - Broadwater Road 9, drainage and pavement		69,996.66	
Project V-0654 - Secondary Highway 26B, Columbia Avenue, City of Castlegar		8,040.00	
Project V-0713 - Secondary Highway 26B, Columbia Avenue, construction of Merry Creek culvert, City of Castlegar		57,102.20	
Project V-0730 - Secondary Highway 129B, Columbia Gardens Road		14,406.30	464,172.37
Day Labour - Ferry Landings -			
Project B-0254 - Castlegar Ferry ramps, construction			129,431.52
Day Labour - Bill 5 - Roads -			
Project C-0505 - Robson Streets and left turn		30,000.00	
Project C-0604 - Highway 3, Southern Trans Provincial Highway, Blueberry Creek culvert, major repairs		38,322.09	
Project C-3733 - Broadwater Road 9, drainage and pavement		195,000.00	
Project N-0382 - Guardrail installation program 80/81		94,587.65	357,909.74
Day Labour - Hydro Development - Roads -			
Project C-4290 - Waneta-Nelway Road, relocation of 5.8 km			147,397.00
Maintenance of roads			1,553,945.87
Snow removal			720,780.00
Maintenance of bridges			70,479.66
Maintenance and operation of ferries -			
Castlegar Ferry			237,393.70
Surveys generally - Project L-0101 -			
Castlegar interchange		11,882.88	
Castlegar-Pass Valley (Pass Creek Road)		21,790.24	
Highway 3A from Glenmerry to Montrose		1,246.00	
Highway 3A from Tadanac to Trail		263,919.31	
Minor road surveys		17,068.26	315,906.69
Legal surveys - Project L-0099 -			
Legal survey for sketch plan for Access Road to Lot 1 Plan 5433 D.L.4598, Kootenay District		760.50	
Portion of Pass Creek Highway through part of Lot 8092, Kootenay District (Pumphouse Hill)		5,183.90	
Winter Road 268 through Lot 7246 and 7454, Kootenay District		3,920.00	9,864.40

ROSSLAND-TRAIL DISTRICT - continued

	$	$
Rights-of-way - Project P-0113 -		
Casino Road 65 and Spence Road 207	2,730.00	
Highway 3A and Rosedale Road 192	1,280.00	
Jones Road	1.00	
Oasis Access Road	376.68	
Trail-Tadanac Highway	345,425.60	349,813.28
Rights-of-way - Bill 5 - Project P-0113 -		
Bluebird Road 77	4,645.48	
Casino Road 65 and Spence Road 207	16,650.00	
Columbia Road 182	3,385.00	
Jones Road	1.00	
Oasis Access Road	4,433.63	
Old Erie Sayward Wagon Road	991.60	
Robson Ferry Wharf	10,000.00	
Trail-Tadanac Highway	249,819.94	289,926.65
Construction -		
Roads - Project C-2902 - Southern Trans Provincial Highway 3, Champion Creek-Meadows Siding, construction		4,020.06
Signals, lighting etc. -		
Project E-0005 - Lighting installation Route 22 at Lower China Creek Road, Rossland	8,154.50	
Project E-0595 - Lighting installations, Route 3A at Broadwater Road and Brilliant Bridge, Castlegar	19,457.96	
Project E-0679 - Lighting installation, Route 3A at Rosedale Road, Castlegar	8,014.00	35,626.46
Bridges - Project B-1369 - Beaver Creek Bridge 1085, Trail-Salmo Highway		336,509.19
Surfacing -		
Project S-0084 - Miscellaneous surface seal Road chip seal: Rossland; Highway 3B Rossland-Nancy Green Lake Road (28 km)	194,596.89	
Project S-0646 - Highway 3, Paulson *Bridge to Kinnaird Overpass* (48.4 km)	17,859.37	
Project S-3402 - Aggregates in stockpile. (see also Nelson-Creston, Kootenay and Shuswap-Revelstoke)	57,817.04	270,273.30
Surfacing - Bill 5 - Project S-0646 - Highway 3, Paulson Bridge to Kinnaird Overpass (48.4 km)		573.79
Total, Rossland-Trail District		5,294,023.68

SAANICH AND THE ISLANDS DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0122 - Minor Betterments 80/81, miscellaneous		2,272.87	
Project C-0153 - Minor Betterments 80/81		173,393.62	
Project V-0764 - Secondary Highway 237B, Quadra Street, District of Saanich		11,302.50	
Project V-0797 - Secondary Highway 121B, Keating Cross Road		19,403.63	206,372.62
Day Labour - Bill 5 - Roads -			
Project C-0193 - Fernwood Road		34,388.72	
Project C-0547 - View Royal area miscellaneous roads		75,240.93	
Project C-0582 - Beaver Point at Fulford-Ganges intersection		15,335.40	
Project C-0584 - Morningside Road, flood repair		14,105.58	139,070.63
Maintenance of roads			1,963,893.69
Snow removal			197,982.54
Maintenance of bridges			152,119.88
Surveys generally - Project L-0101 -			
Durrance Lake Road relocation (Hartland Road-Durrance Lake)		87,181.07	
Helmcken Road-Wilkinson Road		610.14	
McKenzie Avenue from Trans Canada Highway (Victoria outlet) to Highway 17 (Pat Bay Highway)		83,432.11	
Minor road surveys		15,917.73	
Pat Bay Highway, Beacon Avenue interchange		10,275.78	
Patricia Bay, Land's End Road interchange		226.10	197,642.93
Legal surveys - Project L-0099 -			
Central Saanich Road widening in remainder of Lot A Sec.11 R4E, South Saanich District Plan 9485		205.73	
McKenzie Avenue extension through Part Lot 1 Section 78 Victoria District Plan 6750		422.57	
Mansell Road in Section 5 Range 5 East, North Saltspring Island		1,250.00	
Mansell Road, through Parcel A (D.D. 186781-1) of Sections 6 & 7 Ranges 4 and 5 East and East 1/2 of Section 6 and 7 Range 5, East-North Saltspring Island		2,750.00	
Stat. Plan of R/W for Vesuvius Bay Road through part of Sec.10 R3W and Sec.9 R2W North Saltspring Island		314.89	
West Saanich Road through Part of the remainder Section 14 Lake District		420.00	5,363.19
Rights-of-way - Project P-0113 -			
Blanshard Street extension		6,322.33	
McKenzie Avenue extension		269,594.11	
Morningside Road		1,200.00	277,116.44

SAANICH AND THE ISLANDS - continued

	$	$
Rights-of-way - Bill 5 - Project P-0113 -		
Blanshard Street extension	2,900.00	
East Point Road, Saturna Island	1.00	
Fulford-Ganges Road at Beaver Point Road	2,880.00	
LePage Road	3,070.00	
McKenzie Avenue extension	851,257.45	
Morningside Road	5,150.00	
Morningside Road, Saltspring Island	40,000.00	
Pat Bay Highway and Beacon Avenue	1,000.00	906,258.45
Construction -		
Roads -		
Project C-2978 - Trans Canada Highway, Harriet Road to Thetis Overhead, grading (see also Esquimalt-Port Renfrew)	17,260.17	
Project C-3121 - Blanshard Street extension	405,881.66	423,141.83
Highway safety - Project C-0206 - Configuration "F" C.M.B. Testing		5,340.00
Roadside development - Project D-0095 - Site preparation of two tourist information centres, Trans Canada Highway 1, Victoria and Highway 17, John's Road, Sidney (see also Esquimalt-Port Renfrew)		100,608.93
Signals, lighting etc. -		
Project E-0577 - Lighting and signal installation Route 17A at Wilkinson Road, Saanich	21,351.30	
Project E-0624 - Pedestrian signal installation, Beacon Avenue at 7th Street, Sidney	10,699.86	
Project E-7907 - Signal and lighting installation, Route 17A, Dignan Road to Columbia Avenue, Brentwood	2,254.00	34,305.16
Bridges - Project B-1274 - Vernon Avenue Overhead 2657, C.N. Railway Overpass, Seymour Avenue 2676, Patricia Bay Highway		143,704.33
Surfacing - Project S-6218 - West Saanich Road, Dignan Road to Columbia Avenue, storm drain, curb and gutter, sidewalk and paving		209,893.65
Total, Saanich and the Islands District		4,962,814.27

SHUSWAP-REVELSTOKE DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0029 - Trans Canada Highway 1 at Three Valley, gabion reconstruction		21,848.80	
Project C-0105 - Trans Canada Highway 1 at Kay Falls, creek diversion		100,000.00	
Project C-0124 - Minor Betterments 80/81			
Salmon Arm area, gravelling and ditching	118,000.00		
Chase area, gravelling	54,400.00		
Falkland area, gravelling	72,000.00		
Miscellaneous	47,500.00	291,900.00	
Project C-0125 - Minor Betterments 80/81, miscellaneous		42,579.15	
Project C-0134 - Minor Betterments 80/81, miscellaneous		4,564.01	
Project C-0138 - Minor Betterments 80/81, miscellaneous		232,583.51	
Project C-0261 - Fredrickson Road, gravelling		20,000.00	
Project C-0262 - Squilax-Turtle Valley Road, gravelling		15,000.00	
Project C-0263 - Chase-Falkland Road, gravelling, improvements		62,000.00	
Project C-0264 - Bequelin Road, gravelling		47,000.00	
Project C-0265 - Cambie-Solsqua Road, gravelling		20,000.00	
Project C-0266 - Holding Bridge 6063, approaches		44,000.00	
Project C-0274 - Trans Canada Highway 1, gradall ditching, various sections		40,000.00	
Project C-3755 - Highway 31 Balfour, Trout Lake Galena Bay, reconstruction		99,432.45	
Project D-4269 - Rest area upgrading (Last Spike, Lost Lake, Red Hill, Carquille, Mara Lake and Nicola Lake)		19,206.14	
Project V-0738 - Secondary Highway 229B, Old Trans Canada Highway, Village of Chase		4,316.97	
Project V-0758 - Secondary Highway 33B, Armstrong-Salmon Arm Road, City of Armstrong		12,815.00	1,077,246.03
Day Labour - Bill 5 - Roads -			
Project C-0262 - Squilax-Turtle Valley Road, gravelling, mixing		97,499.82	
Project C-0265 - Cambie-Solsqua Road, gravelling		74,999.77	
Project C-0266 - Holding Bridge 6063, approaches		25,499.71	
Project C-0388 - Guardrail installation program 80/81		208,000.00	
Project C-0458 - Fredrickson Road and Sunnybrae-Canoe Point Road, gravelling, mixing		149,999.83	
Project C-0459 - Barnhartvale Road, gravelling, mixing		76,999.81	
Project C-0460 - Line 17 Road, gravelling, mixing		64,999.93	
Project C-0461 - Sundry Roads, Salmon Arm District, engineering surveys		99,999.76	
Project C-0468 - Grandview Bench 49, reconstruction		175,130.80	
Project C-3350 - Westside Road-Trout Lake, new construction		175,000.00	

SHUSWAP-REVELSTOKE DISTRICT - continued

	$	$
Day Labour - Bill 5 - Roads - continued		
Project N-0374 - Guardrail installation program 80/81	94,999.85	
Project W-0345 - Fencing Schedule 2 Highways	49,999.91	
Project W-0346 - Fencing Schedule 2 Highways	10,537.31	1,303,666.50
Day Labour - Bill 5 - Bridges -		
Project B-0303 - Cambie Bridge 96	169,049.11	
Project B-0416 - Enderby Bridge, purchase materials, repair decking	164,230.59	
Project B-0681 - Revelstoke East Overhead bridge drainage modifications	7,295.00	340,574.70
Maintenance of roads		4,831,205.00
Snow removal		1,956,869.96
Maintenance of bridges		391,204.63
Maintenance and operation of ferries -		
Shuswap Lake Ferry	24,000.00	
Upper Arrow Lakes, M.V.Galena	1,281,415.84	1,305,415.84
Surveys generally - Project L-0101 -		
Craigellachie, Trans Canada Highway 1	17,944.25	
Design of reconstruction Highway 23 Section 2	52.35	
Highway 97 to Crosier Road, Swan Lake Junction	58,082.96	
Improvement of west intersection at Revelstoke	3,259.89	
K.O.A. Road to Eastern access of Trans Canada Highway	82.11	
Minor road surveys	16,321.82	
Salmon Arm from Shuswap to 40th Street north east on Highway 1	52,554.34	
3 Valley Gap	388.62	148,686.34
Surveys - Hydro development -		
Project L-3889 - Highway 23, Revelstoke-Mica Highway relocation Section 1 Revelstoke Dam site to LaForme Creek (8.0 km to 275.5 km)	187.30	
Project L-3890 - Highway 23, Revelstoke-Mica Highway relocation Section 2, LaForme Creek to Downie Creek (29.0 km to 60.3 km)	558.92	
Project L-3891 - Highway 23, Revelstoke-Mica Highway relocation Section 3, Goldstream Creek to Mica Village (91.7 km to 132.6 km)	15,164.04	15,910.26
Legal surveys - Project L-0099 -		
Balfour-Kaslo-Galena Bay Highway 31 D.L.769 to E.Bdy. L7950, Kootenay District	4,634.68	
Grindrod-Sicamous Highway through part of sections 10 and 15 Tp20 Range 8 Kamloops Division Yale District	2,190.00	
Kamloops-Vernon Highway 97, Falkland, B.C. through Lot 5 Plan 4559 Sec.3 Tp18 W6M	464.20	
Plan of Statutory R/W of 74 Enderby, Mabel Lake Road 4.7 km	7,863.50	

SHUSWAP-REVELSTOKE DISTRICT - continued

	$	$
Legal surveys - Project L-0099 - continued		
Statutory Right-of-way Plan in Lot 6 Plan 1467 NE1/4 Section 25 Tp21 R13 W6M Chase, District Drawing B-1-26	485.30	
Trans Canada Highway near Sorrento, through part of Lot 25 Plan 690 Sec.16 Township 22 Range 11 W6M Kamloops Division Yale District, District Drawing A-1-72	897.50	
Trans Canada Highway R/W in Parcel B Sec.33 R2 W6M Plan 4775, Kootenay District	876.64	17,411.82
Rights-of-way - Project P-0113 -		
Airport Way Road 520	4,183.62	
201 Begbie Road	733.59	
Davies Road	2,586.76	
Douglas Lake Road 292	2,100.00	
Ford Road 36	3,225.00	
Grandview Bench Road 49	663.00	
Ivy Road 71	622.00	
Monte Creek Hill-Barnhartvale Road	8,345.00	
Monte Lake Road	3,000.00	
Okanagan Highway 97B	100.00	
Squilax-Turtle Valley Road 447 and Bailey Road 442	1,060.00	
Trans Canada Highway east of Three Valley overhead	41,000.00	
Trans Canada Highway-Forest Drive 712 and Cedar Drive 368	6,000.00	73,618.97
Rights-of-way - Hydro development - Project P-0037 Revelstoke-Mica		111,261.27
Rights-of-way - Bill 5 - P-0113		
Avoca Road West 612	600.00	
Bequelin Road-Anglemont-Squilax Road	1,080.00	
Chase-Falkland Road 194	3,000.00	
Davie Road	81,558.62	
Dunne Road 112	21,925.00	
Fir Street 928	2,241.59	
49 Grandview Bench Road	1,000.00	
Gravel Pits	1,000.00	
Henstridge Road 130	3,750.00	
Huben Road 407	1,000.00	
Highway 97A-Pleasant Valley Road	3,230.00	
Ivy Road 71	1.00	
Lee Creek Drive 854	1.00	
Lennard Drive 505	1.00	
Line 17 Road	690.00	
London Lane	11,983.58	
Mabel Lake Three Valley Lake Forest Road	1.00	
Monte Creek Hill-Barnhartvale Road	2,517.00	
Okanagan Highway 97A	16,720.00	
Sorrento-Eagle Bay Road	3,000.00	
Springbend Road 366	1.00	
Squilax-Anglemont Road 446	2.00	
Sunnybrae-Canoe Point Road 28	4,200.00	
Tappen Valley-Notch Hill Road	15,636.00	
Trans Canada Highway east of Three Valley Overhead	169.80	
Trans Canada Highway at Lybargar Road 639 & Fuhler Road 625	20,500.00	
Trans Canada Highway 1 Revelstoke west intersection	4,811.27	
Trans Canada Highway widening at Gleneden Road	350.00	200,969.86

SHUSWAP-REVELSTOKE DISTRICT - continued

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Construction -		
Roads - Hydro development -		
Project C-3936 ~ Highway 23 relocation, construction Revelstoke to Mica, Sta. 840+52.08 to 908+69.366 (6.82 km)	4,402,309.05	
Project C-3937 ~ Highway 23, Revelstoke-Mica Highway relocation, Revelstoke Dam to LaForme Creek section (14.48 km to 20.57 km)	2,241,036.30	
Project C-3938 ~ Highway 23, Revelstoke-Mica Highway relocation, Revelstoke Dam to LaForme Creek section (20.57 km to 27.52 km)	1,778,905.57	
Project C-3939 ~ 0001 - Highway 23, Revelstoke-Mica Highway relocation, LaForme Creek to Downie Creek section (Sta. 280+00 to Sta.331+70)(5.2 km)	2,991,110.30	
Project C-3939 ~ 0002 - Highway 23, Revelstoke-Mica Highway relocation LaForme Creek to Downie Creek section (Sta. 331+70 to Sta.349+15)(1.7 km)	4,056,823.05	
Project C-3940 ~ Highway 23, Revelstoke-Mica Highway relocation, LaForme Creek to Downie Creek section 35.1 km to 38.9 km	4,780,814.99	
Project C-3941 ~ Highway 23, Revelstoke-Mica Highway relocation, LaForme Creek to Downie Creek section, (39.2 km to 46.6 km)	1,887,654.75	
Project C-3942 ~ Highway 23, Revelstoke-Mica relocation, construction (Sta. 470+60 to Sta.586+12)(11.5 km)	3,686,813.51	
Project C-3943 ~ Highway 23, Revelstoke-Mica Highway relocation, LaForme Creek to Downie Creek section (Sta.586+13.7 to Sta.660+30)	1,569,668.50	
Project C-3958 - Highway 23, Revelstoke-Mica Highway relocation, LaForme Creek to Downie Creek section, (Sta.661+21 to Sta.743+50)	1,024,196.14	
Project C-3959 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite (91.7 km to 96.8 km) Sta.917+00 to Sta.955+04 (3.8 km)	1,169,877.61	
Project C-3960 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite section (107.2 km to 116.3 km)	4,681,858.77	
Project C-3961 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite section (118.3 km to 125.2 km)	1,827,213.85	
Project C-3962 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Mica Creek Townsite section, km 125.5 to km 132.5 (6.1 km)	414,204.46	36,512,486.85

SHUSWAP-REVELSTOKE DISTRICT - continued

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Signals, lighting etc. -		
Project E-0418 - Lighting and signal installation, Old Columbia River Bridge, Revelstoke	23,545.49	
Project E-0421 - (1) Signal and lighting installation, Route 1 at Ross Street, Salmon Arm and (2) Conduit and junction box installation, Route 1 at Alexander Avenue, Salmon Arm	35,758.95	
Project E-0422 - Flashing beacon and lighting installation Route 1 at Old Spallumcheen Road, Sicamous	3,459.95	
Project E-0690 - Lighting installation, Route 1 at 10th Avenue (Rotten Row) Salmon Arm	3,918.25	66,682.64
Geotechnical and materials - Hydro development - Project G-0428 - Highway 23, Revelstoke-Mica relocation, geotechnical investigations		42,552.78
Bridges - Hydro development -		
Project B-1232 - LaForme Creek Bridge	1,817,943.50	
Project B-1233 - Carnes Creek Bridge	4,245,363.12	
Project B-1234 - Mars Creek Bridge (including Holdick Creek removal)	675,203.94	
Project B-1235 - Big Mouth Creek Bridge	330,083.36	
Project B-1265 - Downie Creek Bridge 857	24,466.63	7,093,060.55
Municipal programmes - Project O-0411 - Coburn Street Bridge, over Chase Creek, Village of Chase		30,000.00
Ferries - Project H-0258 - M.V. Galena, Arrow Lake Ferry, spare propulsion unit		159,049.28
Surfacing -		
Project S-2201 - Trans Canada Highway 1, west of Sorrento to Tappen Overhead (22.3 km)	1,470,658.74	
Project S-2202 - Medium cover aggregate in stockpile, Schwebs Bridge-Pinaus Lake Road area, Highway 97	39,857.48	
Project S-3402 - Aggregates in stockpile (see also Nelson-Creston, Kootenay and Rossland-Trail)	32,522.09	1,543,038.31
Surfacing - Hydro development - Project S-0034 - Highway 23, Revelstoke-Mica Highway relocation, Downie Creek to Bigmouth Creek section		47,332.79
Surfacing - Bill 5 - Project S-0645 - Highway 97, Pinaus Lake to Hanna Road (27 km)		119,485.75
Total, Shuswap-Revelstoke District		57,387,730.13

SKEENA DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0148 - Minor Betterments 80/81, miscellaneous		165,144.28	
Project C-0150 - Minor Betterments 80/81 Smithers local roads, prepare for paving	90,000.00		
Miscellaneous	149,173.25	239,173.25	
Project C-0176 - Old Lakelse Lake Road, reconstruction		141,853.01	
Project C-0179 - Kispiox Valley Road reconstruct 15 km		250,000.00	
Project C-0180 - Kitwancool access road, reconstruct 5 km		100,000.00	
Project C-0181 - Kitwancool to D.L.1208, reconstruct 5.3 km		150,000.00	
Project D-4277 - Highway 37, Kitwanga Highway extension, new rest area development		44,896.91	1,091,067.45
Day Labour - Bill 5 - Roads -			
Project C-0176 - Old Lakelse Lake Road, reconstruction		189,453.28	
Project C-0179 - Kispiox Valley Road, reconstruct 15 km		925,000.00	
Project C-0494 - Douglas Road, reconstruction		72,708.81	
Project C-0495 - Highway 16, construction of left hand turn slot		30,246.84	
Project N-0391 - Guardrail installation program 80/81		17,591.07	
Project N-0392 - Guardrail installation program 80/81		30,000.00	
Project W-0363 - Fencing Schedule 2 Highways		15,860.19	1,280,860.19
Day Labour - Bill 5 - Bridges -			
Project B-0290 - Camp Creek Bridge		25,622.75	
Project B-0327 - Driftwood Bridge 1002		90,000.00	
Project B-0328 - Brauns Island Bridge		79,573.87	
Project B-0329 - Hatchery Creek Bridge		5,968.11	
Project B-0330 - Thornhill Creek Bridge		48,894.61	
Project B-0331 - Sockeye Creek Bridge		61,194.05	311,253.39
Day Labour - Bill 5 - Ferries -			
Project H-0729 - Usk Ferry re-fit			46,935.50
Maintenance of roads			4,721,880.27
Snow removal			827,194.22
Maintenance of bridges			372,196.26
Maintenance and operation of ferries -			
Usk Ferry			83,970.40
Surveys generally - Project L-0101 -			
Carnaby Crossing to Kitsequecla Yellow-Head Highway 16 west		7,763.01	
Junction Highway 16 and Highway 25 to Frank Street, Terrace		14,644.55	
Kitwanga-Meziadin Lake from Kitwanga to D.L.3401		32,998.09	
Shames (Lot 5621) Tyee		69,209.20	

SKEENA DISTRICT - continued

	$	$
Surveys generally - Project L-0101 - continued -		
Site plans and investigations Highway 16 floods damage, Terrace area	43.91	
Smithers Arterial from Bulkley River to Kathlyn Street	3,364.00	
Smithers Telkwa Grid Road	91,231.08	
Terrace Bypass	334.00	219,587.84
Legal surveys - Project L-0099 -		
Burnt Cabin Road 9 from Telkwa High Road to East Boundary D.L.883 R5, Coast District	7,817.70	
Restoration Survey of Block Corners in D.L.39 Cassiar District and Six Mile Road Right-of-way	2,283.80	10,101.50
Rights-of-way - Project P-0113 -		
Highway 16 Kenney Street-Eby Street, curb and gutter	767.00	
Muller Avenue and Empire Street	561.60	
Sundry expenses	14.00	1,342.60
Rights-of-way - Bill 5 - Project P-0113 -		
Burnt Cabin Road 9	3,288.00	
Douglas Road	1,210.00	
Gravel pits	1,100.00	
Hatchery Creek Bridge site plan	1.00	
Highway 16 Kenney Street, Eby Street curb and gutter	4,803.50	
Highway right-of-way Yellowhead Highway 16, through C.N.R. D.L.863, Cassiar District	6,534.00	
Kasiks River to Backwater Creek	984.00	
49 Kispiox Valley Road	3,010.00	
Kofoed Road	150.00cr.	
Old Lakelse Lake Drive 53	4,743.75	
Road right-of-way D.L.4506, Range 5, Coast District	486.50	
Sundry expenses	100.00	
Telkwa-Smithers Grid Roads and Lake Kathlyn Road 104	4,125.00	30,235.75
Construction -		
Roads -		
Project C-2775 - Yellowhead Highway 16, Igneous Creek to Khyex River section	303.60	
Project C-3320 - Kitwanga to D.L.1206, mileage 12.82	30,834.55	
Project C-3487 - Highway 16, Yellowhead Highway reconstruction C.N.R. Tunnel Kwinitsa to Igneous Creek Prince Rupert-Terrace subdivision 1505 (5.04 miles)	1,969,899.34	
Project C-3719 - Construction Kitwanga to Meziadin Lake, Highway 37, inventory mile 17.71 to 27.29	1,516,216.48	3,517,253.97
Roads - Bill 5 - Project C-0253 - Highway 16, Yellowhead Highway Kasiks River-Backwater Creek (8.56 km)		198,253.33
Highway Safety - Project C-0204 - Pedestrian walkway, Hagwilget Bridge to Route 16, New Hazelton		8,132.00

SKEENA DISTRICT - continued

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Bridges -			
Project B-1197 - Terrace, Prince Rupert Bridges: Backwater Creek 2579: East Kwinitsa Creek 2199: Log Creek 6708: Snow Creek 6715: and Swamp Creek 6717 Bridges: Yellowhead Highway		194,319.53	
Project B-1272 - Chimdemash Creek Bridge 2170, Little Oliver Creek Bridge 1135, Price Creek Bridge 2718, Yellowhead Highway		1,249.39	
Project B-1278 - Legate Creek Bridge and St. Croix Creek Bridge, Yellowhead Highway		2,435.90	
Project B-1328 - Moonlit Creek Bridge 2710 Kitwanga-Meziadin Lake Highway 37		205,590.99	
Project B-1385 - Repairs and modifications to steelwork, Nimpkish River Bridge 2162, Kitimat River Bridge 1480 and Hirsch Creek Bridge 1478 (see also North Island)		50,687.20	454,283.01
Bridges - Bill 5 - Project B-0426 - Lean-to Creek Bridge 1024, Kalum Lake Road			282,760.89
Surfacing -			
Project S-5201 - Yellowhead Highway 16, Khyex River to Backwater Creek, km 51.4 to km 77.8 (26.4 km)		338,890.78	
Project S-5418 - A. Cassiar Highway 37, Kitwanga to Kitwancool section (21.0 km) B. Kitwanga Valley Road and miscellaneous village streets (6.8 km)(27.8 km)		591,700.30	930,591.08
Surfacing - Bill 5 -			
Project S-0640 - Highway 16, New Hazelton-Mudflat (including Kispiox Road intersection 16 Kzan)		11,614.78	
Project S-5201 - Yellowhead Highway 16: Khyex River to Backwater Creek: km 51.4 to km 77.8 (26.4 km)		1,405,613.16	1,417,227.94
Total, Skeena District			15,805,127.59

SOUTH PEACE RIVER DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0142 - Minor Betterments 80/81			
Construction and gravelling various roads	335,654.84		
Gravelling and culvert installation	52,193.80		
Miscellaneous	45,065.47	432,914.11	
Project C-0163 - John Hart Highway 97, improvements and major pavement patching		50,000.00	
Project C-0164 - Grizzly Valley Circle Route, construction and reconstruction in preparation for paving		650,000.00	
Project C-2286 - Substandard roads in the Dawson Creek Highway District, construct, reconstruct, gravel, regravel and pave		99,185.60	
Project C-4235 - Jackfish Road, grade and base construction, gravel, prepare for paving and installation of multi-plate culvert		37,705.75	
Project V-0675 - Secondary Highway 196B, Eighth Street, City of Dawson Creek		30,000.00	
Project V-0676 - Secondary Highway 268B, Seventeenth Street, City of Dawson Creek		66,785.00	1,366,590.46
Day Labour - Bill 5 - Roads -			
Project C-0163 - John Hart Highway, improvements and major pavement patching		144,409.46	
Project C-0164 - Grizzly Valley Circle Route, construction and reconstruction in preparation for paving		2,282,997.52	
Project C-0446 - Student summer employment program in the Dawson Creek Highway District		44,260.90	
Project C-2286 - Substandard roads in the Dawson Creek Highway District, construct, reconstruct, gravel, regravel and pave		672,864.35	
Project C-4235 - Jackfish Road, grade and base construction, gravel, prepare for paving and installation of multi-plate culvert		222,564.17	
Project N-0431 - Guardrail installation program 80/81		42,388.76	
Project W-0358 - Fencing Schedule 2 Highways		25,189.00	3,434,674.16
Day Labour - Bill 5 - Bridges -			
Project B-0537 - Flatbed 2 and Babcock Bridges, construction, Northeast Coal Development		180,646.00	
Project B-0723 - Twidwell Bend Bridge, Northeast Coal Development		20,942.85	201,588.85
Maintenance of roads			3,798,105.52
Snow removal			1,405,175.00
Maintenance of bridges			250,300.00
Maintenance and operation of ferries - Clayhurst Ferry			273,979.07

SOUTH PEACE RIVER DISTRICT - continued

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Surveys generally - Project L-0101 -			
B.C. Rail Overpass, Highway 97, *Chetwynd*	23,420.25		
Clayhurst Bridge site	2,886.47		
Hart Highway 97 from Pine Pass to West Pine Bridge	485.90		
Hart-Wabi hill truck lane at Chetwynd and West Pine truck lane	3,297.47		
Minor road surveys	1,934.71		
Northeast Coal Development general	708.60		
Peace River Bridge to South Approach Hill	78,980.17	111,713.57	
Project L-3424 - Martin Creek to Gwillim Lake, Section 2 design (North East Coal Development)		6,836.22	
Project L-3507 - Gwillim Lake to Tumbler Ridge, Section 3 design (North East Coal Development)		770,300.95	888,850.74
Legal surveys - Project L-0099 -			
Calliou Road 66 through unsurveyed Crown Land and D.L.3162, Peace River District		3,094.75	
Jackfish Lake Road 12 from Highway 29 to N. Bdy. D.L.3092, Peace River District		7,980.50	
Jackfish Lake Road 12 S. Bdy L767 to Lot 1824, Peace River District		4,701.60	
John Hart, Peace River Highway 97, S. Bdy. D.L.482 to S. Bdy. D.L.2003, Peace River District		223.33	
Road 1, W. Bdy. Sec.28 to S. Bdy. Sec. 2 Tp77 R14 W6M, Peace River District		12,514.92	
Road 9, S. Bdy. Sec.27 Tp78 to N. Bdy. Sec.10 Tp79 R18 W6M, Peace River District		4,598.26	33,113.36
Rights-of-way - Project P-0113 - Road 221			460.00
Rights-of-way - Bill 5 - Project P-0113 -			
Collins Road 230 and Road 247		1.00	
John Hart-Peace River Highway		1.00	
Northeast Development Road, Junction Highway 97 to Martin Creek		12,944.00	
Quaale Subdivision Road 370		1.00	
Road 201		593.00	
Road 215		858.25	
Road 221		8,320.00	
Road 267		100.00	
Spirit River Highway 49		11,970.70	
Wieland Road 73		913.00	35,701.95
Construction -			
Roads -			
Project C-4500 - Pine River Bridge approaches at Twidwell Bend, Northeast Development Road, junction Highway 97 to Martin Creek (0.4 miles) (North East Coal Development)		2,339,956.97	
Project C-4513 - Northeast Development Road, junction Highway 97 to Martin Creek (14.3 miles) Sta.21+05.42 to Sta.778+50		539,952.02	2,879,908.99

SOUTH PEACE RIVER DISTRICT - continued

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Construction - continued -			
Roads - Bill 5 - Project C-4513 - Northeast Development Road, junction Highway 97 to Martin Creek (14.3 miles) Sta.21+05.42 to Sta.778+50			110,474.92
Highway Safety - Project C-0204 - Sidewalk construction and paving, Pouce Coupe			2,404.00
Signals, lighting etc. - Project E-7927 - Signal and lighting installation Route 2 at 110th Avenue, Dawson Creek			7,987.77
Bridges -			
Project B-1031 - Kiskatinaw River Bridge		300,125.35	
Project B-1158 - West Pine Bridge 1197, John Hart Highway 97		160,012.75	460,138.10
Bridges - Bill 5 - Project B-1393 - Twidwell Bend Bridge 2268 on Northeast Coal Development Road			159,494.34
Surfacing -			
Project S-0240 - John Hart-Peace River Highway 97, Kathleen Creek to Silver Sands Creek, km 59.6 to km 80.5 (20.9 km)		47,024.29	
Project S-4301 - Feller's Heights access road (17.0 km) John Hart-Peace River Highway 97, East Pine Bridge-Groundbirch (23.2 km) grade revision east of Chetwynd (1 km) (42.2 km)		2,601,436.91	
Project S-4318 - City of Dawson Creek Alaska Avenue: Storm drainage, curb and gutter and paving Alaska Highway: Paving-miscellaneous paving in Pouce Coupe		25,894.76	
Project S-4328 - Alaska Highway-Kiskatinaw River Bridge approaches		10,325.12	2,684,681.08
Surfacing - Bill 5 - Project S-0240 - John Hart-Peace River Highway 97, Kathleen Creek to Silver Sands Creek, km 59.6 to km 80.5 (20.9 km)			946,696.81
Total, South Peace River District			18,940,325.12

SURREY DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0119 - Minor Betterments 80/81, miscellaneous		65,074.45	
Project C-0122 - Minor Betterments 80/81, miscellaneous		4,248.56	
Project V-0753 - Secondary Highway 149B, Marine Drive, Washington Avenue, City of White Rock		49,064.49	
Project V-0766 - Secondary Highway 182B, 152nd Street (Johnston Road), District of Surrey		3,858.01	
Project V-0767 - Secondary Highway 151B, Marine Drive, Stevenson Road, District of Surrey		29,653.17	151,898.68
Day Labour - Bill 5 - Roads -			
Project C-0092 - Bridge Road, Surrey, test fill		8,000.00	
Project C-0487 - Trans Canada Highway 1, truck storage improvements at westbound weigh scale site		113,779.00	
Project C-0489 - Highway 10 at 136th Street, Surrey, left turn slot and improvements		66,221.00	
Project D-0565 - Landscaping of triangular piece of property at 59th Avenue and 176th Street, Cloverdale		18,000.00	206,000.00
Maintenance of roads			1,307,088.43
Snow removal			85,876.50
Maintenance of bridges			56,725.35
Maintenance and operation of ferries -			
Barnston Island Ferry			273,288.72
Surveys generally - Project L-0101 -			
Minor road surveys		108.00	
Nicomekl River-6th Avenue on Highway 99A		910.00	
Pattullo Bridge to River Road		25,079.88	
Port Mann Eastbound Weigh Scale site		11,765.84	
Scott Road from Highway 1 to Highway 10 (see also Delta)		462.13	
Scott Road, Old Yale Road to 96th Avenue (see also Delta)		16,576.45	
South end of Pattullo Bridge		55,642.00	110,544.30
Legal surveys - Project L-0099 -			
Fraser Highway through parts of Sec.25 and 26 Tp2 Gpl, New Westminster District, at Pike Road		882.00	
Plan for Statutory Rights-of-way River and Scott Roads in part of Sec.25 Blk. 5N R3W, New Westminster District Drawing 14-159		1,271.68	
Reference Plan to consolidate Lot B of Lot 7 and west 330 feet of Lot 6 Plan 10409 in Sec.20 Blk 5N R1W New Westminster District (see also Langley)		304.25	

SURREY DISTRICT - continued

	$	$	$
Legal surveys - Project L-0099 - continued			
R/W over portion of Lot C of Lot 1 D.L.121 Group 2 Plan 28296, New Westminster District (96th Avenue) Townline Road		425.46	
R/W over portion of Lot 2 of Parcel 'A' Sec.25 Block 5 North Range 1 West Plan 7053 (168th St.) Coast Meridian Road		425.46	3,308.85
Rights-of-way - Project P-0113 - Scott Road and Bridge Road, Pattullo Bridge approach, Old Yale Road King George Highway			1,117.00
Rights-of-way - Bill 5 - Project P-0113 - King George Highway 96th Avenue to 62nd Street		11,706.00	
Scott Road and Bridge Road-Pattullo Bridge approach Old Yale Road, King George Highway		202,883.39	214,589.39
Construction -			
Roads - Project C-3983 - King George Highway VI 99A, from Fraser Highway 1A to 62nd Avenue			2,152,528.14
Highway Safety - Project C-0204 - Paving shoulders between 62nd and 66th Avenue on 200th (Carvolth) Street			451.00
Signals, lighting etc. -			
Project E-0002 - Signal installation Route 15 at 64th, Cloverdale		13,385.03	
Project E-0040 - Lighting and signal installation, Route 1A to Route 10 (Glover Road), Langley		161,177.92	
Project E-0279 - Lighting revision, Route 1A/99A Pattullo Bridge (see also New Westminster)		16,461.57	
Project E-0419 - Additional lighting, Route 1 at Stormont interchange		22,053.57	
Project E-0592 - Lighting installation, Route 1 west bound weigh scale, Port Mann		34,555.12	
Project E-7836 - Signal revision and lighting installation Route 99A (King George Highway) 62nd Avenue to Fraser Highway		55,265.13	
Project E-7848 - Signal and lighting revision Route 1A at 160th Street, Surrey		5,629.65	308,527.99
Ferries - Project H-0116 - Barnston Island Ferry, new vessel			19,929.00
Surfacing - Project S-1401 - Matthews Road interchange, Nicomekl River section: Highway 99 (14.2 km)(see also Delta)			940,968.42
Total, Surrey District			5,832,841.77

VANCOUVER CENTRE DISTRICT

	$	$	$
Day Labour - Roads - Project C-0122 - Minor Betterments 80/81, miscellaneous			5,836.00
Maintenance of roads			67,255.56
Snow removal			7,985.74
Total, Vancouver Centre District			81,077.30

VANCOUVER EAST DISTRICT

	$	$	$
Maintenance of roads			611,940.07
Snow removal			11,077.71
Maintenance of bridges			14,569.38
Surveys generally - Project L-0101 - Cassiar Street			39,614.10
Rights-of-way - Project P-0113 - Trans Canada Highway, 2nd Narrows Bridge to First Avenue			550,753.63
Rights-of-way - Bill 5 - Project P-0113 - Trans Canada Highway, 2nd Narrows Bridge to First Avenue			411,892.26
Highway Safety - Project C-0205 - Median barrier installation south end of Second Narrows Bridge			12,605.68
Total, Vancouver East District			1,652,452.83

VANCOUVER-POINT GREY DISTRICT

	$	$	$
Maintenance of roads			252,051.35
Snow removal			10,266.44
Surveys generally - Project L-0101 - 16th Avenue and S.W. Marine Drive, U.B.C. Endowment Lands		4,241.16	
Curb and gutter design on Chancellor Boulevard from 4th Avenue extension project west to existing curb and gutter 4 lane, enclosed drainage, 70 km / H includes bicycle path		8,161.38	12,402.54
Construction - Roads - Project C-3912 - U.B.C. Endowment Lands, 16th Avenue to South West Marine Drive			1,377,948.97
Roads - Bill 5 - Project C-3912 - U.B.C. Endowment Lands, 16th Avenue to South West Marine Drive			1,850,169.82
Total, Vancouver-Point Grey District			3,502,839.12

VANCOUVER SOUTH DISTRICT

	$	$	$
Day Labour - BILL 5 - Bridges - Project B-0298 - Oak Street Bridge 1380			43,862.18
Maintenance of roads			53,646.34
Snow removal			645.69
Maintenance of bridges			30,232.35
Construction - Bridges - Project B-0627 - Knight Street Bridge (see also Richmond)			1,270.76
Total, Vancouver South District			129,657.32

VICTORIA DISTRICT

	$	$	$
Surveys generally - Project L-0101 - Interchange at McKenzie Avenue and Patricia Bay Highway 17			552.00
Total, Victoria District			552.00

WEST VANCOUVER-HOWE SOUND DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0081 - Pemberton Portage, reconstruct and gravel in preparation for paving		100,000.00	
Project C-0117 - Minor Betterments 80/81, miscellaneous		224,363.57	
Project D-0096 - Tunnel Point rest area, paving of parking lot, Highway 99		26,000.00	350,363.57
Day Labour - Bill 5 - Roads -			
Project C-0081 - Pemberton Portage, reconstruct and gravel in preparation for paving		240,000.00	
Project C-0483 - Pemberton Meadows Road, gravelling in preparation for paving		20,000.00	
Project C-0484 - Bowen Island, Eagle Cliff Road and other miscellaneous island roads, gravelling and paving		100,000.00	
Project C-0709 - Construct truck stop, Trans Canada Highway 1, Horseshoe Bay		40,000.00	
Project C-3208 - Garibaldi Highway 99, Alpine Drive at Whistler to Pemberton, gravel in preparation for paving		630,000.00	
Project N-0368 - Guardrail installation program 80/81		160,000.00	1,190,000.00
Day Labour - Bill 5 - Bridges -			
Project B-0294 - Shaw Bridge 7351		82,368.44	
Project B-0664 - Owl Creek Bridge, paving of present concrete stringers		3,800.00	
Project B-0677 - Golden Dreams Bridge Q-7371		39,341.90	
Project B-0754 - Batt Bridge Q-7380, replace existing bridge with culvert and fill		19,277.86	144,788.20
Maintenance of roads			2,077,903.16
Snow removal			251,724.35
Maintenance of bridges			70,121.38
Maintenance and operation of ferries - Woodfibre Ferry			817,548.42
Surveys generally - Project L-0101 -			
99 Brohm Lake to Whistler Junction		54,603.84	
4 lane urban design from Mine Museum to Britannia Creek		36,517.72	
Minor road surveys		17,266.34	
Miscellaneous from Vancouver to Whistler Mountain (Garibaldi access)		33.94	
Mount Currie to D'Arcy		23.14	
Mount Currie-Duffie Lake		303.26	
99 from Squamish to Cheekye		290.49	
Whistler four laning West Road-Mons Highway 99		16,371.52	125,410.25

WEST VANCOUVER-HOWE SOUND DISTRICT - continued

	$	$	$
Legal surveys - Project L-0099 -			
Cypress Bowl Access Road through Lots 1 to 5 and 14 to 16 Block C and Lots 17 and 18 Block B D.L.1123 Group 1, New Westminster District		4,096.00	
Highway 99, S. Bdy. Sec.23 Tp50, N.Bdy. L2184 Depot Road to Alice Lake Road		7,507.65	
Highway 99 through part D.L.3115 Gp1, New Westminster District		2,247.87	
Lillooet Lake Road through Nesuch Indian Reserve 3 and Nesuch 8, Mount Currie		6,629.70	20,481.22
Rights-of-way - Project P-0113 -			
Cypress Bowl Access Road		276,897.39	
Pemberton-Portage Road		2,550.00	279,447.39
Rights-of-way - Bill 5 - Project P-0113 -			
Horseshoe Bay-Britannia Sunset Point, intersection			3,005.00
Construction -			
Roads - Project C-0252 - Highway 99, Squamish-Pemberton Highway Cheakamus Canyon section (2.44 km)			122,655.40
Highway safety -			
Project C-0203 - Installation of deceleration lane at South entrance to Lion's Bay		21,989.02	
Project C-0205 -			
Left turn slots off Route 99 into Sunset Point Subdivision	47,897.30		
Re-alignment of Highway 99, including rock cut at Squamish area	70,113.68	118,010.98	140,000.00
Signals, lighting etc. - Project E-7803 -			
Pedestrian signal and lighting installation Route 99, Mamquam River to Alice Lake Junction, Squamish			14,982.38
Bridges -			
Project B-1195 - Rubble Creek Bridge 7388, Brandywine Creek Bridge 7375, Garibaldi Highway 99		1,174.88	
Project B-1334 - Mamquam Pedestrian Overpass 2622, Garibaldi Highway		8,238.54	9,413.42
Total, West Vancouver-Howe Sound District			5,617,844.14

YALE-LILLOOET DISTRICT

	$	$	$
Day Labour - Roads -			
Project C-0120 - Minor Betterments 80/81, miscellaneous		10,830.50	
Project C-0121 - Minor Betterments 80/81, miscellaneous		193,000.00	
Project C-0122 - Minor Betterments 80/81, miscellaneous		7,260.51	
Project C-0123 - Minor Betterments 80/81			
Savona area various roads, sealcoating and widening	11,446.00		
Kamloops area south, miscellaneous	14,295.00	25,741.00	
Project C-0126 - Minor Betterments 80/81		49,476.00	
Project C-0127 - Minor Betterments 80/81			
Fox Farm Road, reconstruction	14,394.76		
Sunshine Valley Road, pave	18,630.70		
Coldwater Road, fencing	9,640.00		
Douglas Lake Road, construction	6,365.80		
Botannie Road, reconstruction	6,394.00		
Highland Valley Road, reconstruction	49,872.68		
Coalmont Road, realignment	14,479.03		
Coalmont Road Bluff, reconstruction	23,490.72		
Pre-engineering	15,150.65	158,418.34	
Project C-0128 - Minor Betterments 80/81			
Anderson pit, salt shed construction	15,200.00		
Lillooet area, road base repair, gravelling	103,870.34		
Ashcroft area, ditching	30,875.00		
Seton Portage Road, realignment	10,759.00		
Road 40, machine patching	19,876.00		
Lillooet yard, landscaping	6,000.00		
Engineering	23,000.00	209,580.34	
Project C-0157 - Southern Trans Provincial Highway 3, widening for guardrail at Similkameen Falls		75,000.00	
Project C-0158 - Yale Townsite, reconstruct and prepare for paving		75,000.00	
Project C-0269 - Highway 5, Princeton to Kamloops, shouldering and ditching		62,110.04	
Project C-0270 - Gun Lake Road, construction		50,729.80	
Project C-0271 - Pre-engineering surveys, various		34,441.39	
Project C-3796 - Princeton-Kamloops Highway 5, reconstruct and pave		198,299.22	
Project C-4169 - Trans Canada Highway 1, miscellaneous sections, major patching		157,730.00	
Project C-4174 - Highway 12A, Lillooet-Cache Creek, prepare for paving		74,348.48	
Project D-4269 - Rest area upgrading (Last Spike, Lost Lake, Red Hill, Carquille, Mara Lake and Nicola Lake)		30,000.00	
Project V-0680 - Secondary Highway 159B, Kawkawa Lake Road, Town of Hope, repaving		20,375.00	1,432,340.62
Day Labour - Ferries			
Project H-1372 - North Bend Aerial Ferry, re-cabling			176,471.87
Day Labour - Bill 5 - Roads -			
Project C-0270 - Gun Lake Road		76,031.39	
Project C-0456 - Lac Le Jeune Road, reconstruct and pave		98,061.65	

YALE-LILLOOET DISTRICT - continued

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Day Labour - Bill 5 - Roads - continued		
Project C-0472 - Princeton area roads, miscellaneous upgrading	30,034.00	
Project C-0476 - Meadow Creek Road, construction	476,193.50	
Project C-0477 - Lillooet area, miscellaneous roads, paving	191,215.31	
Project C-0478 - Goldbridge Road 40, reconstruction	150,865.51	
Project C-4073 - Lillooet bridge approaches, construct, gravel and pave	122,551.08	
Project C-4170 - Duffey Lake Road, gravelling and realignment	128,985.67	
Project C-4174 - Highway 12A, prepare for paving	45,056.86	
Project N-0372 - Guardrail installation program 80/81	100,000.00	
Project N-0373 - Guardrail installation program 80/81	19,750.00	
Project N-0378 - Guardrail installation program 80/81	342,832.25	
Project N-0379 - Guardrail installation program 80/81	146,432.17	
Project W-0349 - Fencing Schedule 2 Highways	42,255.82	
Project W-0350 - Fencing Schedule 2 Highways	32,831.85	2,003,097.06
Day Labour - Bill 5 - Bridges -		
Project B-0293 - McCarthy Bridge 6484	29,000.00	
Project B-0296 - Richardson Bridge 6510	12,000.00	
Project B-0307 - Nicola Avenue, reconstruct	116,387.87	
Project B-0308 - Yalakom Bridge 6691	180,526.45	337,914.32
Maintenance of roads		7,138,797.55
Snow removal		1,753,132.24
Maintenance of bridges		391,208.92
Maintenance and operation of ferries -		
Lytton Ferry	155,183.89	
North Bend Aerial Ferry	251,318.00	406,501.89
Surveys generally - Project L-0101 -		
Ashcroft, First Avenue from Thompson River Bridge to C.P.R. Crossing	27,645.38	
Fraser River Crossing at Lillooet	23,719.50	
Hope-Merritt (Coquihalla)	699,961.55	
3 Hope Princeton slide area	5,386.44	
Hope Princeton-Whipsaw Creek revision	47,367.09	
Kamloops Highland Valley	45,326.26	
Merritt to Kamloops	2,460.86	
4 Mile Corner-Nicolum Creek, Highway 3	85,714.43	
North approach Hope Bridge	24,832.76	
Route 8, Merritt-Spences Bridge	22,247.81	
Southern Trans Provincial Highway 3,47-48 km	114.59	
Southern Trans Provincial Highway 3, 95 km - 101 km	40.00	
Southern Trans Provincial Highway (trucklanes) from Hope to Princeton	17,474.15	
Trans Canada Highway 1-Cache Creek, D.L.8 (Lillooet District Boundary)	48,159.38	

YALE-LILLOOET DISTRICT - continued

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Surveys generally - Project L-0101 - continued -		
Trans Canada Highway and Cariboo Cache Creek Junction	49,166.35	
Trans Canada Highway, Flood-Haig (via Hope)	19,169.71	
Trans Canada Highway 1 Oregon Jack-North Ashcroft Junction	7,634.85	1,126,421.11
Legal surveys - Project L-0099 -		
Black Mine Road in D.L.'s 982, 232 and 985 Yale Division Yale District and West Kootenay Power & Light Co. Ltd. Right-of-way	4,000.00	
Explanatory Plan for Drainage Easement Lot 14 Block 8 D.L.5690 Plan 2366 Goldbridge	130.00	
Gun Lake Road in District Lots 5637, 8012, 8013 and 8016 Lillooet District and Unsurveyed Crown Land	8,976.49	
Highland Valley Road - Lots 7 & 8 Plan 4450 D.L.423 & Road R/W through Lot A Blk A Plan 30532 D.L.423, Kamloops Division Yale District	729.58	
Lillooet, Cache Creek Highway 12B Pavilion to N.Bdy L3629, Lillooet District	11,382.88	
Merritt-Spences Bridge Highway 8 E Bdy. Sec.1 to W.Bdy. L6 Sec.11 Tp14 R23 W6M, Kamloops Division Yale District	7,225.33	
Princeton-Summerland Road 40, S. Bdy. D.L.42 to E. Bdy. D.L.1042, Kamloops Division Yale District	9,859.27	
Savona-Merritt Road through part Nicola-Mameet Indian Reserve 1	2,157.00	
Spences Bridge-Merritt Highway 8 through part of D.L.153, Kamloops Division Yale District	1,250.00	
Trans Canada Highway, Floods to Hope through Lot L Plan 2508 NW1/4 Sec.5 W6M, Kamloops Division Yale District	650.00	46,360.55
Rights-of-way - Project P-0113 -		
Baker Road 40	3,847.00	
Coquihalla Highway	4,716.02	
Floods to Hope	252.58	
Gun Lake Road	9,300.00	
Gun Lake South Road 104	7,200.00	
Gun Lake West Road 90	1,320.00	
Land and Bridge and Hope Indian Reserve 5	20,067.18	
Lillooet Station Bridge, temporary Bailey Bridge	500.00	
Nicolum Creek-West Boundary, Manning Park	1.00	
Trans Canada Highway at Dogwood Valley Road	7,820.00	55,023.78
Rights-of-way - Bill 5 - Project P-0113 -		
Bailey Bridge site	4,633.00	
Coquihalla Highway	4,490.73	
East Lillooet Road 76	7,400.27	
Floods to Hope	601.00	

YALE-LILLOOET DISTRICT - continued

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Rights-of-way - Bill 5 - Project P-0113 - continued		
Gibbs Creek-Sallus Creek	8,752.76	
Gun Lake North West Road 90	61,895.00	
Gun Lake South Road 104	140.00	
Highway 12A	30,000.00	
Highway 5, Merritt to Princeton widening	260.00	
Kirkland Ranch Road 26	3,099.05	
Lillooet Bridge approach-Bralorne Road	203,182.33	
Lillooet-Cache Creek Highway 12B	2,350.00	
Lindley Creek Road 43	2,525.36	
Manning Road 48	1.00	
Meadow Creek Road 178	8,575.00	
Oregon Jack Indian Reserve 5 to Cache Creek	1,513.77	
Relocation of Thynne Creek Bridge Coalmont Road 14	570.80	
Stenvold Road	1.00	
Trans Canada Highway Boston Flats-Cache Creek	784.37	
Trans Canada Highway 1 and Stage Road	5,040.84	
Yalakom River Bridge	6,573.00	352,389.28
Construction -		
Roads -		
Project C-2686 - Trans Canada Highway 1, reconstruction Hunter Creek to Floods	6,776.81	
Project C-3760 - Coquihalla Highway, Nicolum Creek to Peers Creek	2,401,121.78	
Project C-4101 - Lillooet-Cache Creek Highway 12, Gibbs Creek-Sallus Creek, miles 11.05 to 13.32, 1.94 miles; and B.C. Railway relocation, miles 171.54 to 172.15, 0.68 miles	593,626.25	
Project C-4477 - Southern Trans Provincial Highway 3, reconstruction, Nicolum Creek to west boundary Manning Park, mile 7.55 to 17.00 (8.67 miles)	2,311,467.49	
Project C-4478 - Coquihalla Highway construction, Boston Bar Creek Summit to Dry Gulch, km 44.2 to 48.7 (4.5 km)	10,775.86	
Project C-4534 - Trans Canada Highway 1, near Spences Bridge, highway encroachment mile 74.57 - 75.14 at 75.16 - 75.20, Thompson subdivision C.P.R. lease (LV4960) cost-sharing with C. P. Rail	171,793.01	5,495,561.20
Roads - Bill 5 -		
Project C-4370 - Lillooet Access Road, reconstruction of Station Hill Road, including construction of metal bin retaining walls and protection of railway wye	1,036,241.39	
Project C-4477 - Southern Trans Provincial Highway 3, reconstruction: Nicolum Creek to West Boundary Manning Park-Mile 7.55 to Mile 17.00 (8.67 miles)	4,785,455.56	
Project C-4478 - Coquihalla Highway construction, Boston Bar Creek summit to Dry Gulch km 44.2 to 48.7 (4.5 km)	1,481,034.99	
Project C-4521 - Highway 3 at Hope, storm drainage	26,377.72	7,329,109.66
Highway safety - Project C-0205 - Seton Lake guardrail installation		55,815.57

YALE-LILLOOET DISTRICT - continued

	$	$	$
Construction - continued -			
Roadside development - Project D-4526 - Reforestation of cut slopes, Trans Canada Highway 1, Boston Bar			4,971.80
Signal, lighting etc - Project E-0665 - Flashing beacon and lighting installation Route 1 at Yale Road/Silver Skagit Road, Hope			4,514.60
Bridges -			
Project B-1192 - Lillooet Bridge, fabrication and erection of structural steelwork		881,784.82	
Project B-1358 - Bonaparte River Bridge, Trans Canada Highway improvements		79,901.04	
Project B-1362 - Pavilion Overhead 2665, Glenfraser Overhead 2707, Cache Creek Highway		367,902.21	1,329,588.07
Bridges - Bill 5 - Project B-1192 - Lillooet Bridge, fabrication and erection of structural steelwork			902,468.24
Municipal programmes - Project O-0427 - Hope Golf Course Bridge, Coquihalla River, Town of Hope			6,943.00
Surfacing -			
Project S-0084 - Miscellaneous surface seal Loon Lake Road (beginning of 1979 drum mix to end of pavement)		89,748.21	
Merritt-District Boundary to Aspen Grove (21 km)	115,557.68		
Road graded seal: Lillooet miscellaneous roads (55.2 km)	406,954.96	612,260.85	
Project S-0085 - Miscellaneous drum mix Lillooet, 12 Crown Lake Road (21 km)		722,527.08	
Project S-1601 - Highway 1, Yale/ Alexandra sections (21.75 miles) and Highway 7 sections Seabird Island/Haig (5.0 km)(25.75 km)		1,436,355.78	
Project S-2428 - Highway 3, Sunday Summit to Princeton Section 28.76 km		5,084.20	2,776,227.91
Surfacing - Bill 5 - Project S-1618 - Trans Canada Highway Job a. Jones Creek-Hunter Creek 8.2 km Job b. Hope-Spuzzum Truck lanes (20.6 km) Job c. Highway 9 Trans Canada Highway to Rosedale Bridge (2.5 km) (Total 31.30 km)			1,221.71
Total, Yale-Lillooet District			33,126,080.95

HIGHWAYS

REPORT OF DIRECTOR OF MAINTENANCE SERVICES

P. B. MacCARTHY

The cost of maintaining the highway system, including bridges, ferries and machinery, in the scal year 1980/81 was $174,000,000, a 9 per cent increase over the previous years.

Unsettled weather conditions throughout the summer and early fall months delayed the :complishment of some maintenance, paving and day labour programs.

The Ministry's gravel crushing program, accounting for 1,267,491 t of crushed granular iaterial was supplemented by the calling of 30 contracts in 1980 for the supply of an additional ,256,644 t of crushed material. This was necessary to facilitate major day labour and District linor Betterment programs for road upgrading throughout the year.

As a result of a heavy rainfall over the Christmas and Boxing Day holiday period, combined ith unseasonably warm temperatures throughout most of the Province which brought about snow elt on the coastal mountain ranges, serious flooding occurred in a number of districts in the ower Mainland and Vancouver Island.

The most serious damage occurred in the North Vancouver Highways District where several idges were lost in the Squamish–Pemberton area including one on the main highway. Several idges and culverts were washed out on the Duffey Lake Road between Mount Currie and illooet. A large bridge on the Upper Squamish Road over the Cheakamus River was destroyed id was temporarily replaced by a 140-foot Bailey bridge span. Flood damage in the North ancouver Highways District is estimated at 3.2 million dollars.

In the Chilliwack Highways District damage is estimated at 1.4 million dollars. The Trans-anada Highway was closed for several days as a result of a washout at Gordon Creek. The ope–Princeton Highway was closed for a day as a result of serious flash flooding between Hope id Allison Pass. The Silver Skagit Road at Hope was seriously damaged and estimated cost to pair it and other side roads in the area is $500,000.

Serious damage also occurred on Vancouver Island as a result of an extreme run-off in rivers d creeks north of Nanaimo.

The steel and concrete bridge over Meade Creek between Cowichan Lake Village and)ubou was seriously damaged and traffic is now detoured over a Bailey bridge span until repairs e effected.

SNOW AVALANCHE PROGRAM

The snow avalanche management program continues throughout the Province. Avalanche :ivity affecting highways was below average in the Province due to low amounts of snowfall.

Training in avalanche awareness and safety continues to be a key section of the avalanche)gram. Courses were held in cooperation with the National Research Council, Parks Canada and C.I.T., as well as several in-service courses. Over 200 employees received avalanche related lining during 1980.

Search and rescue equipment and safety plans have been upgraded and completed for :alanche areas throughout the Province.

The weather reporting network is continuing to operate successfully and, as a result, :alanche hazard forecasting is improving.

The avalanche hazard evaluation of proposed subdivisions, tramways and ski areas is ntinuing to increase as an activity in the avalanche program. Several detailed studies were npleted during 1980.

MAINTENANCE MANAGEMENT PROGRAM

The 1980/81 Provincial Maintenance Performance Budget resulted in significant changes to levels of service from the previous year as follows:

	Per Cent
Dust Control	+ 10
Regravelling Roads and Shoulders	− 40
Ditch Cleaning	+ 15
Winter Maintenance	− 10
Centreline Painting	+ 20
Flood Control	− 10

The total Performance Budget funding of $149,953,000 was supplemented by a Minor Betterment Program of $10,309,000 from capital funds to undertake minor improvements to the highway and road network.

The ongoing emphasis being placed on "planning and scheduling of work programs" continued and new techniques and procedures prompted good participation and interest among many districts and foremen. With these management tools, improved program completion and decision-making assistance was demonstrated.

Crushed gravel, asphalt-mix and guardrail manufacture between April, 1980, and March, 1981, by Ministry forces and by contract, produced quantities with usage as follows:

Production

	Ministry	Contract	Total	Usage	Unit Price
16 mm Crush	161,469 m^3	152,840 m^3	314,309 m^3	269,716 m^3	4.00/m^3
19 mm Crush	550,098 m^3	593,752 m^3	1,143,850 m^3	1,126,287 m^3	3.50/m^3
Asphalt	49,973 m^3	6,185 m^3	56,158 m^3	74,055 m^3	40.00/m^3
Guardrail	12,736 m^3	36,545 m^3	49,281 m^3	76,892 m^3	32.00/m^3

The total revenue generated through the sale (usage) of these materials was $10,508,948 while production costs totalled $8,977,226.

The installation of a "data entry" computer terminal network for each of the 40 districts and six regions has been underway since August, 1980. By March 1981, the installation was nearing completion, with only telephone communications to be installed. The system was fully operational as of January in three of the six regions and is providing districts with weekly reports on project and maintenance costs for control and accounting purposes. Activity performance and cost reports are also being produced weekly for the monitoring and control of programs at the local level. The turnaround of this information within a day or two of submitting data at each office has clearly assisted with making timely decisions to control operations and costs. In addition, the elimination of "manual procedures" and the keypunching of data has offset the cost of installing and operating the network. Further uses of the network, once fully in place, are already being planned in order to provide more efficient, accurate and timely processing of information of Highway District offices throughout the Province.

WORK ACTIVITIES PERFORMED BY MINISTRY MAINTENANCE CREWS

Activity #	Description	Man-Hours	Accomplishment	Average Unit Cost	Total Cost
100	Permanent Hand Patch	88,461.0	11,235.4 Cubic Metres	168.41	1,892,260
101	Machine Patch	67,293.5	75,595.1 Cubic Metres	59.97	4,534,035
102	Surface Treatment	6,627.1	27,132.5 Square Metres	12.37	335,734
103	Crack Seal	3,969.0	348.0 Lane Kilometres	521.04	181,322
104	Pavement Burning	1,946.4	200.9 Lane Kilometres	333.34	66,970
105	Temporary Hand Patch	87,831.1	10,359.5 Cubic Metres	172.25	1,784,491
106	Skin Hand Patch	11,698.1	1,104.3 Cubic Metres	202.29	223,396
111	Grading	161,900.0	732,577.3 Pass Kilometres	10.73	7,867,356
112	Dust Control	10,357.5	7,968.0 Pass Kilometres	295.07	2,351,196
113	Regravel Roads	101,483.0	526,860.0 Cubic Metres	6.98	3,682,204
120	Regravel Shoulders	70,309.8	276,556.3 Cubic Metres	8.54	2,364,336
121	Grade Shoulders	17,602.5	53,232.9 Pass Kilometres	12.64	673,337
122	Sundry Shoulder Maintenance	7,271.7	25,077.1 Cubic Metres	7.21	180,867
123	Curb Maintenance	1,931.1	19,211.9 Metres	2.06	39,735
130	Road Base Repair	51,923.5	195,748.8 Cubic Metres	8.94	1,751,442
131	Rail Xing	3,081.5	3,038.6 Man-Hours	47.94	145,689
139	Other Surface	7,015.1	7,046.1 Man-Hours	25.35	178,620
200	Ditch Cleaning	146,865.3	1,393,496.5 Metres	3.44	4,793,913
201	Grader Ditch	6,788.1	3,557.5 Kilometres	75.95	270,207
202	Culvert Maintenance	42,772.9	36,434.9 Culverts	23.58	859,212
203	Catch Basins	6,967.4	12,918.0 Catch Basins	11.31	146,174
204	Culvert Replacement	21,646.3	2,033.7 Culverts	448.50	912,130
209	Other Drainage	18,377.6	18,356.3 Man-Hours	21.81	400,418
220	Area Mowing	9,410.1	5,085.2 Hectares	62.79	319,309
221	Hand Brush	108,611.6	108,573.2 Man-Hours	15.18	1,648,554

222	Machine Brushing	15,418.9	3,945.2	Hectares	290.41	1,145,741
223	Swath Mowing	19,917.4	61,165.7	Pass Kilometres	10.60	648,848
230	Gardening	39,990.1	39,980.2	Man-Hours	19.38	774,943
231	Shoulder Sterile	2,473.2	3,118.2	Shoulder Kilometres	30.18	94,131
232	R/W Seeding	7,479.0	2,845.9	Hectares	314.59	895,307
233	Refertilize	2,630.0	1,013.4	Hectares	246.06	249,366
234	Hydroseeder Mulching	3,051.9	186.6	Hectares	1,535.92	286,604
235	Weed & Brush	10,186.8	3,838.8	Hectares	58.45	224,412
239	Other Vegetation	6,630.8	6,473.8	Man-Hours	18.24	118,129
250	Road Litter	45,935.9	110,637.7	Shoulder Kilometres	6.45	714,360
251	Barrels & Areas	45,652.8	133,780.8	Barrels	7.15	957,353
252	Appliances	8,984.2	9,728.5	Appliances	20.79	202,329
253	Rock Debris	25,472.3	25,702.4	Man-Hours	20.06	515,677
254	Road Surface Clean	14,059.3	33,059.3	Pass Kilometres	14.66	484,676
255	Rock Scaling	5,162.3	5,160.3	Man-Hours	22.72	117,287
256	Hand Surface Clean	13,698.9	13,689.6	Man-Hours	15.06	206,240
257	Street Surface Clean	13,507.2	37,171.2	Pass Kilometres	12.95	481,388
259	Other Debris	7,049.0	7,047.2	Man-Hours	20.24	142,695
300	Truck Plow	85,069.7	2,090,825.6	Plow Kilometres	1.08	2,278,497
301	Sanding	173,347.2	383,053.3	Cubic Metres	21.06	8,070,223
302	Chemical	19,282.2	28,647.8	Cubic Metres	103.69	2,970,609
303	Patrol	180,789.8	4,232,491.6	Kilometres	.95	4,044,096
304	Grader Plow	38,396.4	327,021.4	Plow Kilometres	5.63	1,843,059
305	Ice Blading	20,749.0	144,471.0	Plow Kilometres	6.71	970,608
306	Miscellaneous Snow Cleaning	24,846.5	24,981.8	Man-Hours	34.22	855,059
307	Drainage Thaw	28,307.7	28,286.1	Man-Hours	20.61	583,094
308	Stock Salt	9,581.3	65,028.3	Tonnes	69.20	4,499,979
[illegible]	[illegible]	1,927.8	20,003.0	Metres	2.54	50,956

310	Plowboards	1,482.6	2,907.5	Plow Boards	22.38	65,066
311	Grader Wing	14,963.2	105,950.2	Plow Kilometres	6.89	730,476
312	Snow Blowing	992.0	992.0	Man-Hours	28.79	28,565
319	Other Winter	34,545.3	34,861.0	Man-Hours	21.72	757,218
400	Signs	127,212.2	197,635.2	Posts	16.68	3,297,983
404	Posts (Yard)	9,829.9	33,365.5	Posts	4.04	135,011
405	Sign Fabrication	5,224.3	5,211.3	Man-Hours	17.16	89,462
430	Pavement Marking	8,999.2	89,277.6	Square Metres	2.75	245,542
431	Road Stud Installation	1,991.0	20,933.4	Studs	3.77	79,027
432	Line Paint	30,638.2	18,012.6	Pass Kilometres	137.97	2,485,214
433	Relector Installation	2,079.9	30,841.4	No. Reflectors	2.72	84,191
435	Mark Eradication	762.4	4,646.1	Sqare Metres	2.63	12,245
436	Prelining	8,736.2	2,130.4	Pass Kilometres	48.46	103,254
437	Plastic Line	3,809.4	288.2	Pass Kilometres	871.00	251,024
439	Other Signs & Mark	30,125.3	30,223.9	Man-Hours	16.89	510,582
450	Signal Maintenance	6,125.6	1,071.5	Intersections	127.06	136,146
451	Signal Repair	12,975.5	2,992.5	Intersections	105.60	316,014
452	Electrical Patrol	2,349.6	43,698.8	Kilometres	.94	41,468
459	Other Traffic Control	1,042.5	1,008.5	Man-Hours	34.57	34,868
460	Light Maintenance	4,001.6	2,053.9	No. Poles	54.06	111,038
461	Light Repair	14,917.5	6,057.5	No. Poles	96.84	586,665
465	Other Light	2,917.2	2,924.2	Man-Hours	30.12	88,077
466	Generator Maintenance	1,603.6	255.0	Generators	198.57	50,637
467	Generator Repair	1,793.1	248.0	Generators	135.45	33,592
469	Other Generator	41.0	41.0	Man-Hours	56.31	2,309
470	Service Equipment Maintenance	655.3	133.0	Units	101.98	13,564
471	Service Equipment Repair	551.6	100.5	Units	155.29	15,607
475	Control Device Repair	6,551.2	1,061.5	Devices	96.39	102,328

476	Control Device Manufacturing	348.0	171.0	Devices	59.76	10,220
479	Other Controls - Devices	962.6	962.6	Man-Hours	20.19	19,443
500	Bridge	24,267.3	1,884.7	Bridges	223.87	421,938
501	Bridge Rail Paint	13,284.9	21,992.5	Metres	11.35	249,710
502	Bridge Structure Paint	8,958.5	7,058.4	Litres	34.18	241,288
503	Sand Blast	8,692.1	442.5	Tonnes	476.33	210,778
504	Stream Channel	6,770.1	6,769.6	Man-Hours	28.28	191,457
505	Deck Surface Repair	4,403.0	8,834.6	Square Metres	24.11	213,083
506	Bridge Repair Maintenance	118,972.6	119,065.8	Man-Hours	25.35	3,019,245
507	Bridge Inspection	9,031.4	3,089.5	Bridges	58.43	180,529
508	Baily Bridge Maintenance	4,158.0	17,236.5	Pieces	4.91	84,654
509	Hand Paint	3,547.6	1,941.4	Litres	30.98	60,160
510	Tunnel Maintenance	2,099.0	2,099.0	Man-hours	99.21	208,242
513	Deck Oiling	3,765.3	142,207.0	Square Metres	.56	80,245
514	Plumbing	5,419.7	5,419.7	Man-Hours	18.52	100,408
515	Building Maintenance	23,709.1	23,706.1	Man-hours	25.99	616,189
516	Miscellaneous Carpentry	31,537.0	31,460.0	Man-Hours	18.06	568,234
517	Concrete Overlay	8.667.0	22,186.6	Square Metres	18.04	400,362
518	Scarifying	1,563.0	21,476.0	Square Metres	5.62	120,808
520	Concrete Guard Rail Maitenance	17,645.5	202,686.1	Metres	1.69	343,977
521	Fence Repair	7,715.5	129,943.1	Metres	1.29	168,581
522	Cattleguard Repair	3,579.0	403.0	Cattleguards	203.00	81,813
523	Steel & Timber Guardrail	3,208.7	27,678.7	Metres	2.12	58,868
524	Special Fence	2,410.3	2,410.3	Man-Hours	22.91	55,230
529	Other Structure Maintenance	19,241.4	19,181.2	Man-Hours	28.23	541,554
560	Screen Stockpiles	42,665.8	495,283.2	Cubic Metres	8.17	4,048,429
561	Pit Preparation Clean-Up	23,718.2	24,113.4	Man-Hours	65.07	1,569,094

563	Crush 19mm+	28,360.0	1,168,100.5	Tonnes	1.35	1,587,586
564	Crush 19mm-	9,140.5	296,505.0	Tonnes	1.79	533,048
565	Asphalt Mix	12,799.8	52,305.3	Cubic Metres	33.88	1,772,114
566	Quarrying	182.0	26,070.0	Cubic Metres	3.54	92,400
567	Grade Premix	245.5	773.0	Cubic Metres	27.18	21,015
568	Gravel Stockpiling	3,960.9	36,044.2	Cubic Metres	5.44	196,248
569	Other Materials	6,491.0	6,444.0	Man-hours	20.63	132,940
570	Ferry Operation	384.4	377.4	Man-Hours	45.16	17,046
571	Ferry Maintenance	4,714.5	4,666.5	Man-Hours	19.79	92,396
572	Dock Maintenance	39,698.4	39,717.4	Man-Hours	75.61	3,003,351
579	Other Ferry & Dock	17,687.6	17,728.4	Man-Hours	63.15	1,119,606
580	Equipment Service	130,890.2	51,125.4	No. Units	34.07	1,742,083
581	Equipment Repair	32,839.5	6,616.6	No. Units	82.91	548,594
582	Mechanical Travel	22,348.0	5,536.3	No. Units	69.37	384,069
583	Fueling	10,861.0	9,515.5	No. Units	22.72	216,262
588	Equipment Rental	.0	14,621.0	Units	413.11	6,040,173
590	Radio Repair	16,743.2	5,199.5	Units	61.15	317,994
591	Radio Installation	6,636.5	2,538.5	No. Units	41.54	105,450
592	Repeater System	1,783.9	301.0	No. Repeaters	98.04	29,512
600	Supervision	611,331.2	614,047.5	Man-Hours	14.35	8,814,824
601	Training & Safety	154,043.2	154,203.0	Man-Hours	14.44	2,227,793
602	Vacation	896,419.9	889,384.9	Man-Hours	11.29	10,046,625
603	Sick Leave	205,323.7	205,779.6	Man-Hours	11.09	2,283,694
604	W. C. B.	22,960.0	22,959.0	Man-Hours	11.16	256,442
605	Long Leave	17,672.2	17,697.7	Man-Hours	9.47	167,660
606	Stand-by	52,050.2	52,362.7	Man-Hours	11.70	613,010
609	Equipment Hauling	63,994.6	64,704.3	Man-Hours	34.11	2,207,672

610	Light Duties	2,094.7	2,094.7	Man-Hours	11.30	23,682
611	Travel 4 Hours +	27,221.3	27,129.3	Man-Hours	55.27	1,499,539
612	Traffic Patrol	133,520.6	134,104.2	Man-Hours	14.17	1,900,877
613	Yard Maintenance	128,190.2	128,151.0	Man-Hours	15.61	2,001,315
614	Stock Control	163,496.2	163,486.6	Man-Hours	19.53	3,193,425
615	Camp Operation	2,043.3	47,103.0	Meals	16.02	754,738
618	Tending	70,514.2	70,444.0	Man-Hours	14.85	1,046.438
619	Other Overhead	35,382.6	35,319.2	Man-Hours	38.11	1,346,103
651	Complaints	17,529.2	17,528.9	Man-Hours	13.44	235,638
653	Draft & Calculating	133,528.9	133,749.8	Man-Hours	11.81	1,579,774
654	Maintenance Management Office	87,997.2	87,935.6	Man-Hours	12.40	1,090,819
655	Maintenance Management Field	21,225.7	21,274.7	Man-Hours	15.26	324,790
656	Permits	31,305.3	12,150.0	Permits	32.21	391,439
658	Subdivisions	62,241.5	6,993.6	Subdivisions & LUC	111.54	780,101
660	Survey Project	165,208.9	165,872.0	Man-Hours	13.61	2,258,805
661	Avalanche Management	13,664.1	13,664.6	Man-Hours	20.24	276,676
666	District Administration	359,277.1	365,372.2	Man-Hours	14.77	5,400,073
668	Survey Other	109,099.4	108,971.8	Man-Hours	12.80	1,395,520
670	Secretarial	189,450.5	189,386.2	Man-Hours	11.75	2,227,047
671	General Accounting	43,171.6	271,717.6	1000 $ Monthly	1.79	486,701
672	Payroll & Personnel	91,935.6	41,778.9	100s Time Cards	24.68	1,031,123
673	Accounts Payable	81,832.5	110,862.0	No. Vouchers	8.31	921,338
679	District & Technical	25,277.8	25,095.1	Man-Hours	36.48	915,540
700	Clear & Grubbing	48,613.9	1,054.7	Hectares	2,504.04	2,641,012
701	Rock Blasting	7,252.6	183,665.7	Cubic Metres	3.78	694,662
702	Road Bed Construction	109,540.0	1,790.5	Kilometres	8,533,65	15,279,518
703	Road Widening	56,367.9	931.5	Kilometres	3,693.24	3,440,260
704	Shoulder Widening	30,859.8	456.8	Kilometres	3,073.94	1,404,180
705	Ditch Construction	27,920.9	222,934.1	Metres	7.43	1,657,323

707	Multi-Plate	10,163.6	1,140.9	Metres	560.60	636,596
708	Machine Paving	15,465.6	96,112.5	Tonnes	38.45	3,696,255
709	Road/Pulvi Mix	8,848.3	101.5	Kilometres	7,672.12	778,721
710	Guardrail Installation	47,110.9	88,882.8	Metres	39.41	3,503,362
711	Seal Coating	5,702.0	303.5	Kilometres	1,767.05	536,301
712	R/W Landscaping	7,445.3	214.1	Hectares	1,611.15	344,948
713	R/W Fencing	24,242.2	332,140.6	Metres	4.34	1,443,387
714	Rest Area Development	15,380.9	16,106.9	Man-Hours	32.92	530,317
715	Retaining Wall	8,519.6	2,033.5	Square Metres	119.26	242,516
716	Rip Rap	4,846.4	47,057.7	Cubic Metres	8.18	385,174
717	Curb & Gutter	2,515.2	10,564.8	Metres	16.69	176,335
718	Manhole Installation	1,749.7	54.0	Number	858.74	46,372
719	Cattleguards	1,767.8	211.5	Number	582.93	123,291
720	Chainlink Fence	768.3	527.9	Metres	29.29	15,463
721	Yard Betterment	16,381.5	16,441.4	Man-Hours	35.94	591,063
722	Building Construction	13,553.9	13,553.9	Man-Hours	87.29	1,183,180
723	Dock Construction	9,327.6	9,327.6	Man-Hours	1,254.22	11,698,905
724	Bridge Construction	90,831.6	90,785.8	Man-Hours	46.23	4,197,407
725	Rest Area Application	1,184.4	305.0	Number	86.99	26,533
726	Electrical Construction	40,745.5	40,678.9	Man-Hours	37.00	1,505,517
727	Gravelling	96,974.4	2,146,382.7	Cubic Metres	5.17	11,113,995
728	Asphalt Curb	2,228.7	10,272.8	Metres	5.44	55,924
729	Traffic Islands	1,135.3	1,283.2	Square Metres	19.78	25,384
730	Shoulder Paving	4,087.7	4,466.7	Tonnes	56.63	252,970
731	Shoulder Stabilization	2,127.9	21.2	Shoulder Kilometres	4,014.43	85,106
732	Shoulder Surface Treatment	137.5	3.3	Shoulder Kilometres	2,072.72	6,840
733	Rock Drilling	6,431.9	152,851.5	Metres	8.53	1,304,582
734	Slope Surface	90.7	100.0	Square Metres	65.21	6,521

735	Gravel Treatment	2,184.2	50.9	Kilometres	4,121.00	209,759
737	690mm Guardrail Fabrication	11,134.5	12,737.0	Metres	29.30	373,276
738	Road Stabilization	3,569.2	147.3	Kilometres	1,395.61	205,574
799	Other Projects	54,734.4	54,678.2	Man-Hours	52.35	2,862,690
810	Benkleman Beam	1,944.2	356.0	Number	72.80	25,919
900	Flood Control	104,375.7	104,899.6	Man-Hours	48.99	5,140,016
901	Slide Removal	34,632.7	34,626.7	Man-Hours	32.56	1,127,709
902	Snow Slides	1,575.1	1,556.1	Man-Hours	38.71	60,244
903	Winter Repair	80,650.9	81,868.8	Man-Hours	31.43	2,573,270
904	Island Maintenance	9,683.1	9,732.6	Man-Hours	18.90	183,947
909	Other E.O.M.	19,448.2	19,467.9	Man-Hours	30.63	596,319
996	Material Write-off	.0	693,895.3	Number $	1.00	695,429
998	Stock Transfer	.0	58.0	Number	38,285.27	2,220,546
999	District Overhead	204.3	384,289.2	Number $	8.62	3,313,682

MAINTENANCE MANAGEMENT

ROAD FEATURE INVENTORY

SUMMER CLASSIFICATIONS - DISTRICT TOTALS OF ALL CLASSES

Feature	Measure	Totals	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6
SURFACE TYPE	Lane Kilometres							
Hot Mix		26,464.1	4,179.2	5,394.3	4,099.0	6,083.6	2,276.2	4,431.8
Cold Mix		10,020.3	643.1	3,901.5	2,767.3	363.0	209.6	2,135.8
Concrete		48.3	46.3		1.8			.2
Treated		930.6		91.4	505.9	135.2	48.0	150.1
Gravel		40,045.2	1,192.9	10,036.7	4,098.5	16,891.3	5,174.7	2,651.1
Dirt		6,441.2	22.1	1,855.3	771.4	3,398.1	362.2	32.1
Other		1,043.7	173.5	180.2	570.6	68.8	48.9	1.7
TOTAL		84,993.4	6,257.1	21,459.4	12,814.5	26,940.0	8,119.6	9,402.8
PROFILE	Lane Kilometres							
4-Lane Dvd.		1,047.2	821.8	65.7			17.6	142.1
4-Lane Undvd.		1,640.1	604.1	478.1	34.7	127.6	23.2	372.4
2-Lane		78,372.1	4,543.9	19,597.5	11,522.4	26,200.3	7,824.7	8,683.3
1-Lane		2,941.2	107.4	1,171.4	712.8	560.8	200.7	188.1
Other		992.8	179.9	146.7	544.6	51.3	53.4	16.9
TOTAL		84,993.4	6,257.1	21,459.4	12,814.5	26,940.0	8,119.6	9,402.8
SHOULDERS	Kilometres							
-1 m.Pvd.		3,761.5	785.0	487.9	346.0	955.8	811.5	375.3
-1 m.Trd.		547.7	17.5	54.7	13.8	125.2	336.0	.5
-1 m.Grv.		13,145.0	1,222.5	4,193.4	2,596.2	1,406.7	945.4	2,780.8
+1 m.Pvd.		3,911.0	970.2	649.8	989.9	719.6	49.8	531.7
+1 m.Trd.		3,725.6	314.8	1,418.3	557.4	1,020.9	355.5	58.7
+1 m.Grv.		12,467.2	1,177.5	3,267.1	2,403.6	2,770.2	695.3	2,153.5
DITCHES	Kilometres	44,285.8	2,531.9	8,670.6	5,288.1	17,457.3	5,227.3	5,110.6
CULVERTS	Each							
Entrance		61,141.0	7,574.0	9,576.0	4,792.0	16,581.0	2,715.0	19,903.0
Road Way		81,244.0	6,430.0	14,711.0	13,224.0	22,324.0	8,731.0	15,804.0
DUST SITES	Each	20,721.0	1,941.0	5,584.0	2,527.0	4,936.0	3,389.0	2,344.0
SIGNS	Each							
Structure		1,656.0	719.0	417.0	99.0	240.0	48.0	133.0
Post		85,901.0	19,737.0	18,339.0	14,123.0	13,638.0	6,076.0	13,988.0
GUARDRAIL	Metres	76,084.0	12,625.0	31,229.0	8,443.0	11,179.0	7,486.0	5,122.0
Steel & Wood								
& Post		761,435.0	265,759.0	111,368.0	183,485.0	47,441.0	56,560.0	96,822.0
REST AREA	Each							
Lay By		644.0	131.0	175.0	200.0	102.0	39.0	17.0
Rest Stop		236.0	9.0	47.0	60.0	61.0	26.0	33.0
SCATTER BARREL	Each	2,264.0	207.0	587.0	442.0	599.0	270.0	159.0
SPECIAL LANES	Kilometres	1,338.4	335.2	284.2	228.2	261.5	74.6	154.7
SPLINEATORS	Each	39,840.0	11,732.0	6,446.0	6,453.0	6,200.0	3,956.0	5,053.0
SWING								
Path	Kilometres	55,473.9	5,738.2	10,441.7	7,300.9	13,691.5	7,634.1	10,667.5
Area	Hectores	1,583.0	728.0	112.0	47.0	616.0		80.0
TILROAD X	Each	785.0	92.0	191.0	169.0	171.0	49.0	113.0
TTLE GUARD	Each	1,546.0	16.0	880.0	225.0	357.0	65.0	3.0
TUNNELS & OW SHEDS	Kilometres	65.0	23.0	16.0	10.0	2.0		14.0
TCH BASINS	Each	10,540.0	4,374.0	991.0	1,071.0	1,865.0	642.0	1,597.0
CB & GUTTER	Metres	1,256,722	447,745.0	229,834.0	152,566.0	179,242.0	56,970.0	190,415.0
HOLES	Each	1,739.0	807.0	246.0	87.0	258.0	92.0	249.0

ROADSIDE DEVELOPMENT PROGRAM

The Roadside Development Program was particularly active during the 1980 season in the area of landscape beautification. Numerous major projects that were either underway or in the planning stages the previous year were completed this season.

Greater Victoria area landscape projects included the Blanshard Street Arterial and the Trans-Canada Highway. On the lower mainland, landscape work was carried out on Highway 1 in North Vancouver (Capilano Road–Lynn Valley), the west end Port Mann Bridge embankments and three freeway interchanges in Burnaby (Willingdon, Deer Lake and Cariboo Road). Two projects were undertaken in the interior of the Province and involved the landscaping of Highway 3 Bypass in Salmo and the Halston Rail Overhead in Kamloops.

All major work was contracted out to landscaping firms and involved the expenditure of approximately $625,000 in 1980/81. Many minor landscape improvements were made by Ministry crews throughout the Province both to new and existing roadways.

The 1980/81 Hydroseeding Program totalled approximately 3,900 ha, of which 2,816 ha were seeded, 209 ha were mulched and 875 ha were fertilized.

Chemical vegetation control was carried out in Regions 1 through 4. Herbicides were used to sterilize 3,188 km of road shoulder and treat 535 ha of noxious weed growth. Poor weather conditions and late starts in some areas kept totals somewhat lower than they would have been otherwise.

Rest area improvement continued to be a high priority item. According to sample traffic counts obtained from selected rest areas throughout the Province, it is estimated that over 2,000,000 vehicles stopped at highway rest area facilities during the months of June up to and including October, 1980.

Permanent major restroom buildings were constructed at Bradner Road and Cole Road rest areas near Abbotsford, at a cost of approximately $200,000. A permanent restroom building was also established at a new rest area adjacent to 108 Mile historic site near 100 Mile House. Six existing rest areas underwent major upgrading to accommodate flush toilets. This work has involved well drilling, installation of septic fields and construction of a sewage lagoon. Due to the remoteness and lack of utility services to many sites, major upgrading is proving to be very challenging. Several new rest areas were initiated on Highway 37.

Gravel pit rehabilitation work is becoming an increasingly important part of the Roadside Development Program. Improvements were made to eight locations in Regions 2 and 3.

Maintenance of six major landscape installations on the lower mainland was carried out under contract to private firms. A total of 21 ha was maintained for approximately $100,000.

CENTRELINE AND PAVEMENT MARKING PROGRAM

During the 1980 season, seven centreline crews, two crosswalk crews, one thermoplastic crew and one reflective marker crew were employed.

In Region 1 construction on the Lougheed Highway and at U.B.C., and paving in the Fraser Canyon and on Highway 99 kept this centreline crew busy in addition to their usual repainting.

Region 2 had major construction in the Vernon, Kelowna and Keremeos areas that required the centreline crew to keep on top of the jobs because of major changes in traffic patterns.

Region 3 crew was fully utilized with new pavement and construction in the Nelson, Creston, Cranbrook and Fernie areas, in addition to the usual repainting.

Region 4's new pavement in the Prince George, Dawson Creek, Fort St. John and McBride areas kept this crew moving to capacity.

Region 5 did not have too much new pavement this year, so the crew was busy repainting most of the season. However, this year saw the crew in the Stewart–Dease Lake area for the first time.

Region 6 also had a light year of paving, with the only jobs of any consequence in the ampbell River and Duncan areas, therefore they were able to catch up on a lot of the repaint.

The thermoplastic crew had a productive season as they made their first appearance in Region in the Rossland, Creston and Cranbrook areas. They also made their first trip into Region 4 to the uesnel, Prince George, Dawson Creek and Fort St. John Districts. It will be very interesting to e how this material fares in the colder parts of the Province.

The reflective marker crew stayed in Region 1 this season, reinstalling catseyes on Highway and replacing "Stimsonite" reflectors on the major arterials.

Statistics for Work Completed to the end of November, 1980:

Centrelines, edge and lane lines painted	17,895	km
Pre-lining	2,078	km
Crosswalks painted	124	
Stop-lines painted	302	
Arrows painted	938	
Parking stalls and digits painted	52	
Traffic Islands painted	1,007	
Centreline, curbs, no-post and guardrail painted	12,619	m
School advance markings	4	
Gores	47	
Eradication		
Paint	8,905	m
Thermoplastic	616	m
Catseyes and Reflective Road Markings		
Catseye castings	1,196	
Catseye rubber inserts	1,383	
Guardrail delineators	409	
Reflective road markers	36,402	
Materials used to the end of November		
Yellow paint	620,353	l
White paint	247,907	l
Glass bead	506,766	kg
1980 Thermoplastic Totals		
Total km thermoplastic centreline	144	
Thermoplastic Cross-walks	105	
Thermoplastic stop lines	813	
Thermoplastic advance markings	30	
Thermoplastic No-Park-Zone	1	
R.C.M.P. Surveillance lines (sets)	34	
Material Usage		
Total kg white thermoplastic	141,500	
Total kg yellow thermoplastic	22,974	
Total	164,474	
Total glass bead	3,629	kg
Total M white plastix	1,118	
Total M yellow plastix	986	
Total	2,104	

REPORT OF DIRECTOR OF EQUIPMENT SERVICES

E. A. LUND

EQUIPMENT SECTION

The quality and availability of the Ministry equipment fleet was improved during the 1980–81 fiscal year by the acquisition of better equipment models and the introduction of a comprehensive Preventive Maintenance Program. As has been the case in the past few years the cost of new equipment and repair parts continued to inflate at an annual rate of 15 to 20 per cent.

The energy conservation program was continued by purchasing diesel engines whenever possible. A pilot propane conversion project was implemented at the Mission Garage for test purposes. To gain practical knowledge in the use and repair of propane-fuelled trucks, 11 vehicles were fully converted to dry gas fuel and a refilling station was installed in the Ministry yard.

The electronic sander control program was expanded to 24 units for field testing with unsatisfactory results due to the inability of the equipment to stand up to the harsh cold, salt and environment. More rugged equipment is being produced for the 1981–82 winter for further field trials.

A prototype body sander was constructed and field tested at the Langford Shop. The new type sander would enable sand to be placed in front of the sander truck drive wheels and still allow the use of the standard underbody snow plow. In addition, the new design would reduce the centre of gravity of the sand load over both the traditional hopper sander and the Ministry tailgate sander.

A fleet conversion to a "Quick-Change" system will allow the interchange of all dump boxes, body sanders and other special load-carrying attachments such as flat decks, etc. This program has far-reaching implications in that future replacement of dump boxes, truck chassis and body sanders will be carried out on an individual need rather than a complete unit basis.

The Equipment Management System became more reliable this year and through the use of better management information the Branch was able to provide a better service at a cost below the inflation rate and for an enlarged fleet. The Provincial average shop rate was $22.50 per mechanic hour and a total of 1,176,500 manhours was used by the Branch to maintain the fleet. This year 59 per cent of the manhours were mechanic time and the balance was overhead such as holidays, supervision, stock control, etc.

There were 228 large trucks, 323 transportation vehicles, 35 graders, 17 loaders, 25 farm type tractors and numerous items of small equipment and tools purchased.

There were 240 requests for the approval to hire transportation units and 713 requests for approval to hire construction equipment at other than standard rates.

The Langford Fabrication Shop manufactured 60 Ministry tailgate sanders, custom fitted 36 larger trucks with underbody plows and hydraulics, and constructed hydraulic systems, underbody plows and front mounts for snow plows for 40 small dump trucks.

This Branch in co-operation with the Purchasing Commission held 15 auctions of used equipment in 5 locations in the Province.

An inventory of active Ministry Equipment by classification follows.

GRADING CONTRACTS PROGRESS - 1980/81 (continued)

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-3719	D.L. 1208 - D.L. 1879, Kitwanga - Meziadin Lake Highway	37	17.97	Dec/78	Sept/80	100	Two-lane reconstruction to gravel surfacing.
C-3720	Wycliffe - Cranbrook Section of Kimberley Highway and Cranbrook Airport Access Road	95A	14.98	July/79	Sept/80	100	Two-lane reconstruction including paving.
C-3760	Construction: Coquihalla Highway, Nicolum Creek - Peers Creek	-	4.8	Dec/78	-	95	Anticipated completion in May 1981.
C-3912	U.B.C. Endowment Lands, Reconstruction: 4 Lanes, 16th Avenue and S.W. Marine Drive	-	4.75	July/79	-	95	Final paving scheduled for summer 1981.
C-3913	Cassiar Highway, Construction: D.L. 1879 - Cranberry Bridge #1	37	18.36	Dec/79	-	75	Two-lane reconstruction will complete in summer 1981.
C-3983	Reconstruction: Fraser Highway - 62nd Avenue, on King George VI Highway	99A	7.44	Mar/79	June/80	100	Four-lane reconstruction.
C-3997	Contract #2, Marine Way, Boundary Road - Byrne Road, Sta. 0+00 - Sta. 101+97	-	3.1	Nov/79	Mar/81	100	New four-lane facility completed to top of gravel.
C-4092	Contract #2, Mary Hill By-Pass, Stage 1, Cape Horn - Pitt River Highway	-	2.4	July/79	Mar/81	100	First section of new by-pass route near Coquitlam.
C-4093	Construction of Haney Business By-Pass, Maple Ridge, B.C.	7	3.0	July/79	-	95	Minor paving and electrical to finish.
C-4101	Lillooet - Cache Creek Highway, Gibbs Creek - Sallus Creek	12	4.14	July/79	June/80	100	Two-lane reconstruction, including extension to Sallus Creek culvert.
C-4102	*93 Mile - Little Fort,* Little Fort - Phinetta Lake, Section 2	24	16.05	Nov/79	-	85	Two-lane reconstruction near Little Fort.
C-4156	Reconstruction, Barkerville Highway, Mitchell Bridge Elimination	26	1.86	Oct/79	-	95	Final lift of pavement scheduled for late spring 1981.
C-4291	Abbotsford - Mission Highway, Mission Roadworks, Northwest Approach	11	1.35	Jan/80	-	95	Final lift of pavement scheduled for late spring 1981.

EQUIPMENT FLEET - continued

As of March 31, 1981

	6001	Skidoo	2
	6002	Snowmobile	9
	6003	Motorcycle	4
	6010	Hoist	5
	6020	Sprayer	14
	6021	Flame Thrower	11
	6022	Scale	6
	6023	Post Driver	4
	6024	Steamer	20
	6025	Road Planer	1
	6030	Scraper	7
	6090	Miscellaneous	142
P.	46XX	Rollers	135
	4700	Hand Tampers	216
Q.	50XX	Crawler Tractors	61
R.	44XX	Loaders and backhoes	175
S.	1000 to 9320	Heavy Trucks	1662
T.	6500 & 6501	Lowbed Highboy Trailers	7
	6502	Tilt and Flatdeck Trailers	42
	6503	Utility Trailers	107
	6510 to 6512	Unheated Storage Trailers	60
	6520 to 6522	Kitchen, Washcar Trailers	39
	6523 to 6525	Office, Sleeper Trailers	129
	6526 to 6528	Assembly Trailers	48
	6530	Misc. Trailers	130
U.	6250	Licensed Non-rental	29
V.	6200	SHop Equipment	1834
W.	3302 to 3303	Rock Breakers, Brush Saws	136
Z.	3300	Brush Cutters	24
	3301	Chipper	48

A Benkelman Beam Test Truck constructed to a Ministry standard by the Nanaimo Shop in 1980.

One and one-half-ton truck with lity body and advance warning ar- w board. Purchased and outfitted in arch 1981 as an additional 3uffer" truck for all Centreline inting Crews.

"Vactor" catch basin cleaner purchased for use in the lower mainland. Assigned unit number G-0381 and nicknamed "Sucker 1".

Shows I.H.C. tandem truck, one of twelve. Purchased for Province-wide fleet use. Note the Ministry designed and installed front snow plow mount and underbody plow.

Shows one of twelve. Small self-propelled brooms that are being supplied to maintenance crews to replace the pull type brooms previously used.

LANGFORD SIGN SHOP

The Langford Sign Shop produced all the Ministry's road sign requirements and in addition completed a large order of special signs for the Ministry of Lands, Parks and Housing.

In total, 20, 378 m^2 of signs were produced resulting in 50, 421 signs and 30, 833 small reflective delineators.

After four years of erratic steel sign blank suppliers, the problem was resolved by the utilization of Ministry of Attorney General facilities to produce a steady supply of sign blanks. Some new equipment was purchased to increase production of steel blank cleaning and at the same time provide a healthier environment for the shop employees using the toxic chemicals.

At the beginning of the fiscal year the Sign Shop was up to 15 months behind on the delivery of some orders due to metal sign blanks supply problems and some labour problems involving illegal walk-outs and disruptions. By the end of the fiscal year the shop productivity had risen dramatically and filled orders were down to a maximum of 14 weeks delay. Continued improvement in the shipping time to about 30 days is anticipated.

H. T. baking overlays onto metal sign blanks using new traffic control ahead symbol. 2,400 of these were made in conversion from words to symbols.

Technical Stores

This service group is located in Langley and supplies all the surveying equipment and most of the technical equipment and supplies to the Ministry. On April 1, 1980 the Headquarters Stores changed its name to "Technical Stores" and was placed in the Equipment Services Branch for administration purposes.

As well as suplying many small technical instruments and equipment there was a large volume of expandable supplies sent out to field crews, such as flagging tape, concrete casting cylinders, drafting papers, etc.

New survey equipment purchased during 1980: 23 Theodolites, 20 Surveyor Levels and 3 Electronic Distance Measuring Devices.

The group also manufactured 8 Marshall Hammer Bases and 6 Pavement Smoothness Gauges.

FERRIES

During the past year service was provided on 36 routes under the jurisdiction of the Ministry. This was accomplished by a fleet consisting of 22 major ferries, 7 reaction ferries, 4 cable ferries, 5 subsidized ferries and 5 miscellaneous ferries. There are also 2 tugboats and 4 barges for emergency purposes.

TRAFFIC

The fleet carried 3,896,018 vehicles and 8,909,481 passengers during the year. The totals were 3,689,753 and 8,472,003 respectively, the previous year.

OPERATION

Burns Lake District

The floating trim dock on Francois Lake was doubled in size and will now lift the MV *Omineca Princess* completely out of the water for hull inspection.

Nelson District

The hull of the ex-West Creston ferry was moved to Glade where it was completely refurbished with new machinery and housework, etc. District forces are to be complimented for the excellent work and for establishing a much improved ferry service.

Courtenay Ferry District

The vessel *Tachek* operated in conjunction with the regular vessel *Quadra Queen* on the Campbell River to Quadra Island route during the summer months. This virtually eliminated the long line-ups.

REVENUE

Comox-Powell River	$1,616,863.90
Cortes Island	107,560.05
Denman Island	121,372.90
Gabriola Island	335,714.48
Hornby Island	43,388.40
Nimpkish	241,857.60
Quadra Island	293,940.24
Queen Charlotte Islands	123,404.04
Texada Island	175,996.30
Thetis Island	64,115.40
Woodfibre	17,029.00
Total	$3,141,242.31

MINISTRY OF TRANSPORTATION & HIGHWAYS

EQUIPMENT SERVICES BRANCH

RECORD OF FERRY TRAFFIC

FISCAL YEAR 1980-81

	NUMBER OF ROUND TRIPS	AUTOS AND DRIVERS	PASSENGERS NOT DRIVERS	TRUCKS ALL TYPES	TRAILERS AND SEMI-TRAILERS	MOTOR BUSES	MOTOR CYCLES	MISCELLANEOUS VEHICLES	TOTAL VEHICLES
ALBION	28,553	860,138	763,225	33,697	9,627	604	15,538	2	919,606
ARROW LAKE (UPPER)	6,989	115,154	141,932	7,978	11,605	653	1,177	2,863	139,430
ARROW PARK	9,413	19,837	34,821	2,089	1,163	1,001	44	688	24,822
BARNSTON ISLAND	35,831	56,075	97,525	28,824	2,035	1,041	853	97	88,925
BIG BAR	1,840	9	3,146	1,717	144	--	41	18	1,929
CASTLEGAR	38,476	316,593	402,230	170,572	2,562	1,432	2,796	--	493,955
CLAYHURST	17,227	8,093	34,177	26,637	698	5	57	636	36,126
COMOX - POWELL RIVER	1,471	86,936	248,192	3,373	4,518	122	1,435	--	96,384
CORTES ISLAND	2,154	29,013	41,452	1,591	814	182	177	25	31,802
DENMAN ISLAND	7,428	180,130	230,786	6,414	3,372	1,462	934	64	194,376
DODGE COVE	314	--	1,949	--	--	--	--	--	--
FRANCOIS LAKE	8,248	130,835	343,885	19,693	11,335	772	176	109	162,920
GABRIOLA ISLAND	6,152	281,282	419,056	7,677	2,474	823	2,169	10	294,435
GLADE	38,197	56,669	83,937	33,551	263	1,086	480	108	92,157
HARROP	42,710	114,771	162,586	60,814	1,939	1,991	2,668	170	182,353
HORNBY ISLAND	5,200	85,143	124,488	2,775	2,177	517	805	38	91,455
ISLE PIERRE	2,199	726	2,405	1,247	--	--	15	11	1,999
KOOTENAY LAKE	4,553	91,774	206,262	61,867	12,699	369	2,073	--	168,782
LASQUETI ISLAND	731	--	18,788	--	--	--	--	--	--
LITTLE FORT	7,566	2,032	16,785	3,792	--	--	13	93	5,930
LYTTON	21,751	9,154	85,773	14,818	165	1,792	352	39	26,320
MARGUERITE	10,074	5,361	21,953	8,814	301	120	98	34	14,728
MCLURE	14,957	7,962	25,798	10,063	--	--	--	--	18,025
NEEDLES	15,038	50,090	286,783	63,723	6,425	1,009	1,011	546	122,804
NIMPKISH	2,710	60,374	155,138	4,921	827	266	225	65	66,678
NORTH BEND	65,459	45,225	156,603	41,652	95	1,709	1,812	2	90,495
QUATHIASKI COVE	7,528	271,354	374,239	10,763	7,227	94	3,824	--	293,262
QUEEN CHARLOTTE ISLANDS	3,415	70,319	64,553	4,986	1,274	584	54	66	77,283
SHUSWAP LAKE	175	160	875	297	133	4	5	109	708
TEXADA ISLAND	5,636	72,290	115,283	2,569	1,049	56	628	23	76,615
THETIS ISLAND	3,754	60,430	156,207	2,260	281	103	139	19	63,232
USK	14,514	6,958	33,099	5,931	--	--	251	4	13,144
WOODFIBRE	3,934	2,801	247,699	1,479	965	2	52	89	5,338
TOTAL:	432,197	3,097,688	5,101,630	646,534	88,167	17,799	39,902	5,928	3,996,018

COMMUNICATIONS

During the year, the whole of Region 3 mobile radio system was upgraded. All mountain-top mobile repeaters, associated control equipment and all mobile and base radio equipment were replaced. Region 2 was connected to Region 3 by radio, replacing a B.C. Telephone-supplied land line directly connecting the Regional radio operators. To improve overall radio coverage in Region 3, new radio repeaters were installed at Elko, New Denver and Lardeau. Repeaters at Trout Lake and Mica Creek were moved.

In Region 6, the Port Hardy radio repeater was moved for improved coverage. In Region 2, increased coverage was provided by adding repeaters at Duffey Lake and Cherryville. The Highways Ministry now has operating 115 radio repeater sites serving 3,650 mobile, 400 portable, and 250 base station radios.

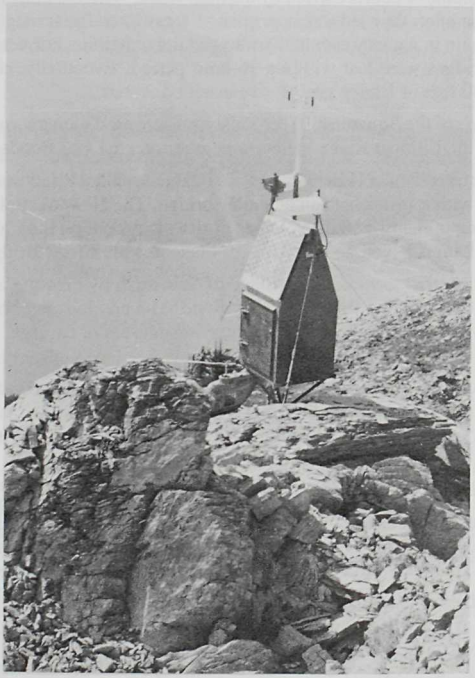
Satellite television receivers were installed at Good Hope Lake, Slim Creek, 50 Mile and Kootenay Pass Camps. These receivers provide the CBC northern television service which originates in Vancouver. This signal is repeated through the Canadian Domestic Satellite Anik "A".

At headquarters the design of new radios to be used at our repeater sites throughout the Province has been completed. Prototypes are being built for in-service testing during 1981. These radios will go into full service in 1982 when the radio equipment throughout Region 4 is replaced. Our existing repeater equipment is nearing the end of its useful life. Failure rates are increasing and parts are becoming difficult to locate.

A new Traveller's Information System was designed to be used at selected locations in the Province. This system, essentially a low power AM broadcast transmitter, can be heard by the travelling motorist who is able to dial up 1610 KHz on his or her AM radio. In this way updated road conditions can be transmitted to the motorist. The system is able to handle messages up to 60 seconds in length.

An additional Communications Technician 3 has been added to our staff at the Cloverdale Office. He will be principally responsible for the repair, modification, and testing of our radio repeater equipment.

New Steel solar powered mobile repeater near Trout Lake, B.C.



Similar Unit near Lardeau, B.C.

REPORT OF THE ASSISTANT DEPUTY MINISTER OF OPERATIONS (HIGHWAYS)

REGIONAL REPORTS

REGION 1

(M. J. O'Connor, Regional Highways Engineer, Burnaby)
North Vancouver, Gibsons, New Westminster,
Chilliwack and Hope Districts

NORTH VANCOUVER DISTRICT

Roads

Maintenance: The district was deluged with rain to the 3,000 m elevation in late December and early January resulting in a rapid snow-melt producing the 25-year flood event in many of the drainage systems in the Squamish, Whistler, and Pemberton areas, causing an estimated $2.5 million damage to the road and bridge network. The severe flooding forced the evacuation of many residents from their homes in Squamish.

Garibaldi Highway 99 was severed by floodwaters at various locations: Culliton Creek between Squamish and Whistler; at Nineteen Mile Creek in Whistler, and at both the Soo and Rutherford Rivers between Whistler and Pemberton.

Twin 14-foot multiplate culverts at Culliton Creek were substantially damaged when hit with a large volume of debris carried by the high water. With only one pipe partially flowing and a 10 m head at the inlet, the road was kept open to one-way traffic throughout the holidays. Repeated high waters again in January eventually plugged the remaining culvert and, in addition, two temporary detour bridges were lost within a 36-hour period. Eventually, after considerable stream control work, 140 feet of Bailey bridge was installed.

Much of the Squamish River Valley was covered with approximately 2 m of floodwater, and much of the Lillooet River Valley in Pemberton area was flooded to a 1 m depth.

The Cheakamus II Bridge on the Squamish Valley Road was washed out and has since been replaced with a 140-foot span of Bailey bridge. The New Westminster bridge crew assisted in the installation of the two Baileys. Other bridges lost were on the Callaghan Pit access road crossing the Cheakamus River, and the Upper Nineteen Mile Creek Bridge in Whistler.

The District assisted the Village of Squamish by erecting a new steel bridge across Lower Culliton Creek on the Paradise Valley Road. The previous log bridge was also washed out by the floods. Many other bridges suffered varying degrees of damage, but were restored to traffic with minimal delay.

A portable asphalt recycler was acquired for the District, and its use is gaining high favour in remote areas with no supply of hot mix. Cold-milled asphalt is the primary material currently being recycled. Extensive machine patching was carried out in the Squamish area.

Considerable hand brushing was undertaken on Highway 1 and a lengthy Gradall brushcutting project was carried out along Garibaldi Highway 99.

A very mild winter was experienced with the following minimal snowfalls recorded: North Vancouver 57 cm, Bowen Island 33 cm, Squamish 109 cm, Whistler 231 cm and Pemberton 180 cm. This is less than half the previous year's moderate snow accumulation.

Curb returns were constructed in the District's urban areas to accommodate wheelchairs and bicycles. A portable vacu-sweep was acquired to improve sidewalk conditions on Lions Gate and Second Narrows Bridge.

A guardrail reflectorization program on Highway 99 north of Horseshoe Bay was favourably received.

Construction: A gravelling program in preparation for paving, and some upgrading took lace on the Pemberton Portage Road.

Major reconstruction continued on the upgrading of Whistler to Pemberton sections on the Garibaldi Highway 99. This includes improving alignment and widening.

An additional truck lane was added to the Horseshoe Bay to Squamish section on the Garibaldi Highway 99 near Tunnel Point Rest Area.

A multiplate culvert was installed on the Pemberton Meadows Road, replacing the Arn Bridge, and a twin pipe installation now replaces the Batt Bridge on the Brohm Bridge Section, of Highway 99.

A paving and median barrier installation project was undertaken by Paving Branch on the Trans-Canada Highway 1 between Second Narrows Bridge and Fern Street Interchange.

Throughout the year, the District contracted the following projects—Paving and gravelling agle Cliff Road, Bowen Island (including a stockpile of crush); Paving the Owl Creek Bridge and pproaches—Pemberton Portage Road; Paving Highway 99 channelization projects at Sunset oint, Lions Bay and at Porteau Provincial Park. (The contract included paving the roads and boat mp within the new park). The Tunnel Point Rest Area was also paved. Finally, at year end, the istrict was able to contract a 1.6 km pavement overlay on Bowen Island, commencing at Snug ove; and a miscellaneous patch paving contract on Garibaldi Highway 99.

Extensive modifications were made to the Eagle Ridge truck stop on the Trans-Canada ighway 1 leading to Horseshoe Bay. A shoulder widening and enclosed drainage project to commodate pedestrians was completed by the North Vancouver District Municipality, spon-ored by the Ministry. This involved approximately 0.5 km section of the Dollarton Highway.

The District Guardrail Program progressed, with another 4,000 m placed on Highway 99 etween Horseshoe Bay and Squamish, with an additional 1,000 m placed in stock.

Bridges

The Shaw Bridge on the Pemberton Meadows Road was reconstructed by the District bridge ew. The new structure is concrete box beams placed on timber pilings. Nine concrete beams ere also purchased for the River of Golden Dreams Bridge to be constructed later in 1981.

Buildings

British Columbia Buildings Corporation provided a ventilation system for the District office.

Ferries

Normal operation continued for the *Garibaldi II* crossing Howe Sound to Woodfibre.

GIBSONS DISTRICT

Roads

Maintenance: The normal maintenance program was carried out as planned. Major patching as undertaken on Highway 101 in the Pender Harbour area and extra work was done on brushing. Winter maintenance was exceptionally light. Heavy rainfall during December resulted in minor mage only. 1.0 km of road was reconstructed along with other minor improvements on our inor Betterment Program.

Construction: 1.5 km of third lane was contracted and paved on Highway 101 at Earls Cove. ajor culvert installations were carried out at Wakefield Creek on Highway 101 and Klan Creek in e Roberts Creek area. 0.5 km of Malaspina Road in the Powell River area was reconstructed and 7 km of the Port Mellon Highway was widened near Gibsons. 700 m of guardrail was installed in e Gibsons and Madeira Park areas.

Bridges

Gray Creek Bridge, No. 7832, was replaced with concrete abutments and 18 m concrete box stringers.

Routine maintenance was carried out on other bridges in the area.

Buildings

Repairs and maintenance to all buildings were carried out by B.C.B.C. Plans are being formulated to provide a new location for the District Office.

NEW WESTMINSTER DISTRICT

Roads

Maintenance: The District began the year with an intensive maintenance program to repair flood damaged roadways and drainage facilities damaged during the previous winter's heavy rains. All foreman areas worked during the summer to complete major activities and with another mild winter crews put special attention on hand brushing throughout the District.

To overcome the high cost of railway maintenance repairs to one of the crossings on Scott Road, the District worked with B.C. Hydro Railway to strengthen both the base of the railway and highway approaches to the crossing. The District crews then installed rubber railway crossing pads which gave the crossing a smooth profile and ride.

Construction: The right turn lane for eastbound Lougheed traffic at Shaughnessy was completed this year. At the Pitt River Bridge, District crews undertook the widening of the Lougheed Highway 7 approaches to the old bridge in conjunction with the redecking and reconstruction of the swing span work being supervised by the Bridge Branch. Traffic diversion crossovers were also constructed on either end of the Pitt River Bridges to allow movement of traffic from one bridge to the other in case a break down of one of the swing spans occurred.

The Port Mann westbound weigh scales received a major upgrading with the lengthening of the deceleration and acceleration lanes and increased holding bay facility for inspection of units.

Intersection improvements on Highway 10 at 136th Street were completed with the construction of left turn slots and right turn widening.

Major repairs to concrete slabs on Gaglardi Way were carried out during the summer. In addition, all existing construction joints between slabs were cut out and resealed with an oil free, hot poured, rubberized asphalt joint sealing compound.

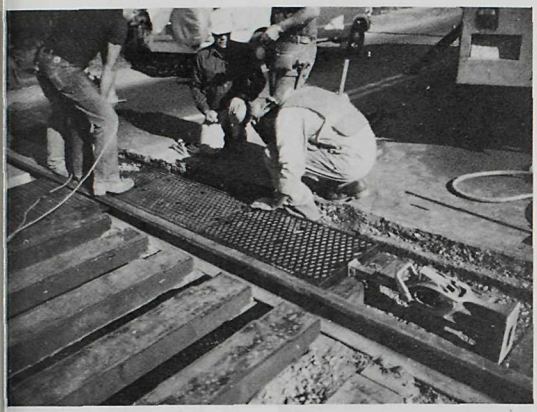
In conjunction with the construction of the three and one counter-flow through the George Massey Tunnel, the District supervised the cleaning and painting of the tunnel and the installation of traffic control devices.

Paving

Recapping of several sections of the Trans-Canada Highway 1 in Surrey, Langley, and Coquitlam municipalities was carried out during the year. Other paving included 1.75 km of the Westminster Highway, 0.825 km of Barnet Highway and 3 km of Ioco Road.

Bridges

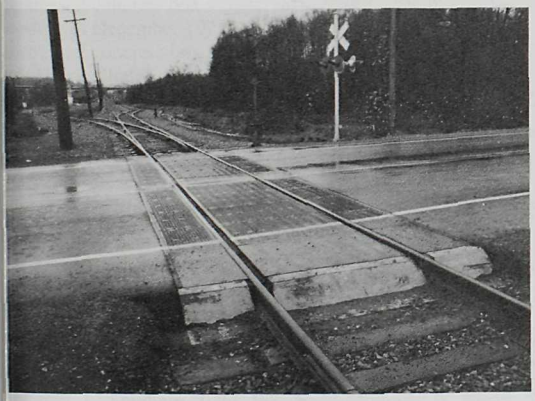
The regular maintenance program for all bridges was carried out with major pier protection done at Canoe Pass Bridge, Middle Arm Bridge and Oak Street Bridge. Farm Bridge No. 7035 was replaced with twin culverts and a major repair was made on the Sprott Street Overpass abutment. Slope stabilization was completed on Johnston and County Line Road Overpasses on the Trans-Canada Highway 1.



New Westminster District crew installed a new Rubber Railway Crossing on Scott Road in Surrey.

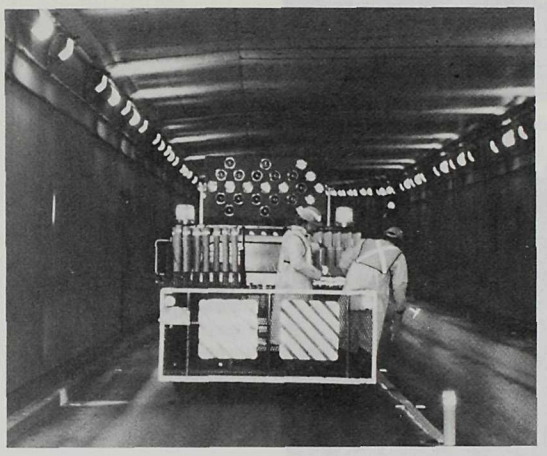
1. The rubber pads are aligned and then crews drill into ties in preparation for driving lag bolts.

2. The pads are then held in place while lag bolts are driven in.



3. The finished crossing is shown with approaches paved to give a smooth riding surface.

George Massey Tunnel 3 and 1 traffic pattern for morning rush hour.



1. Crews shown setting cones in the tunnel to separate two way traffic. The District mechanical crews designed and built the cone truck to feed the cones to the back of the truck along belts operated by man on back platform.

2. Northbound morning rush hour traffic feeding into the third lane.

Ferries

Both the Albion and Barnston Island ferry routes showed an increase in usage. At Albion, ıajor repairs were made to the landings and additional facilities were added to accommodate the ıe-up of the two ferries when not in service.

CHILLIWACK DISTRICT

Roads

Maintenance: The standard of road maintenance program for the year was generally good ıroughout the District. The trend away from using petroleum products as a dust pallative ontinued, with liquid calcium chloride being used as an alternative in most areas. Extremely eavy rainfall was experienced in late December resulting in considerable flood damage on ioxing Day and for several days following. District crews were kept busy repairing road washouts nd preventing a number of washouts by placement of heavy rock at locations threatened by rivers nd creeks. Repairs were required to some bridges, but most withstood the deluge. Replacement f 460 mm guardrail continued, with approximately 0.5 km of 690 mm guardrail being placed.

Winter patrols were established for the winter months. Snowfall was below average, and ıads were well maintained.

Construction: Work continued on Chilliwack Lake Road, with about 6.9 km of road widened 'hich included the extension of a 3.3 m multiplate pipe arch at Post Creek. Approximately 16 km f road are now ready for a final lift of crushed gravel and paving. Reconstruction continued on lemlock Valley Road, including widening and drainage improvements, and several culverts were :placed by larger culverts. Reconstruction and upgrading of Rockwell Drive was commenced and :veral other roads were widened and regravelled.

Paving

The recapping of approximately 4.4 km of two-lane road and the paving of 4 km was ndertaken under District contracts. In addition, District crews paved 6.9 km of gravel road.

Bridges

The District bridge crew completed the reconstruction of Pretty Bridge, an 18.29 m restressed concrete box stringer span bridge. The old bridge had been extensively damaged by ooding in December 1979, and replacement had commenced in March 1980. A new 15.24 m restressed concrete box stringer span bridge was constructed over Elbow Creek. Judd Bridge, ver Hatzic Slough, was reconstructed using treated timber piles and stringers.

HOPE DISTRICT

Roads

Maintenance: An extensive ditching program was carried out on the Southern Trans- rovincial Highway 3 in the Allison Pass area and several roads were improved by regravelling, ıouldering and ditching. Drains were installed in the Village of Yale.

Guardrail was installed at Similkameen Falls in conjunction with shoulder widening, at mory Creek, American Creek Hill and Lake of the Woods.

Damage caused by flooding condition required repairs to be made to the Trans Canada ighway 1, Southern Trans Provincial Highway 3, Silver Skagit Road, Othello Road and haumox Road.

Construction: A left turn slot was constructed at the Hope Sanitary Landfill site and shoulder widening was carried out between 45 km and 99 km east of Hope on the Southern Trans Provincial Highway 3.

Bridges

Reconstruction of the Skagit Bridge No. 4 on the Silver Lake Road was completed. In the Boston Bar area, McCarthy Bridge was rebuilt and the Richardson Bridge repaired, however, the Richardson Bridge has since been washed out due to flooding and temporarily replaced with culverts.

Paving

The Gordon Creek to Alexandra Bridge section of the Trans Canada Highway 1 was recapped with the exception of the 1.7 km section in Yale. Also 4.6 km of District Roads in the Boston Bar area were recapped.

Ferries

Replacement of the cables on the North Bend Ferry was completed together with other repairs to the ferry.

REGIONAL REPORTS

REGION 2

(R. W. Gittens, Regional Highways Engineer, Kamloops)
Kamloops, Salmon Arm, Vernon, Penticton, Merritt,
Lillooet, 100 Mile House and Kelowna Districts

KAMLOOPS DISTRICT

Roads

Maintenance: Routine maintenance was carried out on all roads within the District including roads in the Rural section of the City of Kamloops.

In general the summer of 1980 was fairly wet but a dry spring and fall extended the dust control program in the southern part of the District. An extra large machine patching program was carried out due to extremely poor pavement surfaces in many areas and 18,000 m^3 of gravel was spread over many kilometres to bring the roads up to standard.

The winter was mild with less than normal snowfall though several freeze-thaw cycles compelled the use of a great deal more salt than normal. These freeze-thaw conditions also caused several breakups on major and minor roads during late winter months which were dealt with only on a temporary basis until more stable weather conditions prevailed.

Construction: Re-alignment and gravelling was carried out on Clearwater Valley Road No. 214 for 3.0 km, Barriere Lake Road No. 697 for 5.0 km, and various other District roads for 4.0 km. Lac Le Jeune Road No. 2275 had 1.8 km of re-alignment built but not quite completed. Road widening was done on Campbell Creek Road No. 1069 for 2.5 km, Roche Lake Road No. 4088 for 1.0 km, and Tranquille-Criss Creek Road No. 4738 for 2.5 km. Tranquille-Criss Creek Road was also gravelled for 4.8 km. Other projects included 4.8 km of shoulder widening on Heffley-Louis Creek Road No. 2296, 28.3 km of sealcoating on various roads and 3.2 km of clearing and grubbing on Agate Bay Road No. 525. Also repaired or installed was 22 km of fencing, 1 cattle underpass, 6 cattleguards and 1793 metres of no-post guard rail.

Bridges

Routine maintenance was carried out on all Bridges in the Kamloops District and three wooden Bridges were replaced by concrete box beam structures at Deadman No. 3, Criss Creek No. 1 and Grouse Creek Bridge. Lost Creek Bridge was rebuilt.

Ferries

One new ramp was installed at the McLure Landing, and a new Ramp and main cable was installed at Little Fort.

SALMON ARM DISTRICT

Roads

Maintenance: No special problems were encountered with routine maintenance. Dust control was carried out using old crankcase oil which proved less expensive than other methods.

Contracts were called for fencing of Schedule 2 Highways on Highway 97 and the Trans-Canada Highway 1. A total of 10.7 km of fencing was completed this year.

All 460 mm guardrail along the Trans-Canada Highway 1 from Sicamous to Perry River was replaced by 690 mm guardrail.

Snowfall was below average in most Foreman Areas. The exception being Sicamous, which experiences above average snowfall during November and December. Early break-up and lack of frost in the ground has caused considerable damage to roads throughout the District.

Construction: A considerable amount of regravelling and ditching totalling 24.74 km was done under the minor betterment program.

Day Labour funds were also spent on gravelling and ditching programs which will continue during 1981.

Subdivisions within the district created an additional 9.91 km of road, of which 5.22 km were paved.

Bridges

General maintenance was carried out on all bridges. The following bridges were either completed from the previous year or replaced; Holding Bridge No. 6063, Cambie Bridge No. 96, and McConnell Bridge No. 6069.

VERNON DISTRICT

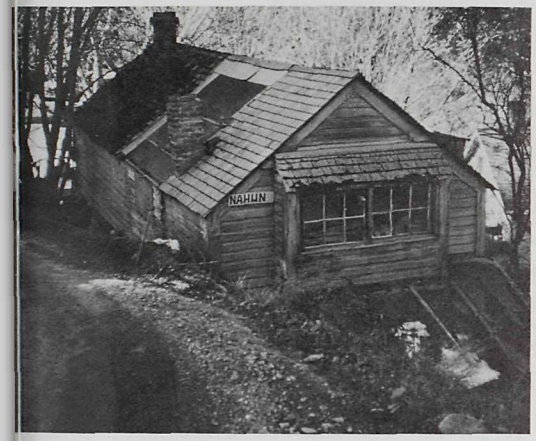
Roads

Maintenance: Revised standards for guardrail height resulted in 650 m of 460 mm no-post concrete guardrail being replaced with 690 mm guardrail on Highway 97. Unusually mild temperatures in the latter half of the winter resulted in constant surveillance of drainage works.

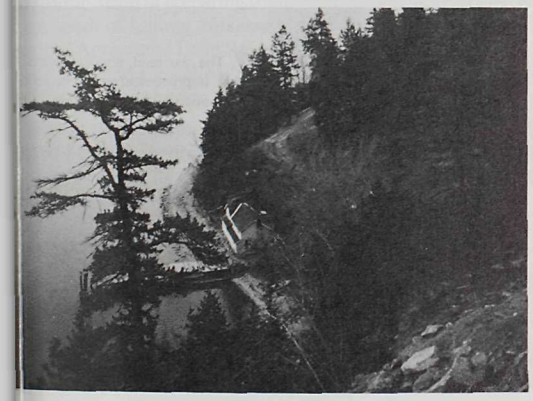
An entirely new Maintenance Depot was built at Enderby. The new yard is more suitably located in an industrial zone and is providing a more efficient operation. The first of three salt storage sheds to be built in the District was completed in Lumby. A dry storage building was also built in the Vernon Yard.

Subdivisions continue to be active with 206 subdivisions being processed creating 175 new lots and 5.53 km of new roads. The Regulatory Office also processed 116 zoning applications and issued 867 Permits for Works on Crown Lands. Most of the latter were the result of the conversion of home heating oil fuel to natural gas fuel.

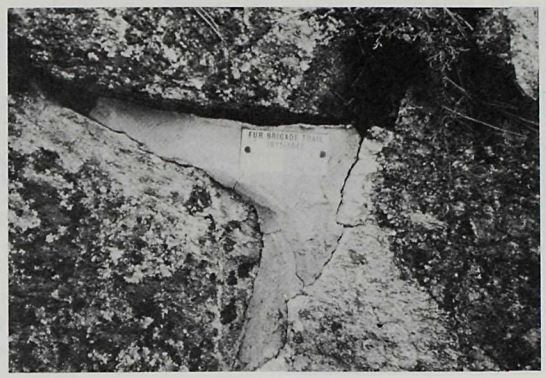
A single lane section of old road, commonly referred to as the "bottleneck," was eliminated in 1980. The "bottleneck" was a deterrent to general traffic on the west side of Okanagan Lake north of Kelowna.



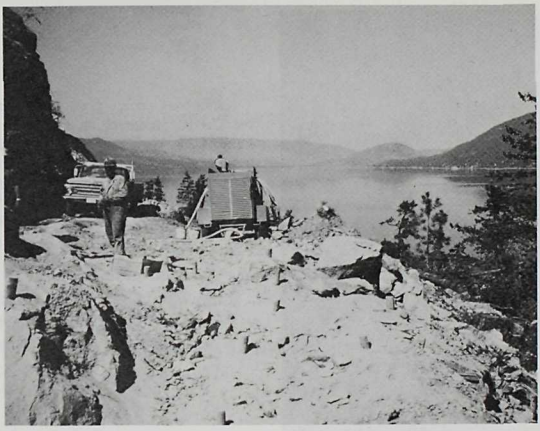
Nahun was once a port-of-call for the C.P.R. steamers on Okanagan Lake. A Mr. Wm. Deighton has lived beside the wharf since 1930. Note the close proximity of outbuildings to the old road.



Picture was taken from the new location of Westside Road which is located well above the old road. The old C.P.R. wharf and Mr. Deighton's residence appear in this photo.



Historical plaque notes the location of the Fur Brigade Trail of 1811–1847. The trail is located between the old and new roads. Care was taken to preserve this piece of history.



Some rockwork was encounterd in relocating Westside Road to a higher elevation. The new road avoids hills and bad curves on each side of the old C.P.R. wharf at Nahun.

The new road, now completed, is a vast improvement and will no doubt be a boon to the Fintry area.

Although precipitation in the area was normal, mild temperatures prevailed most of the ter resulting in a below average snowfall. Snow removal was therefore considerably below mal.

Construction: Reconstruction of the most easterly 25.00 km of Monashee Section of Vernon- an Highway 6 was sufficiently completed to allow the Paving Branch to lay one lift of hotmix ement over the entire section. It is expected that paving will be completed in 1981.

Construction of a new diversion of the Westside Road at Nahun was completed to gravel le. The 3 km of single lane road, commonly referred to as the "Bottleneck", is now hinated. As expected, traffic on the west of Okanagan Lake north of Kelowna has since eased.

Wheelchair ramps were installed on the arterial of Highway 97 within the City of Vernon.

The four laning contract on Highway 97, Vernon to the north end of Swan Lake, was pleted and has reduced traffic congestion immensely.

Some 4.5 km of Schedule 2 fencing was done on Highway 97 as fencing requests continue to ie in.

Reconstruction of Grandview Bench Road, in the Enderby District, was started with a grade g built across a large gulley.

A short but significant local commuter traffic link was built in February, 1981. This nection between 39th Avenue and Black Rock Road at the east boundary of Vernon will ntually allow a better distribution of cross town traffic. Drainage improvements were made at ous problem areas, including Highway 97A at Armstrong and on Okanagan Landing Road Okanagan Lake.

Paving

The usual locally-called paving contracts produced 8.85 km of recapping to old pavements as as 6.11 km of new surfacing.

One lift of surfacing on the 25 km of the newly reconstructed section of Highway 6 from nashee Pass to the East District Boundary was done by a paving branch contractor.

Bridges

The District encountered some difficulty in obtaining approval from the British Columbia d Commission in preparing for the complete replacement of Genier Bridge on Whitevale Road km south of Lumby. Necessary realignment of the bridge and approaches involved a small unt of Agriculture Land Reserve. This problem has since been resolved. A temporary Bailey ge by-pass was installed, at a time specified by Federal Fisheries, in preparation for dismang of the present bridge.

Deck repair and maintenance work was carried out on 20 bridges. Kingfisher Bridge on nerby-Mabel Lake Road was completely redecked.

PENTICTON DISTRICT

Roads

Maintenance: Road surface maintenance was a major concern during the past year with the emphasis on both hand patching and machine patching, particularly in the Keremeos-Princeton area. Regravelling of side roads and shoulders in most areas, as well as extensive ditch cleaning and culvert maintenance were carried out as part of the preventive maintenenance program. Fairly extensive brushing work was achieved in both the Penticton and Princeton areas.

Once again, a rather mild winter season resulted in only moderate use of winter maintenance activities.

Construction: Major Day Labour progressed in several areas, most notably on Highway 97 at Kruger Hill where three-laning is continuing, and the Princeton-Summerland road where continual upgrading is in progress. McLean Creek Road, near Penticton is being upgraded and another section was paved this year. Various smaller capital road improvements were carried out in all foreman areas including Old Hedley Road, Ashnola Road, and Allendale Lake Road.

Also extensive guardrail placement took place on Highway 3, as well as fencing on Schedule 2 Highways throughout the District.

Bridges

The Keremeos Bridge which had previously been destroyed by fire was replaced by an Acrow Panel Bridge at the same location on the Similkameen River.

In addition, the re-decking of the Ashnola Railway Bridge near Keremeos was completed, and the replacement of the covered sides was started in the fall of 1980. Bridge Day Labour projects included the completion of the Five Mile Creek Bridge on the Old Hedley Road, and the placement of a large multi-plate culvert in Naramata after the removal of an existing bridge on Bartlett Avenue.

Other maintenance included bridge deck repair, bridge cleaning and general maintenance on various district bridges.

MERRITT DISTRICT

Roads

Maintenance: The District's maintenance program was overshadowed by the emergency work performed by maintenance crews on several occasions this fiscal year. In June, heavy rains caused flash flooding and mud slides on the Trans-Canada Highway 1 in the area of Gold Pan Provincial Park, necessitating the closure of the highway for several hours. Both railroad lines were also affected. It took several days to complete the necessary cleanup and restore normal conditions. In October a lowbed truck transporting a cat tractor with the blade hit the end post of the Rattlesnake Bridge, a timber Howe Truss, causing it to collapse. Highway 8 was closed for approximately one week while the Merritt and Kamloops Bridge Crews worked through the Thanksgiving weekend to install a 140-foot triple single cord reinforced Bailey bridge. On Boxing Day, heavy rains caused flooding which resulted in extensive damage to many roads in the Merritt District. Highway 8. Coldwater Road and Patchett Road were all closed for periods of time due to washouts. It took several weeks to complete the damage repairs. No structures were lost due to the flooding which is noteworthy because Water Rights estimated that the flood was of a 200-year intensity.

The Merritt area had a wet spring and summer resulting in gravel roads requiring more than normal attention. Hand patching was heavily emphasized mainly in preparation for the sealcoating of a section of Highway 5 south. Other activities such as regravelling roads, road base repair and culvert maintenance were also emphasized this year.

Several large sections of bleeding and ravelling pavement on Highland Valley Road and mit Lake Road were ripped and relaid using a hired grader with a planer attachment.

The rest area maintenance in the Merritt Area was contracted out proving to be quite cessful.

Construction: The two largest Day Labour Projects were the reconstruction of a section of adow Creek Road and the installation of guardrail along the Trans-Canada Highway 1. The ulder reconstruction on Highway 5 north continued. The reconstruction and realignment of a tion of Highway 5 known as the S-X curves were started, and will be completed in the coming al year. The upgrading also continued on Botanie Creek, Coalmont and Fox Farm Roads.

Bridges

The Nicola Avenue Bridge in Merritt, was reconstructed using treated timber piling and cast concrete box stringers. The traffic was accommodated during the reconstruction by the tallation of a Bailey bridge, traffic control was accomplished by temporary signals which ved quite effective. The Thynne Bridge was relocated and reconstructed using timber cribbing l log stringers. The Lindley Creek Bridge was removed from service and demolished, it was a g Truss originally built in 1927.

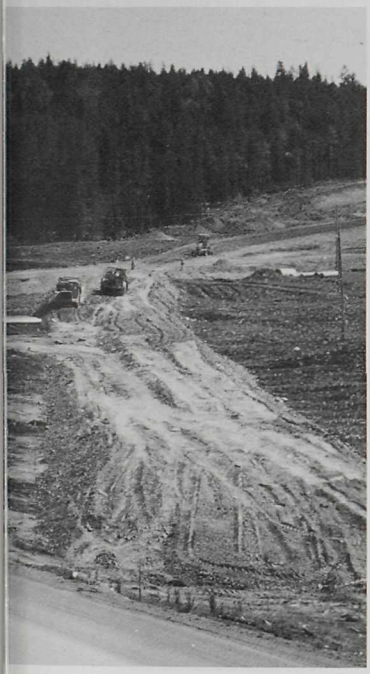
Maintenance and repairs were carried out on a number of other structures.

Ferries

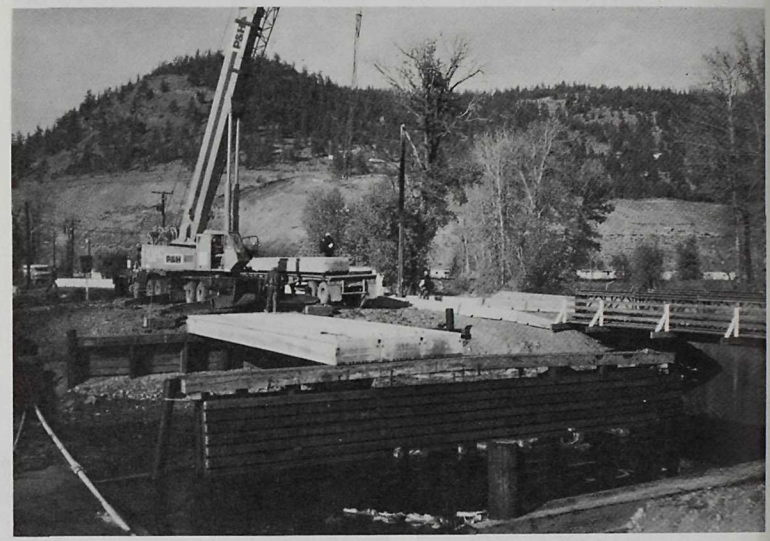
It was a normal operating year for the Lytton Ferry and there were no disruptions to the ferry vice during the spring high water. However, with the warm weather in late December, the river e very rapidly and was congested with ice flows. As a result, the ferry was taken out of service December 19 and remained out of service until December 26 when the ice flows subsided.

Crusher was set up in Merritt District's Godey Pit where 30,000 cm of gravel was crushed to create three equal stockpiles of 13 mm, 16 mm and 19 mm crushed granular matter, under Project M-4529-0029. Contractor was L. R. Wyles Trucking Ltd. of Penticton.

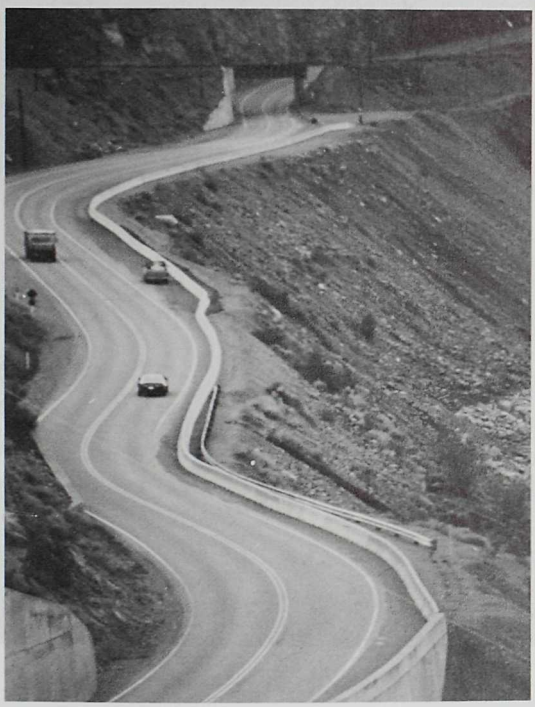
Work being undertaken on Meadow Creek Road, Logan Lake Foreman Area, Project C0476. Work was initially ıdertaken with four self-elevating scrapers and one conventional type. When other conventional type scrapers became ıilable these were utilized and the road, including the paving, was completed before winter.



Nicola Avenue Bridge No. 6533 reconstruction by the Merritt Bridge crew on Highway 8 within the City of Merritt. The bridge was constructed with 24.4 m concrete box beams. Each beam weighed 27 tonnes and were put in place with a 60-ton crane.



A portion of the 7596 m of 690 mm installed on the Trans Canada Hwy., Lytton Foreman Area. This work at Tank eek was undertaken under Project N0378.



Repairs being undertaken to the north abutment of Patchett Bridge No. 2208 after the flood damage during the Christmas holidays of 1980.

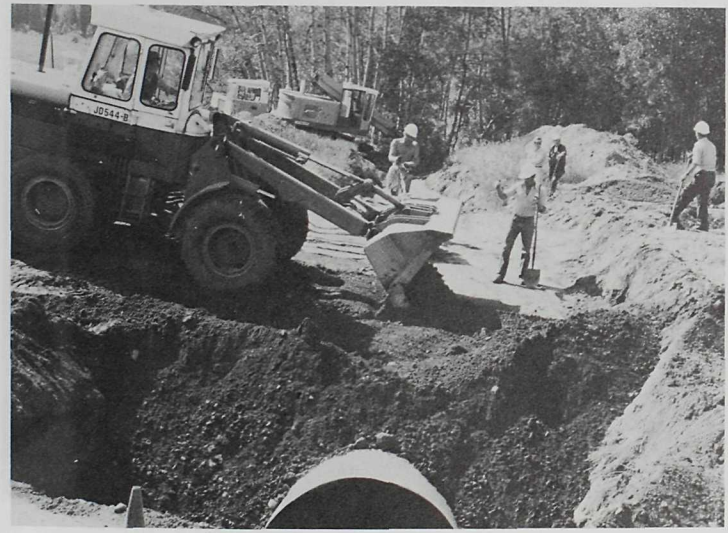
Lindley Bridge No. 661 just before being demolished due to structural damage and old age. Bridge was originally constructed in 1927 and served the residents of the Nicola Valley admirably until February 1981.

Merritt Bridge Crew installing rip rap behind the newly constructed wingwall on No. 2 Kingsvale Bridge. The new wingwall was required due to flood damage incurred on December 26, 1980.

Working in conjunction with the Ministry of Environment, Water Investigation Branch, approximately 3200 m^3 of rip rap material was blasted from Merritt-Spences Bridge Road, approximately 14 km west of Merritt.

Mr. Fred Earl, relief Head Ferryman on the Lytton Reaction Ferry, helping with a demonstration on the use of life jackets to two of the 25 school children who cross the Fraser River each day on their way to school.

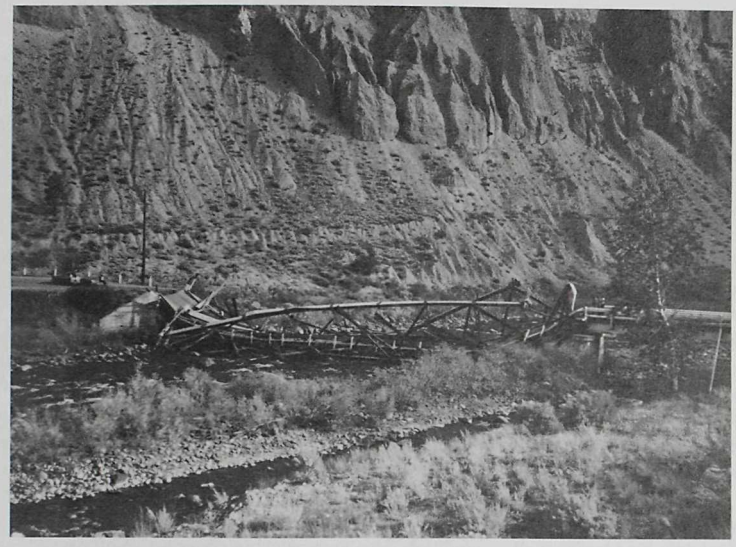
Merritt District Bridge Crew installing a 7 ft. × 70 ft. steel cattle underpass on Highway 5 south of Merritt.

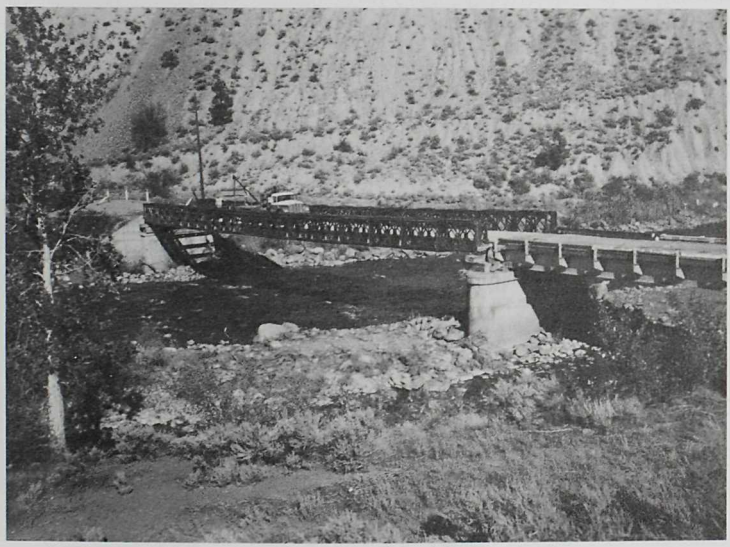


Reconstruction of S-X curves on Highway 5, 13 km south of Merritt. Day Labour Project C3796 was undertaken with three self-loading scrapers, one conventional scraper, one grader, one packer and a TD25 ripper/push cat.

After roadbed was finished M & N F road stabilizer was applied for dust control. Paving to be completed in 1981/82.

On October 2, 1980, a lowbed truck with a large bulldozer on it was proceeding across the 140 ft. long Rattlesnake Howe Truss Bridge when, due to mysterious circumstances, the bridge collapsed. Within one week, with help from the Kamloops bridge crew, the Merritt bridge crew erected 140 feet. of triple single cord reinforced Bailey bridge.





LILLOOET DISTRICT

Roads

Maintenance: Spring break-up was again severe for the main highways in the Lillooet District, notably the Trans-Canada Highway 1, Cariboo Highway 97, Lillooet-Cache Creek Highway 12, and Highland Valley Road. Extensive road base repairs, re-strengthening, and machine patching was necessary to maintain the road surfaces. As a preventative measure, ditching programs in the Lillooet and Ashcroft areas commenced in the spring and continued through the summer and fall. A mild winter of 1980/81 caused an early spring break on the District's main highways in February and March.

The Drum Mix Crew paved 4 kilometres on the Lillooet–Cache Creek Highway 12, thereby completing the two year paving program. The paving was a welcome project as the highway had broken up severely in the spring.

Sealcoating was done on Texas Creek Road, Seton Lake Road, Lillooet-Goldbridge Road, Lillooet–Lytton Highway 12 and the Lillooet–Cache Creek Highway 12. With the sealcoating completed, Lillooet area paved roads are now in good paved condition.

Heavy rains in June caused many mud slides, rock slides, and road washouts. Several Lillooet, Ashcroft, and Goldbridge area roads were closed for several days. The most amazing mudslide occured on the Lillooet–Lytton Highway 12 when approximately 250,000 yards of material flowed across the road, leaving the road closed for two days.

Boxing Day rains brought more mudslides and washouts to Lillooet and Goldbridge area roads. Repairs are still continuing.

A wet summer kept dust control requirements down, but necessitated timely grading to keep a good standard of gravel road surface. Gravelling programs were carried out on industrial roads to help maintain road surfaces. Wet conditions also kept patching crews active on paved highway.

The Avalanche program on the Lillooet–Pemberton Road and the Lillooet–Goldbridge Road continued throughout the winter. With a very warm winter coupled with a light winter snowfall, there were no avalanches reaching any District roads. Data obtained from the avalanche program will serve very useful in future years when winter snowfall is normal.

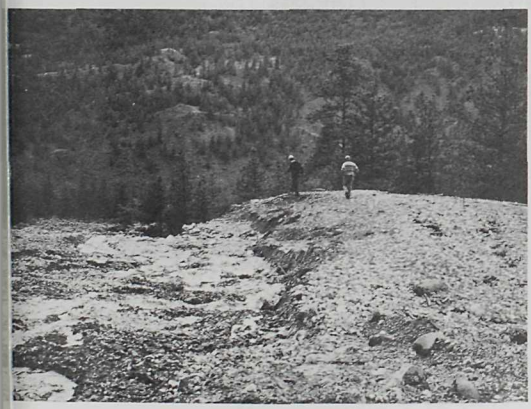
With the mild, low snowfall winter, winter maintenance crews were very busy with "Summer" type maintenance. Grading was necessary in the Lillooet District all winter except for two weeks in December.

Construction: In the Lillooet Area 5 km of subdivision road was paved in the North Lillooet Subidivision Area. A major portion of the Gun Lake Road system was completed. Work began to widen the Lillooet–Pemberton Road. 15 km was cleared and grubbed in preparation for grade construction next year. Widening and gravelling on the Lillooet–Goldbridge road continued. Contract work was completed on the Sallus Creek Section of the Lillooet–Cache Creek Highway and now all major construction is complete except for completion of Pavilion Overhead.

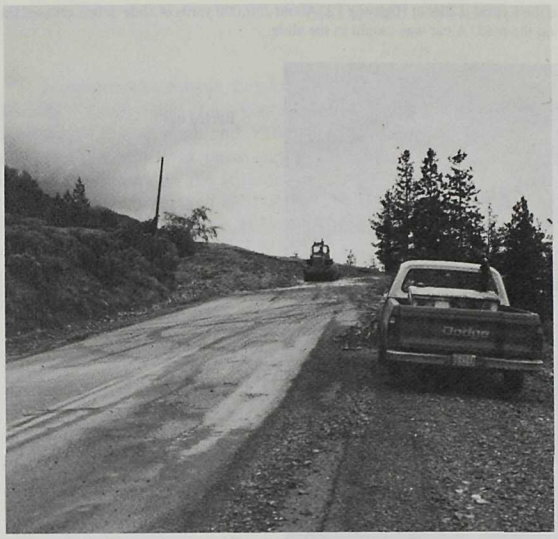
In mid-June a debris slide closed the Lytton–Lillooet Highway 12. About 250,000 yards of slide debris crossed the highway and left about 25,000 yards on the road. A car was caught in the slide.

Buried car.

Looking toward Lillooet.



Foreman Angus Murray and Dick Jones on top of the slide. The debris slide flowed all the way to the Fraser River.

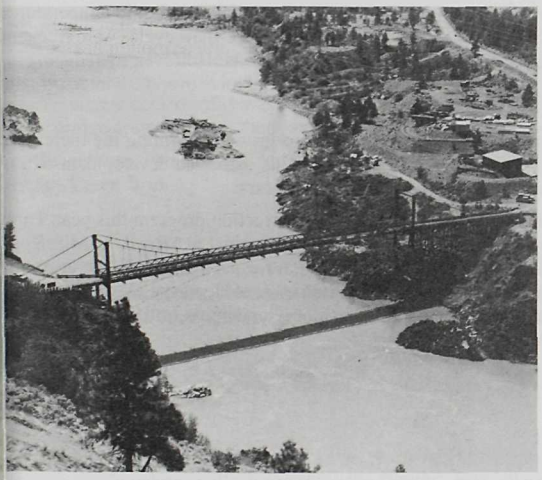


Slide removal begins.

The same heavy rains washed out the Duffey Lake Road for three days. (Lillooet–Pemberton)

This used to be the Duffey Lake Road.

Lillooet District Bridge Crew driving piles for new Yalakom Bridge (Lillooet–Goldbridge Road). Old King Truss is on the left.



One final look at the Lillooet Suspension Bridge. The new Lillooet Bridge is due to be opened in mid-1981.

Lillooet Bridge approach work continued with work underway on the Station Hill Road Contract. With Bridge work soon to be complete, the new Lillooet Bridge and approaches should be open in late spring.

Bridges

District Bridge Crew began construction of the Yalakom Bridge on the Lillooet–Goldbridge Road. Work will be completed next year. The bridge is a concrete box beam structure and the bridge crew did very well on their first job to construct a bridge of this type.

Decking and railing of log stringer bridges on the Duffey Lake Road was completed.

Lillooet Suspension Bridge continued to suffer extreme damage necessitating a large portion of the Bridge Crew's time over the year. With the new Lillooet Bridge, more attention will be able to be given to other bridges.

100 MILE HOUSE DISTRICT

Roads

Maintenance: At the commencement of the year, it was assumed that another record dry spell would be experienced. However, by the beginning of June the assumption was proven to be incorrect and by the end of the summer, a record year for rainfall had been recorded.

The summer maintenance program for the District was generally in conformance with the performance budget and scheduled activities, emphasis being given to road surface activities such as grading, ditching, patching and dust control. Due to wet weather conditions throughout the summer, the District encountered considerably more water problems than in past years.

The winter was again very light, bringing below average snowfalls, and mild temperatures. When the temperatures hovered close to the freezing point, the freeze-thaw cycles were frequent, requiring normal winter sanding and chemical application operations. However, by reducing our winter shift coverage from three shifts to two, we were able to economize over the winter, utilizing only 70 per cent of our projected winter budget.

Activity resulting from regulatory function continues to grow, confirming the increase in population moving into this area from the lower mainland. This increased development will no doubt result in increased maintenance budgets in the coming years.

Construction: There was another active Day Labour construction program this year. Highlights of the program included the upgrading of 95 kilometres of Canim Lake Road, 83 Mile Road, Watch Lake Road and Lac la Hache area roads, in preparation for paving by both the drum mix paving program and paving contracts; construction of 3 kilometres of Hendrix Lake Road at Eagle Creek; miscellaneous reconstruction; fencing and a machinery underpass on Highway 97 and a no-post guardrail installation program.

Highway Construction on Canim Lake–Hendrix Lake Road No. 318, 47 km northeast of 100 Mile House.

Bridges

Maintenance: All bridges in the district received annual maintenance of washing, handrail painting and minor repairs. Skaday Bridge was refitted with ties, deck and handrails.

In the construction of Eagle Creek Bridge, a concrete box stringer founded on steel pipe piles with a concrete deck overlay was completed by district forces. This type of construction was new to our bridge crew enabling them to gain valuable experience.

In addition, two standard timber structures were completed replacing McKinley Bridge and Bradley Creek Bridge.

Ferries

The Big Bar reaction ferry continued routine operation throughout the summer months. During the winter period, the aerial ferry provided access across the Fraser River. No shut-down time was recorded for either ferry.

KELOWNA DISTRICT

Roads

Maintenance: An intense patching program was again required on Highway 97 and most of the high traffic volume collector roads in the District, particularly within the rural area of the City of Kelowna. In an effort to keep up with road surface deterioration, approximately 20 km was treated with a ⅝-inch graded chip seal using a pounders emulsion H.F. 150 oil. The cost of this type of seal runs approximately at 1/5 of the cost of 5 cm thick class B medium mix asphalt concrete pavement.

All other maintenance and roadside work was carried out placing emphasis on ditching, shoulder repair and resolving some of the more pressing drainage problems.

Because of increased development and influx of population, regulatory activities remain high. Utility and access permits have almost doubled over last year.

The newly established electrical crew is presently maintaining 23 traffic signals in the District. It may be interesting to note that if traffic volumes increase at the present rate, there could be 38 traffic signals operating throughout the District by 1985.

The less than average precipitation and moderate temperatures kept snow removal to a minimum. With the exception of the Big White Ski Hill Road and the Brenda Mine Road, winter maintenance was carried out entirely by District crews.

Construction: An active Day Labour program was undertaken by District crews resulting in hiring additional private equipment at intervals throughout the summer months. Springfield Road was reconstructed and paved from Wilkinson Road to Cooper Road, a distance of 2.24 km. This project included left-turn slots and installation of underground conduits for future signal lighting at three intersections. 3.11 km of the Okanagan Highway 97 were recapped with an average of 5 cm thickness class B asphalt concrete mix between Winfield and Oyama and south of Summerland.

In addition, 4.62 km of District roads were paved and 8.23 km reshaped and gravelled.

A contract to install two culverts under Highway 97, in an effort to resolve perennial drainage damage problems, was completed in February of this year using one 55.88 cm diameter × 67 m steel pipe near Reid's Corner and one 55.88 cm × 48.77 m steel pipe in the vicinity of Stremel Road in Kelowna. Because of heavy traffic volumes, installation of these culverts by open cut was not possible and thus installation by horizontal coring method was chosen at a cost of $57,000.

Buildings

The building in the Kelowna maintenance yard, which was previously occupied by the Ministry of the Environment and Agriculture, was vacated by these branches and is now being readied for use by the local bridge crew and the newly established electrical crew.

Bridges

District forces constructed a triple span prestressed concrete stringer bridge over the canal connecting Wood Lake and Kalamalka Lake on the Oyama Road. The canal is used by pleasure boats to commute between the two lakes.

REGIONAL REPORTS

REGION 3

(W. M. Sproul, Regional Highways Engineer, Nelson)
Nelson, Rossland, Grand Forks, New Denver, Cranbrook,
Fernie, Golden, Revelstoke and Creston Districts

NELSON DISTRICT

Roads

Maintenance: The District took advantage of the Minor Betterment program and capital funds to continue with a program to upgrade many side roads. Spring runoff was extreme causing flooding and extra costs for repairs were incurred. Further flooding occurred in December when winter temperatures remained moderate. Heavy snowfalls were experienced in December. Crews operated on 3 shifts.

Construction: The District continues a program to improve Highway 3A, east of Nelson, with 2.0 km completed this year. An approach interchange was constructed and paved to the new Taghum Bridge. The Black Bluffs section of Highway 6 was opened to traffic. A total of 2.0 km of paving was undertaken by District forces.

Bridges

Regular maintenance was carried out throughout the District. The Balfour Ferry Wharf anding trestle was completed and work began on the replacement of the Balfour Ferry berth.

Ferries

Kootenay Lake Ferries regular maintenance was carried out. Sailings remained as scheduled lespite the work being done by crews constructing the berth and wharf.

The new Glade Ferry was put into operation, and is operating without problems.

Work is underway to dredge the Harrop Ferry landings.

ROSSLAND DISTRICT

Roads

Maintenance: The year could be described as active for roads. It started with flood control work caused by spring freshets and the release of large beaver dams. As the months progressed the crews were often busy satisfying the requests of Regional and Headquarters personnel which, at times, resulted in scheduling difficulties for the foreman. Also our patching crew was kept extremely busy maintaining worn out pavement.

The winter was unusual, to say the least, the troublesome periods being in the latter part of November and early December, then again in late March.

The technical crews responsibilities kept them working at a steady pace throughout the year with considerble time spent on Municipal programs and studies.

Minor betterment funds were well spent in upgrading sections of the Old Cascade Highway and subdivision roads with an appreciable amount applied to troublesome drainage problems.

We would like to mention that we are finding the Maintenance Management System very useful in bringing to mind activities requiring attention for one reason or another. Furthermore we are looking forward to the improvements being made to the data system for quicker delivery and return of reports.

Construction: The Waneta-Nelway Road was finally completed after skirting a potential slide area and completed this year were the Broadwater and the left turn slots in Ootischenia.

A small but interesting project arose out of the discovery during low water that spring freshets had scoured out the bed of two large concrete box culverts and in one had caused extensive undermining of the foundations. Remedial work consisted of placing 3 m^3 or larger rocks at intervals across the bottom and back filling with blasted rock.

Some funds were allocated to pavement rejuvenation. The results were favourable, although procedures will be altered somewhat in the future.

Over 9000 m of guardrail was produced at the plant in Castlegar as well as other concrete items such as lamp standard bases. Over 2100 m of guardrail was installed in various areas.

Bridges

Beaver Creek No. 4 was completely rebuilt excluding the two middle bents and Shukin Bridge was redecked. The bridge crew spent a considerable amount of time repairing culverts and creek channels.

Ferries

Early in the year repairs were made to the ramps on both sides of the Castlegar Ferry also the ferry aprons were rebuilt. In January work commenced on the replacing of the east ferry ramp. The method is to first drive H piles as anchors for the ferry cables, then rip up sections of the deck and fill with rock.

Problems encountered were heavy traffic and day to day fluctuations of the water level controlled by B.C. Hydro's Hugh Keenlyside Dam upon demand of downstream users in the United States. Low water cannot be predicted.

GRAND FORKS DISTRICT

Roads

Maintenance: Various roads in the District were upgraded by District forces and surfaced by Headquarters Crews. Patching continued throughout the District, with several sections of Highway 33 being completely renewed. Brushing was carried out on some minior roads. Road damage as a result of rain storms during the year required considerable extraordinary maintenance, though winter conditions were relatively mild and no serious maintenance problems were encountered.

Construction: On Highway 33, work continued between Rock Creek and Westbridge. On the North Fork, 13 km was reconstructed in preparation for paving, while approximately 3 km of Gilpin Road was upgraded. A number of other roads in the District were ditched and gravelled. Installation of 690 mm guardrail continued on Highway 3 in various locations. A number of contracts were called during the year to construct and renew fences.

Bridges

Maintenance was carried out as required on all bridges. As a result of the flooding of Sutherland Creek in the spring, two culverts were replaced by Clarkston Bridge, a log stringer structure. The galvanizing of the railing on Rock Creek Canyon Bridge was completed. On Granby Bridge, the Howe Truss was replaced with a Bailey span, and the wood piles on Hummingbird Bridge were renewed with H piles. During the winter, Fiva Creek Bridge, consisting of three King truss spans, was replaced with a Bailey bridge. On the Christina Creek Bridge a pedestrian railing was installed as a safety measure.

NEW DENVER DISTRICT

Roads

Maintenance: The New Denver District experienced a mild winter with only a few weeks of eavy snowfall. A fast spring thaw enabled most summer activities to get underway early.

Extensive ditching, shouldering, patching, along with other activities were carried out on ıain highways and various roads throughout the District.

With the damp summer weather and use of liquid calcium, no dust problems were ıcountered.

Construction: Work continued on the Monashee section of the Vernon-Slocan Highway 6 est of Edgewood and is approximately 20 per cent complete. Re-alignment of sections of the akusp Hot Springs Road, Red Mountain Road (south of New Denver) and Cooper reek–Argenta roads continued.

The District had a successful guardrail program, which 3,000 m of 690 mm installed in aslo, New Denver, Edgewood and Nakusp.

Paving

Surfacing 1980/81 saw 1 km of the Fauquier streets repaved along with the shoulder at Hills ıd New Denver arterial, making conditions safer for pedestrians.

Bridges

Routine inspections, repairs and maintenance were carried out on bridges, as required ıroughout the District.

Pre-emption Bridge, west of Edgewood, is being constructed with completion estimated in)81.

Ferries

General maintenance with some minor refitting to the Voith-Schneider Propeller units kept e M.V. *Needles* at Fauquier on schedule throughout the year. Arrow Park Ferry was steady ıcountering few problems. Near the end of the 1980/81 fiscal year the Ferry Information System as introduced with few problems anticipated in the future.

CRANBROOK DISTRICT

Roads

Maintenance: Activities under the Maintenance Mangement System were all completed as quired with some man-hours being transferred to other activities of a higher priority. District ads were well maintained during the year.

During the winter season, a three shift system seven days per week was incorporated in the anbrook Foreman Area whereas in the Kimberley and Yahk Foreman Areas, two shifts, seven ys per week were utilized. This provided adequate coverage for all areas.

Spring runoff problems following the 1979–80 winter months were minimal, and apart from ıeavy snowfall in early December 1980, followed by heavy rains, the past winter was unusually ild with little precipitation. The heavy rain in December along with an ice jam in the Moyie River Swansea Bridge No. 764 on Southern Trans-Provincial Highway 3 caused a buildup of ice ainst the steel girders of the bridge and the river to overflow its banks. Two bulldozers were quired to free the ice and permit the water to flow in the river channels.

Road base repair, ditching, brushing, culvert maintenance, grading and sign maintenance ere the main activities undertaken.

Dust abatement in the form of M & F Stabilizer and calcium chloride was applied to 190 pass kilometres of gravel and dirt roads in the District.

Construction: New construction and reconstruction amounted to 11.2 km.

Gravelling of streets and roads in the District totalled 21.4 m with 2.3 km of plant and road mix paving. An extensive program of 25.2 km of double flushcoat treatment was undertaken by District crews. Shoulder widening was completed on Kimberley Highway 95A for 27.2 km by the District crews and later treated by the Headquarters sealcoating crew.

1,200 m of 460 mm guardrail was replaced by 690 mm guardrail on main highways throughout the District based on the index warrants.

Five fencing contracts were called involving 3.1 km of new fence and 14.5 km of repairs to existing fences under Schedule 2 Highway Fencing Program.

Bridges

Mathew Creek Bridge No. 288, on St. Mary's Lake Road was opened to traffic following completion of the deck, railings and rip-rap placement. This 110-foot prestressed concrete box stringer structure replaced the 135-foot King truss and pile trestle bridge constructed in 1942.

Sheep Creek Bridge No. 6365, a 100-foot prestressed concrete box stringer bridge on Wasa Sheep Creek Road was opened to traffic replacing a 114-foot log stringer bridge constructed in 1956.

Both the King truss and the log stringer structures were removed during the fiscal year. H piles were driven for a 60-foot box beam structure to replace Lewis Creek Bridge No. 6354 at Wasa.

Bull River Falls Bridge No. 6345 consisting of a 60-foot King truss and 40-foot fram trestle underwent major repairs during December and January to permit legal loading. Repairs consisted of horizontal log strings placed beneath the King truss with vertical columns placed beneath the three needle beams.

Although the crew spent a considerable amount of time working on the Kikomun Bailey bridge in the Fernie Highways District, all planned maintenance work was completed.

Buildings

A portion of the Kimberley Yardsite was fenced under a contract called by British Columbia Buildings Corporation. New plow and sander hangers were constructed of H piling in the Kimberley Yard by District crews under a Minor Betterment Program.

FERNIE DISTRICT

Roads

Maintenance: The freeze-thaw cycles of the winter of 1979–80 caused problems with Highway 93 and spring repair was again required. Wildlife ran amok in the Jaffray area damaging fences and repairs were necessary in the spring. Liquid calcium was again used for dust control and very good results were achieved. Other maintenance activities were carried out as they were required. A mild winter in 1980–81 resulted in less than normal snowplowing and increased maintenance of flooding culverts.

Construction: The construction by contract of the Carbon Creek Bridge necessitated the contruction of bridge approaches and a hot mix pavement was applied late in 1980. A 5 cm to 10 cm lift of crushed gravel was applied to 19.14 km of the Corbin Road and liquid calcium applied late in 1980. Reconstruction of 3.90 km of the Corbin Road was started in late 1980 and some sections were widened for the coming winter. The 460 mm guardrail was again replaced with 690

mm guardrail where required. Fencing on the Southern Trans-Provincial Highway 3 near Wardner and Jaffray was replaced by contract in early 1980. Reconstruction of the Robbins Road was accomplished by ditching and gravelling. Inverted prime was done on 1.63 km of District roads. A sand seal was placed on 6.14 km of District roads in an attempt to save deteriorating pavements. 5.12 km of District roads received a lift of coldmix pavement. Widening of the shoulder on the Elk Valley Highway was started with right of way being purchased, fences installed for 9.00 km and shoulders widened with ditches being moved back for 3.8 km. Reconstruction of the Rock Creek Road was near completion in 1980 and further work is proposed for next year. 7.00 km of fencing on the Elk Valley Highway was done by contract to conform to Schedule 11. A lift of gravel and liquid calcium was placed on the lower end of Kikomun–Newgate Road. Pull-out lanes for slow moving traffic were constructed between Elko and Fernie with hopes to pave in 1981–82.

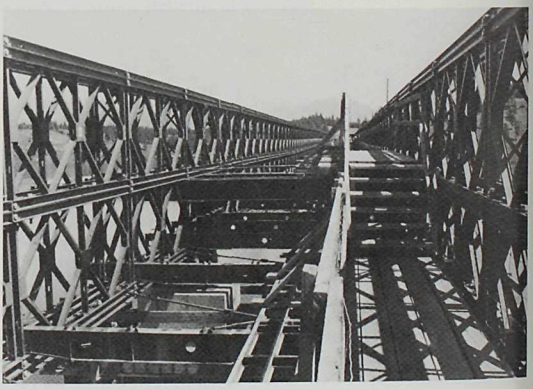
Bridges

Haynes Bridge was comleted in late 1980, after a hectic year for bridge, road and office staff with the replacement of Kikomun Bridge. Crews were brought in from Cranbrook, Golden and Creston to assist in the installation of the Acrow across Lake Koocanusa, and the removal of the older Bailey bridge. Brewery Bridge in Fernie was turned over to the City and the removal of the 34 m Bailey bridge was accomplished by District crews. Frequent repairs to the Wilson Creek and Michel Prairie Bridge were necessary, due to vehicle accidents damaging them. Vehicle accidents were also responsible for the necessity to replace several panels on the Hosmer and North Fernie Bridge. Maintenance of bridges was limited due to the busy schedule of the bridge crew.

The replacement of the Bailey bridge over Lake Koocanusa with an Acrow Panel Bridge.

Shows transition piece to connect Bailey to acrow being installed.

Shows cat hooked to Bailey and acrow across.



Shows sidewalk installed on Bailey to accommodate pedestrian traffic.

Buildings

No problems with cleaning buildings were experienced, but several problems with B.C.B.C. getting changes or other repairs done remains a problem. A new salt shed was constructed by contract through B.C.B.C. at Sparwood. Sander and plow racks were constructed at Fernie, Jaffray and Sparwood yardsites easing the hookup of plows and sanders. Asphalt storage tank stands were constructed at Jaffray and Sparwood yardsites. Plans to install tanks and construct walkways are underway in the 1981–82 fiscal year. A walkway was installed on the asphalt tanks in the Fernie yard.

Other

Four earthen mounds were constructed as snow avalanche defense structures to protect vehicles travelling on Highway 3 south of Fernie.

GOLDEN DISTRICT

Roads

Maintenance: Improvements to various sections of the trunk highway system were undertaken. Shoulders on the Golden–McMurdo section of Highway 95 were surface sealed with MC2 for a distance of 24 km. Ditch and shoulder widening took place on another 20.8 km in the Castledale–Brisco section of the same Highway. Shoulders were re-shaped and sealed on 16.4 km of the Radium–Windermere section of Highways 93/95.

Trans-Canada Highway 1 received an additional 2.65 km of 27-inch guardrail along with some shoulder improvements as part of the ongoing guardrail program.

The District saw new pavement laid on 10.5 km of road including a 6 km section leading to Panorama Resort.

Repaving of 20 km took place on various roads and streets to strengthen and revamp older sections of pavement.

A 26.5 km section of Westside Road No. 2 between Invermere and Dutch Creek was sealcoated to preserve the existing pavement.

Dust control by the use of calcium chloride took place on 62.5 km of gravel road along with surface sealing of another 4.5 km. This program is considered very worthwhile in this area as it reduce the amount of maintenance and at the same time generates good public relations with the rural inhabitants and general public.

The survey and gazetting of Secton 4 roads is still an ongoing program in this District.

Farmers and ranchers took advantage of the Ministry's fencing policy for Schedule 2 highways by re-fencing 20 km of right of way along Kootenay–Columbia Highway 95.

Athalmer Overhead No. 2671 Arterial No. 674R, Village of Invermere.

New Bugaboo Bridge No. 6339 over Bugaboo River on Westside Road No. 2.

New Bugaboo Bridge No. 6339, completed in fall of 1980.

Construction: Contruction and re-construction took place on 8.8 km of side road to improve grade and alignment with an additional 2 km being regravelled.

Thirteen thousand (13,000) cubic yards of material was placed in the approach fills for the new Athalmer Overhead which was opened in August 1980.

Bridges

In the Spillimacheen area the new 32 m concrete box beam Bugaboo Bridge No. 6339 went into service over the Bugaboo River.

REVELSTOKE DISTRICT

Roads

Maintenance: General maintenance was carried out in all areas with a major machine patching program being undertaken on Nakusp–Mica Creek Highway 23 between Revelstoke and Mica Creek. Considerable machine brushing was done throughout the District, including Trans-Canada Highway 1, Balfour–Kalso–Galena Bay Highway 31, Nakusp–Mica Creek Highway 23, Hill Creek Road and Ward Road. 3000 m of 460 mm guardrail was replaced with 690 mm guardrail west of Revelstoke on the Trans-Canada Highway 1. M. & F. road stabilizer was used with good results on the majority of the gravel roads within the Revelstoke Foreman Area. The snowfall was below average for the year with the heaviest accumulations in December. Avalanche activity was relatively light with Trans-Canada Highway 1 at Three Valley and Nakusp–Mica Creek Highway 23 north of Revelstoke being closed for approximately 30 hours on December 9 and December 10 following a heavy snowfall. A rock slide on Trans-Canada Highway 1 at Summit Lake on November 12, 1980 covered the road with large boulders for a distance of 200 m closing the Highway for 8 hours, blasting was required to remove some of the larger boulders.

Construction: Reconstruction continued on Balfour–Kaslo–Galena Bay Highway 31 between Armstrong Lake and Trout Lake with clearing and culvert installations on 2.0 km. Construction was also in progress on 3.39 km of the West Side Road at Trout Lake. Reconstruction of Mychulac Road No. 205 and Ward Road No. 830 was undertaken for a total of 2.53 km. The construction and paving of the approach fills was completed for the new Eagle River Bridge at Kay Falls on Trans-Canada Highway 1.

Bridges

Bridge cleaning was completed on all bridges. Bridge railings from the Trans-Canada Highway 1 bridges west of Revelstoke were painted in the heated maintenance shed throughout the winter. Kay Falls Creek was diverted and Kay Falls Bridge No. 1267 was removed to accommodate a grade revision to improve the sight distance on Trans-Canada Highway 1. The bearings were repaired on Columbia River Bridge No. 1532. Stream channel maintenance was carried out on Avin Slides and Jack McDonald Avalanche Sheds. Minor repairs were completed on various other bridges within the District.

Ferries

M.V. *Galena* maintained a regular schedule throughout the year with the exception of a period from May 9 to May 14 when assistance from a tug was required to facilitate the removal and replacement of a pinion gear in No. 1 Voith Schneider Propeller unit. Vehicles had to back onto the ferry during this period.

CRESTON DISTRICT

Roads

Maintenance: Spring run-off was again uneventful with little erosion damage experienced at creek crossings.

Road restrictions on side roads helped keep frost damage to a minimum.

Most regular maintenance activities were completed within schedule with Minor Betterment Programs concentrating on extensive side road ditching and drainage correction and road base strengthening by gravelling.

Minor rest area improvements continued with further landscaping of the Lost Creek site and paving of the access road and parking area at the Blazed Creek site.

The guardrail program continued with the installation of 2,600 m of 690 mm concrete no-post guardrail being installed on Highways 3 and 3A.

Subdivision and permit applications were down this year with 108 subdivisions and 128 permits being processed.

Winter maintenance activities were again covered by a 24-hour three-shift system throughout the district.

With above normal temperatures and below normal precipitation winter maintenance activities were generally routine.

Kootenay Pass snowfalls totalled 670 cm which was 56 per cent of the long term average.

Recorded avalanches totalled 189 of which 84 affected the Highway with 40 of those blocking it.

Of the total avalanches recorded 81 were released by the avalauncher guns of which 34 reached the Highway with 21 blocking it.

A total of 688 rounds of explosives was used in avalanche control work this season.

Construction: Although no major construction projects were undertaken a busy construction season was again experienced with 7.21 km of side roads re-constructed; 5.7 km of side roads reshaped and strengthened by gravelling; 2.0 km of side roads repaved; 23 km of shoulder reconstructed and stabilized on Highways 3 and 3A; 0.8 km of Highway 3 fenced under the Schedule 2 highway fencing program; 1.4 km of new roads opened and constructed.

Highway closures totalled 135 hours and 40 minutes with the longest single closure being 44 hours and 30 minutes.

Bridges

Inspections and general maintenance were carried out on 28 bridges as required.

Repairs on permanent bridges involved cleaning, painting, lubricating rollers, sealing deck and other minor improvements.

Repairs on wooden structures involved work on decks, stringers, caps and end posts, general painting and other minor improvement.

Major bridgework involved replacing 12 foot wide Crawford Creek Bailey bridge with a longer 14 foot wide Bailey bridge; scarifying and resurfacing Meadow Creek and Russel Creek Bridges; completion of pier encasement and pedestal installations on Walker Bridge over the Goat River on Highway 3.

Buildings

District bridge crew carried out general maintenance as required on district salt and equipment sheds located in gravel pits at Creston, Kootenay Pass and Crawford Bay.

REGIONAL REPORTS

REGION 4

(L. A. Broddy, Regional Highway Engineer, Prince George)
Prince George, Quesnel, Dawson Creek, Fort St. John,
Vanderhoof, McBride and Williams Lake Districts

PRINCE GEORGE DISTRICT

Roads

Maintenance: Spring break-up in 1980 came earlier than normal which together with the very ght snowfall from the previous winter, few road washouts or floods were encountered.

There was no heavy frost heaving or damage caused to trunk highways or local roads. owever, the remaining portion of John Hart–Peace River Highway 97, north of Summit Lake hich is to be reconstructed, required major patching. The unpaved section under construction rth of McLeod Lake broke up very badly, requiring extra maintenance and gravel to keep the ction passable.

There was a long dry spring and an expected dry summer, however, just after construction mmenced so did heavy rains causing extra work on our road improvement projects.

The very little snowfall this past winter was welcome with respect to snow removal activities. e warm periods did cause melt-thaw conditions in January and February which resulted in vzen culverts and drainage systems. The maintenance crews spent many hours clearing culverts d waterways to assist local residents to avoid flooded homes.

Construction: major improvements were carried out on 23.10 km of miscellaneous school s routes and feeder routes within the District.

8.0 km were cleared in preparation for future construction.

8.4 km were reconstructed or gravelled on the Upper Fraser Road.

2.8 km were gravelled on the Old Summit South Road in preparation for a paving contract.

Day Labour on trunk highways consisted of widening and paving 2 km of Cariboo Highway South from the new Fraser Bridge.

Major patching was performed on 30.0 km of the John Hart–Peace River Highway 97 north Bear Lake.

1.4 km of 27 inch guardrail was placed on trunk highways throughout the district, and 12 km Schedule 2 highway fencing was completed.

Bridges

Two 62-foot log stringer bridges were completed on Dome Creek Road over Dome Creek, l on Longworth Road over Hungry Creek. The entire railing of New Nechako Bridge was dblasted and painted. Also, 40 sidewalk concrete slabs were fabricated and installed.

Bearing repairs were completed on the Willow River Bridge.

The bridge crew assisted in the total repair of the Vanderhoof Bridge, damaged by fire.

Damage repairs and regular maintenance were carried out on the remaining bridges ughout the District.

The Bridge Branch resurfaced four concrete decks in the District, namely the Bowron lge, Willow River Bridge, new Nechako Bridge and the new Fraser Bridge.

Buildings

A modular home was received for a foreman, and the recreation building was put into use at Slim Creek.

Two former Forestry buildings were taken over at Aleza Lake as living accommodation for our personnel. Our bridge crew also constructed a salt shed in the Aleza Lake yard.

An office storage trailer was installed in the Chief Lake area establishing a grader station.

Ferries

The Isle Pierre Ferry was out of service until July 1, 1980, due to low water conditions, but remained in operation until November 3, 1980 when it was again removed from operation due to low water conditions. As of March 31, 1981, the ferry remains out of service.

QUESNEL DISTRICT

Roads

Maintenance: Winter damage was not extensive. Minor frost boil repair was undertaken throughout all Foreman Areas.

Spring runoff provided only routine maintenance problems and damage was lighter than previous years.

Dust Control was undertaken with calcium chloride, principally in Foreman Areas A and B and totalled 110 km.

Construction: Two Mile Flat Section of the Cariboo Highway 97 was widened to four lanes. The first lift of asphalt was completed under contract.

The new McLarry Bridge approaches on Barkerville Highway 26 were 90 per cent completed. An extensive construction and upgrading program totalled 60 km throughout the district.

Ferries

The reaction ferry at Marguerite was operated from early April to mid-November. The Aerial Cage ferry was used during the winter months.

Bridges

The Larson Bridge was destroyed in a truck-cat accident and replaced with an Acrow-panel structure.

The Narcosli Bridge and Swan Bridge structures were replaced with precast concrete beam structures.

Maintenance repairs were undertaken on numerous bridges throughout the District.

DAWSON CREEK DISTRICT

Roads

Maintenance: The 1980 spring was dry with little snow left from the winter, therefore few breakup problems were encountered. The dry weather during April and May caused an early high demand for dust control.

June brought rain which persisted until late into September reversing the dust control demand to a demand for gravelling. Budget and Day Labour funds were mainly directed into the gravelling activities.

The winter of 1980–81 was again record warm. Snowfall was average, except low in the Pine ss. The snow came mainly in two storms during December. These heavy snowfalls created avy demands on District and hired snow removal equipment. Weather changes continued into bruary, however March was warm and dry. Shift crews were directed into minor betterments and nter day labour.

Freezing and melting conditions during March created unusual culvert freezing problems d all available Ministry and hired steamer culvert cleaning equipment was used. All areas had ven day per week maintenance coverage during the winter.

Construction: Day Labour work again played an important part in District activity by oviding access to natural gas and coal resources. Also, day labour funds helped to relieve rdships on rural residents by improvements to substandard roads in the form of upgrading, avelling, regravelling, and paving of rural roads.

The major Day Labour work consisted of relocation, clearing, grading and gravelling on 33.6 n on the Grizzly Valley section of the Heritage Highway. This section was 90 per cent completed. rthermore, 1.5 km was reconstructed on the Muskeg Lake Hill. This portion included drilling d blasting rock. Reconstruction continued on the Jackfish Lake Road which included 5 km of ading and gravelling and major intersection improvements at the intersection of the Jackfish ke Road and Highway 29. Extensive continuous machine patching was done on 16 km of John rt Highway 97 in the Pine Pass, 1 km of John Hart Highway 97 Arras section, 2 km on the aska Highway 97 on the Peace Hill and 1 km on 8th Street Arterial, Dawson Creek. Grader ced pavement was placed on 6.4 km of farm and settlement roads near Dawson Creek. In dition, there were 139 km of regravelling, 40 km of new gravelling and 31 km of reconstruction mpleted on various farm and settlement roads in the Dawson Creek Highway District.

Paving

The following sections of highway were surfaced or resurfaced by Paving Branch contract.

(a) Resurfacing John Hart Highway 97 in the Pine Pass–Kathleen Creek to Silver Sands, 20.9 km.

(b) Resurfacing John Hart Highway 97 East Pine to Groundbirch, 23.2 km, including 3.0 km truck lane section on the East Pine Hill.

(c) Fellers Heights section of the Heritage Highway from the John Hart Highway 97 to 17.0 km south, new pavement including truck lane sections on the hills.

Bridges

The Dawson Creek Bridge Crew had a light year pertaining to Day Labour budget con- uction, except on a special project on the Northeast Coal access. Two bridges, Q8032 Babcock l Q8033 Flatbed No. 2, were constructed with a total of 39 linear metres of concrete and 7.4 tres width at deck concrete, box stringer type. Also, Bridge Q2286 Twidwell Bridge ice nage of December 1980 was repaired and was upgraded to handle heavy traffic into the rtheast Coal Development.

Furthermore, 78 District bridges had varying amounts of maintenance including inspection l washing.

Ferries

The Clayhurst Ferry shut down January 17, 1981 this year due to an ice jam on the Peace er. Service was again restored March 1981 after much effort was expended moving ice which d up 4 metres deep by 150 metres on the approach roads. Other interruptions in service were 8 rs motor change September 17, 1980 and 13 days, December 17–30, due to heavy ice flow in Peace River. Traffic on the Ferry was heavy during the summer and fall due to grain and stock vement to Dawson Creek from Clayhurst, Bear Canyon and Cherry Point.

"A"

The Clayhurst Ferry shut down January 17, 1981 this year due to an ice jam on the Peace River. Service was again restored March 16, 1981 after much effort was expended removing ice which was piled up 4 metres deep by 150 metres on the approach roads. Photos show the ice jam in the vicinity of the Ferry crossing. Other interruptions in service were 8 hours, motor change September 17, also 13 days, December 17 to December 30 due to heavy ice flow in the River.

"B"

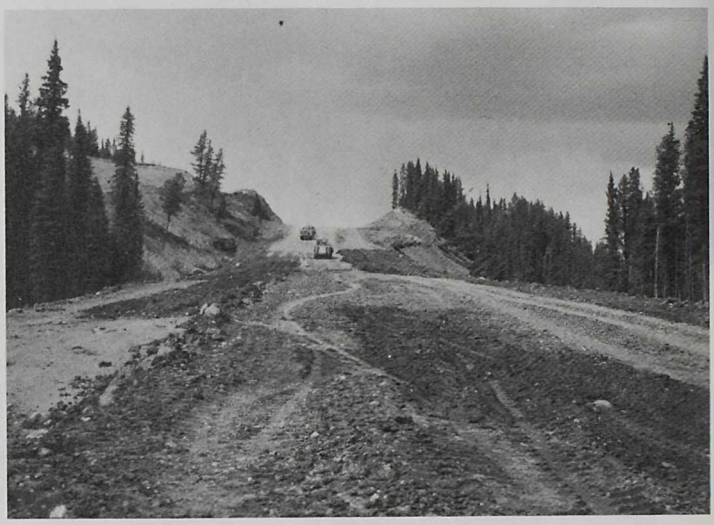
Heritage Highway, Fellers Heights section reconstruction of the Muskeg Lake Hill. Some drilling and blasting was required to remove the necessary cut section. Good weather conditions during February and March allowed for good progress on this project. This highway will provide the shortest connection between the Tumbler Bridge Townite and Dawson Creek.

"C"

Winter gravelling along the Heritage Highway. 18 km were gravelled during February and March of 1981 and 12 000 m^3 were stockpiled. Winter gravelling is economical as pits are often not located along the highway and hauling on frozen ground avoids pit access construction. Also, frozen grades allow loaded trucks to roll free and reduce hauling costs.

"D"

Heritage Highway construction on the Grizzly Valley section. Photos show three locations during the summer of 1980. Wet weather persisted all summer and made progress slow and frustrating.

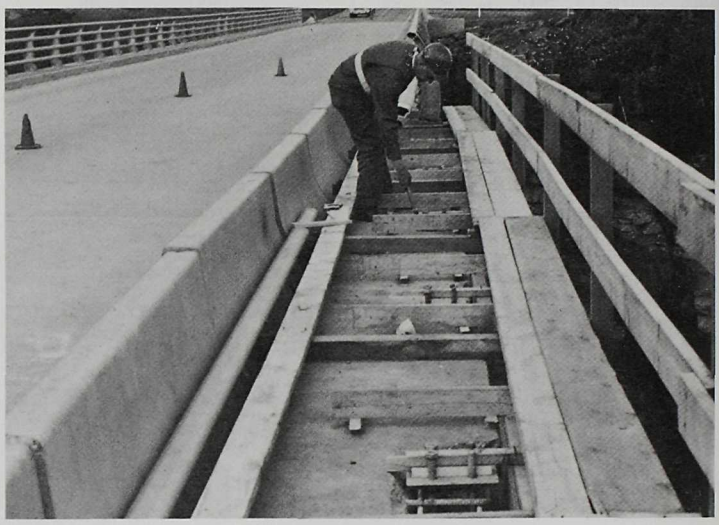


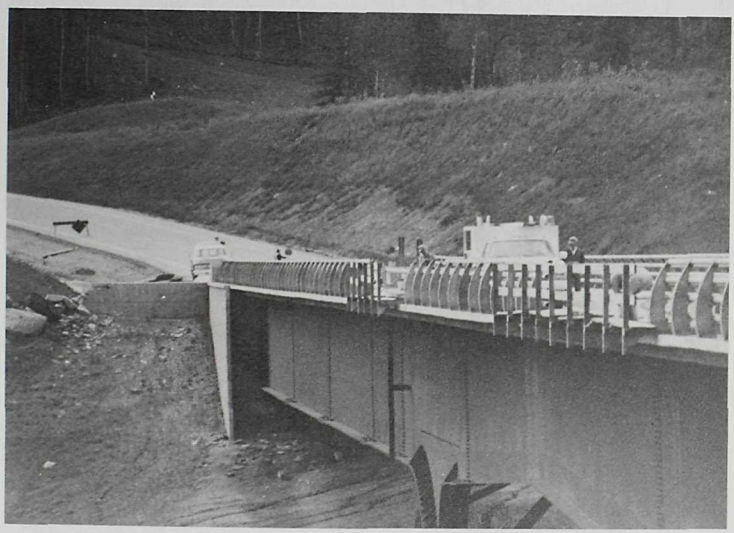
"E"

Minor winter day labour construction, multi-plate culvert replaced at Par Bridge. The pipe bed was prepared, pipe assembled and bedded in gravel by District shift crews during periods of time when highway maintenance work loads were low. Sufficient backfill was placed to protect the pipe during spring runoff. Final road construction will be completed during May 1981.

"F"

Accident repair on the Kiskatinaw Bridge No. 2606, on the Alaska Highway 97, was done by the Dawson Creek bridge crew. Photos show various stages of the railing and deck repairs.



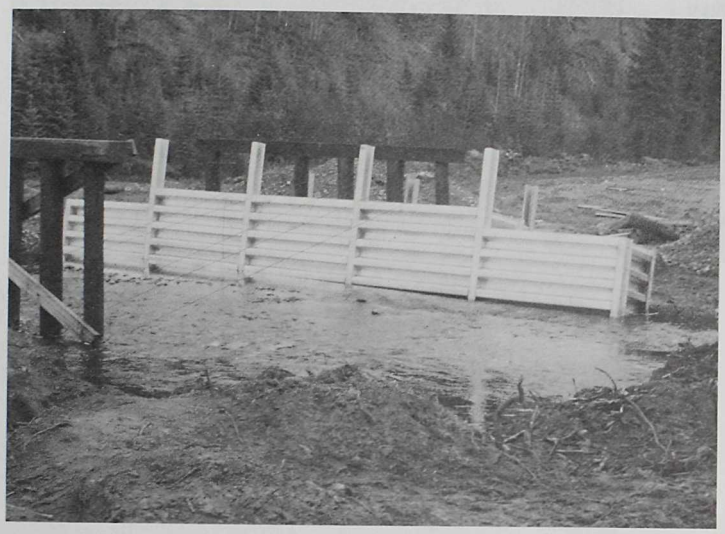


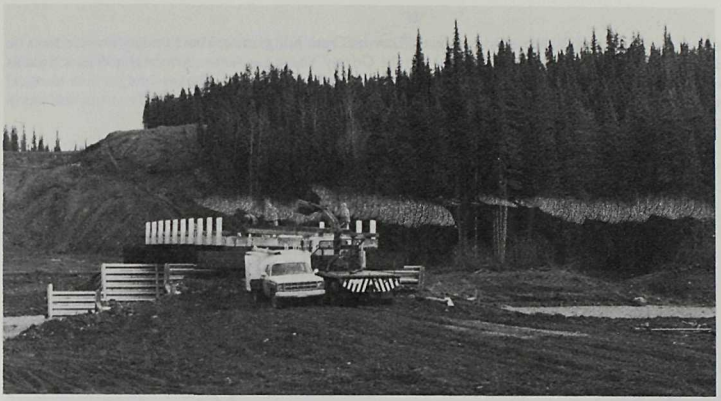
"G"

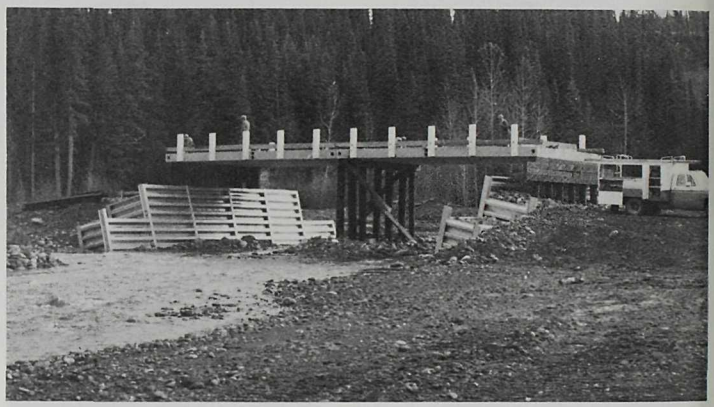
Heritage Highway, Dawson Creek Highway District, N.E. Coal and Gas Field access, 10 km were reconstructed and ready for paving from Highway No. 2 south.

"H"

Construction of the Flatbed and Babcock Bridges by the Dawson Creek bridge crew. These bridges provide links on the Heritage Highway which is access to the N.E. Coal and the Grizzly Valley gas fields. Armco Bin Wall is used as retaining walls, treated fir piles, caps and concrete box stringers make up these structures. The two bridges were identical with the exception that the centre pier on Babcock Bridge has a concrete footing at the centre pier. Road construction was in progress during the bridge construction.







"I"

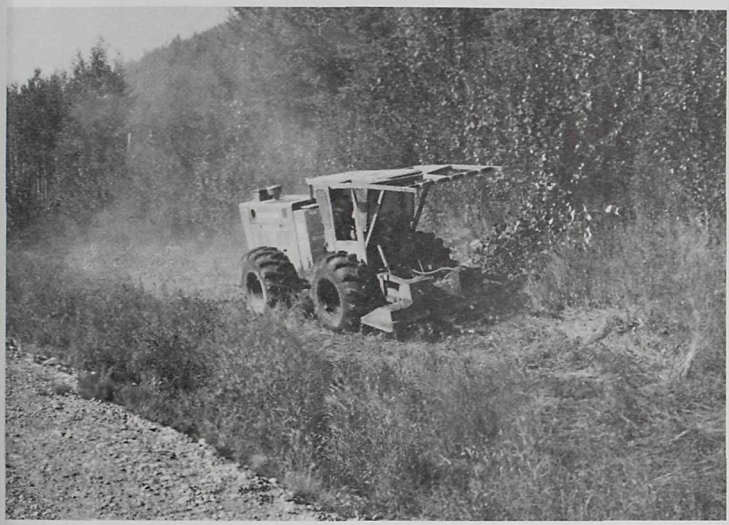
Dawson Creek District patching crew repairing pavement on the Hart Highway 97. The District employs this crew full time if weather conditions permit repairing of various sections of deteriorating pavement. Both hot mix and cold patch mix asphalt is used, depending on which is available.

"J"

Dawson Creek Highway District bridge washing crew. Every effort is made to wash all concrete deck bridges soon after spring breakup to remove damaging salt left-over from winter snow and ice control.

"K"

Dawson Creek District machine brushing along the Hart Highway east of the Pine Pass. This unit which is a Kersbain
axe cuts and shreds brush up to 6 inches in diameter. This is a good method to control brush over a five-year re-
ng cycle.



FORT ST. JOHN DISTRICT

Roads

Maintenance: The early dry spring eased drainage and road base deterioration problems, but necessitated an early demand for dust control. However, the summer was wet throughout, causing difficulty in maintaining the unpaved roads. The winter was unusually mild with little snow resulting in an easy winter for snow removal but causing difficulties with maintenance of unpaved roads. The extensive activity in the forest and petroleum industries continued, putting heavy demands on several of the roads. Development in the vicinity of Fort St. John continued at a rapid pace, necessitating a continued increase in permit and subdivision processing.

Construction: Construction activity commenced on May 20, 1980 and carried on until November 29, 1980. The very wet summer caused several delays. The program included 35 km of road reconstruction to an improved standard, 457 km of road gravelled; or regravelled, and 9 km of road prepared for paving. Some 42 km of new grade construction and gravelling for the Ministry of Lands, Parks and Housing at Farrell Creek was completed. The new Liard Highway grade construction was completed to the British Columbia–North West Territories border. A major ditching project of approximately 1 km length was undertaken along the Alaska Highway 97 in Fort St. John to assist the city in drainage control.

Bridges

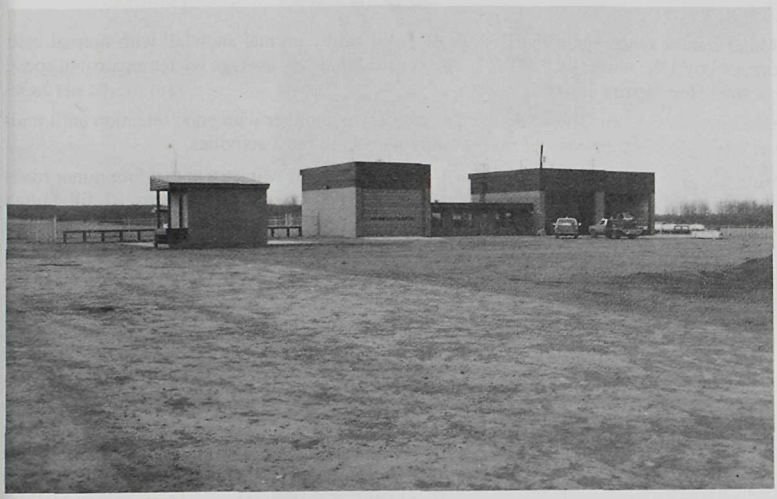
Two bridges were replaced—one by a precast concrete box stringer structure and one by a 3,050 mm diameter pipe. One bridge received major reconstruction to an improved standard. Numerous bridges required repair after damage owing largely to the heavy industrial traffic.

Buildings

New modern facilities were completed in November at the Rose Prairie Maintenance Establishment, and are now being utilized and appreciated by the staff.

Ferries

The Hovercraft Ferry at the Fort Nelson River crossing of the Liard Highway went through its second season of operation. Modifications and improvements continued as required. The ferry was heavily used throughout the season to facilitate the public, the forest industry, the petroleum industry, and the continued construction of the Liard Highway north of the river.



New Facilities at Rose Prairie Maintenance
Establishment—Fort St. John District

VANDERHOOF DISTRICT

Roads

Maintenance: Once again the District received below normal snowfall with normal cold temperatures over the winter of 1980–81. This resulted in below average winter repairs but above average road base repairs during break-up.

Calcium chloride was spread by the district and the supplier with good retention until mid-summer when frequent unseasonal rain showers hampered most activities.

Minor betterments in all four foreman areas benefitted the Ministry in that four minor roads received considerable upgrading, a frontage road was constructed, Highway 27 fill failure received continued renovations and the Vanderhoof Yard was expanded providing adequate storage for materials while the landlord refenced the entire compound.

At present an extensive pavement patching and crack filling program is underway since the mild wet winter had severely affected most paved surfaces.

Construction: A late beginning on construction with only a moderate program resulted in 8.13 km in new construction of which 80 per cent was completed. Another 17.15 km received ditching and gravelling and 2.50 km of farm roads were completely rebuilt. Then, beginning in September, work began on construction of the revised Highway 27 from the Yellowhead Highway 16 north for 7.5 km. This project entails the approaches of two structures; the C.N.R. overhead and the Nechako River crossing. Work terminated in December 1980 but began again in late February 1981 and continued to year end. With one half of the grade complete to subgrade, this is only 20 per cent of the work based on the consultants' cost estimate.

Fencing of Schedule 2 highways resulted in 6 km of fencing while 0.52 km of guardrail was placed completing both programs for this fiscal year.

Bridges

Thirty-seven structures received maintenance attention, this work included washing, repairing decks, strong backs, railing, wheel-guards and piers.

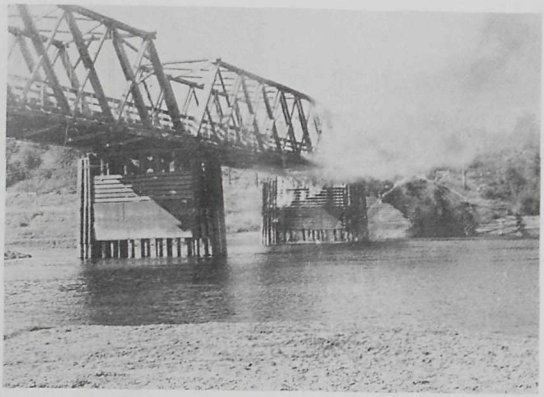
Endako River Bridge 2 is currently being dismantled as the new permanent structure on a new route was opened October 1980.

Chilco Bridge 7807 was widened 2 m and Cottonwood Bridge 6990 widened 1 m. Spencer Pit Bridge, a 10 m log stringer span, was rebuilt using all untreated material.

Nechako Bridge 250, Vanderhoof, had approximately 130 feet of decking and one pier destroyed by fire at 1700 hours July 23, 1980. Emergency repairs were completed by 2100 hours Friday, July 25 for maximum loads of 15 tonnes. This allowed traffic access to the weekend Vanderhoof Airshow. Then, from July 28 the Vanderhoof and Prince George Bridge Crews worked 12-hour shifts each, completing all repairs by August 7, 1980, opening the structure once again to legal loading.

Mine Roads and Trails

Winter maintenance on the Omineca Mine Road from 64 km to 221 km at Germansen Landing was carried out using a hired grader.



Nechako Bridge No. 250 Vanderhoof, Fire July 23, 1980.

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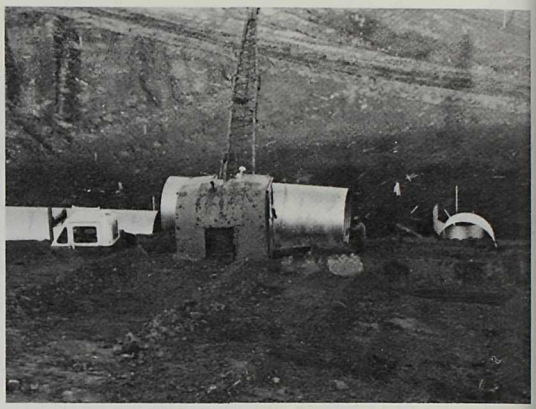
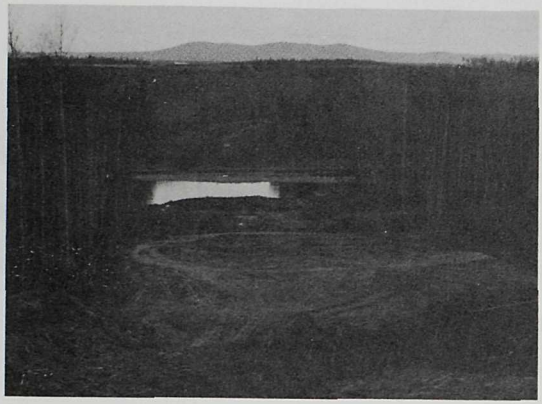
Nechako Bridge No. 250 Vanderhoof, Fire July 23, 1980.



Installing 7-foot diameter pipe in north arm of Stoney Creek for New Nechako River Crossing, 1980.

New Nechako River Crossing, curve south of C.N.R. tracks (looking north), 1980.

New Nechako River Crossing, north of C.N.R. tracks, 1980.



New Nechako River Crossing, ooking south, 1980.

Construction grade New Nechako River Crossing between C.N.R. overhead and Nechako River, using borrow pit.

Building grade, New Nechako iver Crossing at junction of Highway 6.

Construction grade New Nechako River Crossing between C.N.R. overhead and Nechako River.

McBRIDE DISTRICT

Roads

Maintenance: McBride had several areas of road base failures in the Mount Robson area on the Yellowhead Highway 16. These areas were excavated and backfilled with a good granular fill. Filter cloth was used throughout to eliminate gravel contamination by silt and perforated subdrains were laid in selected spots where road base drainage was required.

The above noted procedure was also used on a 50 m stretch on the Dunster Station Road and on the Yellowhead Highway 16 west of McBride, known as the West Twin. Shoulder widening and re-ditching was carried out on a 1.3 km stretch of the Yellowhead Highway 16, known as Ferguson Hill, which allowed curbing and drains to be installed. Extensive hand and machine patching was also completed on the Yellowhead South Highway 5 and Yellowhead Highway 16.

Construction: In 1980 McBride District reconstructed 4.2 km of road, which included reconstruction of Loseth and Blackman Roads near Tête Jaune to accommodate the C.N. development in the area. This total, also included reconstruction of Eddy and Channel Roads in the McBride area.

The District carried out 2.3 km of Schedule 2 fencing and 1.7 km of fence repairs.

Paving

Peter Bros. Ltd. completed paving 21.5 km of the Yellowhead Highway 16 west of McBride. Columbia Bitulithic Ltd. was awarded the contract to pave 48.7 km in 1981 from Tête Jaune Junction to Moose River and including Mount Robson and Hargreaves Road. Whiskey Fill Road was paved by drum mix with graders for a distance of 2.1 km.

Bridges

All bridges were washed by mid June and deck patching had commenced. Morgan Creek Bridge, a 6.8 m wooden structure, was replaced in the fall. The McLennan Bridge on the Old Tête Jaune Road was replaced by a concrete stringer structure.

The Lamco Bridge was washed out by winter flooding and ice flows. An alternate access was opened within 24 hours and the log stringer bridge replaced in 15 days.

McLennan Bridge No. 6846

WILLIAMS LAKE DISTRICT

Roads

Maintenance: Spring break-up problems in 1980 were again minor due to light snowfall and the continuing program of road base strengthening on major collector roads. The dry winter and spring was followed by a period of excessive rainfall during the summer which allowed more normal grading of 1,400 km of gravel road surface, although some rough conditions were encountered during the wettest periods. Heavy logging traffic on all main roads continues to challenge the ability of maintenance crews to retain a smooth surface.

Improvements to the Bella Coola Hill over the years allowed the first logging traffic to use this tortuous route.

Early snowfall followed by heavy rains in mid December caused road closures and considerable damage to our road system and to private property in the Bella Coola Valley.

Snowfall during winter of 1980–81 was again light but icing conditions were excessive at times requiring use of a considerable amount of chemicals and sand.

Construction: Major works were carried out on 122 km of road with the largest expenditure being spent on relocation of Chilcotin-Bella Coola Highway 20 at the Bayliffe Bypass. The Cariboo Highway 97 was widened at several locations north of Williams Lake to prepare left turn slots subsequently paved under contract during repaving from the Williams Lake to the Quesnel District Boundary. Horsefly, Likely and Dog Creek Roads again received attention in a continuing program to reconstruct and pave these industrial arteries. New roads taken over and improved included Mons Lake and DeSous Lookout. The Dean River Road north of Anahim Lake was extended a further 5.5 km to serve isolated residents. Minor roads improved included Tatlayoko, Chezacut, Big Creek, Stum Lake, Alexis Lake, Chimney Lake, Jessica Lake, Spokin Lake and Knife Creek.

Bridges

Willis Bridge over Snootli Creek near Bella Coola on Chilcotin-Bella Coola Highway 20 was washed out in September after a week of heavy rain. A 100-foot Bailey span was installed as a temporary replacement.

Hatchery, Grant No. 2 and Grant No. 3 were renewed with pile trestles while Saugstad, Skimlik and Thorsen No. 2 on the Chilcotin-Bella Coola Highway 20 were replaced using prestressed concrete box stringer spans.

The footing of the west pier of Chilcotin Bridge over the Fraser was strengthened with concrete while 68 other bridges received regular maintenance and cleaning.

Buildings

During the year B.C.B.C provided a new shop and gas house at Horsefly yard, a new storage shed at Williams Lake and made major renovations to the Anahim Lake shop.

REGIONAL REPORTS

REGION 5

(D. P. Doyle, Regional Highway Engineer, Terrace)
Prince Rupert, Terrace, Dease Lake,
Smithers and Burns Lake Districts

PRINCE RUPERT DISTRICT

Roads

Maintenance: Spring breakup of Highway 37 and Highway 37A kept the maintenance crews busy on repairs. The Stewart crew replaced one bridge with two 72-inch culverts prior to paving Highway 37A. The District crews also constructed several rest areas both on the Highway 37 corridor and on the Queen Charlotte Islands.

Emphasis was placed on dust control, grading and ditching during the year. Serious flooding occurred on Highway 37A and at Sandspit last fall.

Another mild winter was experienced with the heaviest snowfall of over 1,000 cm in one 24 hour period occuring in mid-December. This resulted in avalanches releasing and covering about 2 km of highway in Bear Pass area. Single lane traffic was restored after a 10-hour road closure.

Construction: Some 27 km of highway between the Nass River Bridge and Surprise Creek was upgraded with a multi-plate culvert installation on Highway 37A, thereby eliminating a wood stringer bridge at Argyle Creek. An extensive guardrail installation program occurred throughout the District. Special emphasis being placed on bridge approaches and newly paved sections of highway.

Wheelchair ramps were constructed at curbs on the arterial highways in Prince Rupert and Masset.

Bridges

The destruction by fire of the Bear River Bridge at Stewart was the focal point of the year. The road connection was restored by the installation of two 120-feet Bailey bridges interconnected by an island. Highway 37A was closed for 3 days for this work. Baileys were erected at the Entrance Creek, Highway 37A and at White Creek, Toehill, Queen Charlotte Islands. The White Creek bridge was replaced by a new log stringer bridge.

Garages

All four shops were accident-free for 1980, a tremendous improvement over 1979. The mild winter allowed the shops to gain ground on their preventive maintenance program.

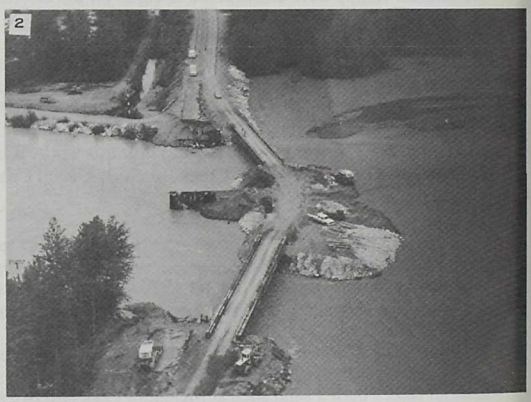
Buildings

District forces built a sand shed at Meziadin Lake and two salt sheds on the Queen Charlotte Islands. The Prince Rupert maintenance establishment should move to their new building mid-year and the District office should move to new accommodations in the fall.

Ferries

The advent of the B.C. Ferry service from Prince Rupert to Skidegate has had an impact on the operations of the M.V. *Kwuna*, increasing the demands on the *Kwuna*, which have been ably met.

Bear River Bridge tumbles after fire strikes it on June 30, 1980.



Two Baileys in place and detour completed on July 4, 1980, ready for traffic.

Osland Board Walk on Smith Island.

Avalanche on Highway 37A in the wart area.

TERRACE DISTRICT

Roads

Maintenance: Major drainage and road widening was completed on a 4.5 km section of Old Remo Road. Road widening was undertaken on a 1.6 km section of Kalum Lake Road. There was extensive work done on machine brushing and road regravelling. Sections of Highway 25 were upgraded with an asphalt leveling course. Calcium chloride was used extensively throughout the district on the side roads for dust control. Rip-rapping a section of Highway 25 was undertaken.

A below average snowfall resulted in a reduction of snow removal costs. There were no avalanches on Highway 16 west of Terrace. The winter was recorded to be the warmest since 1926.

Construction: Reconstruction was undertaken on Old Lakelse Lake Road, for an 8.7 km section. Right of way clearing was complete and approximately 4 km of road was reconstructed.

Douglas Road was reconstructed to reduce the grade on a steep hill and to widen the road on a 0.4 km section.

On Yellowhead Highway 16, a left turn slot was constructed on Ferry Island involving highway widening, paving and moving lamp standards which improved the access to the District of Terrace's new tourist campsite.

Also on Yellowhead Highway 16, bridge approaches were repaired and re-established at the bridges that were damaged during the 1978 flood. This involved four bridges which required stream channelization, rip-rapping, road construction and realignment.

Bridges

Major bridge repairs were undertaken on Thornhill Creek Bridge (Queensway), Skeena River Bridge, Snowbound Bridge and Polywog Bridge involving redecking, placing new X-ties and erecting new posts and fence rails.

A new bridge was constructed at Braun's Island replacing an old Bailey bridge. Camp Creek Bridge was completed on Kalum Lake Road. On Old Lakelse Lake Road, Sockeye Bridge was completed on a new alignment and Thornhill Bridge was partly constructed, also on a new alignment.

Buildings

A three-bay cold storage shed was constructed in the yard. Plans for a sand shed at Salvus Camp are in the preliminary design stages which should be ready for construction in the 1981–82 season.

Ferries

Routine maintenance was carried out on the Usk Reaction Ferry and Cable Car. The motor in the aerial ferry was removed from the side of the car and relocated on the bottom, reducing noise and gas pollution in the car. A new reaction ferry with longer pontoons was constructed.

DEASE LAKE DISTRICT

Roads

Maintenance: Annual maintenance throughout the District directed major concentration towards grading, drainage improvements and regravelling.

Dust control using calcium chloride was carried out on various sections of Highway 37 including Iskut, Eddontenajon, Tatogga Lake, as well as several bridge sites.

In October, there was high water in the Ninguinsaw River resulting in District Forces constructing wing dams to protect a portion of Highway 37 from washout.

The District experienced a rather large turnover in Maintenance Personnel in the past year, d supervisors are to be commended for accomplishments well done under rather difficult nditions.

Snowfall was considerably less this winter than in years past. Periodic storms during the rly part of the winter caused some havoc, but did not result in any road closures.

Construction: Construction in this District saw the completion of the grading project from lla Mines Road to Centerville on the Cassiar Highway.

Ditch construction was carried out in two areas; from Tanzilla River to Gnat Lake and from dder Lake to Glacier Creek on the Cassiar Highway.

A total of 76 km of the Cassiar Highway was regravelled, some of which was in preparation the graded aggregate sealcoat.

The Dease Lake Airstrip was upgraded to a length of 1,920 m. The upgrading included anging the vertical and horizontal alignments of the runway, relocating about 3 km of the egraph Creek Road around the new strip, construction of taxi ways and service areas, as well as rushed gravel surfacing of the above.

Paving

A graded aggregate seal was completed on a 24 km section of Highway 37, from the Della nes Road to Champion Lake. This work was undertaken by a Headquarters seal crew in July l August, 1980.

Bridges

Bridge Maintenance was carried out on 23 structures within the District. The majority of rks completed included deck repair, wheel guard and crib replacement.

The Quartz Rock Creek Bridge was replaced with a 30.48 m Acrow Bailey due to structural ure of the old King Truss. The Tatsho Creek Bridge was replaced with a 24.38 m double single ndard widened Bailey bridge. Emergency repairs were affixed to the Thomas Creek Bridge, en a large transport truck damaged a 10 m section of this Bailey structure.

Buildings

Three Ministry residences were completed in 1980 at Dease Lake. In addition to this, nerous modifications to District yards, garages, and various complexes were also completed.

SMITHERS DISTRICT

Roads

Maintenance: Winter weather was remarkable, with snow arriving much later and snowfall ng less than usual. Mild temperatures reduced the accumulation of snow but resulted in very ere icing conditions. Reduction of snow plowing activity was counter balanced by a marked rease in application of chemical and sand. When milder weather arrived in early March crews e continually at work attending to frozen culverts and flooding problems.

Road restrictions were generally less severe than normal with a number of side roads being l at legal loading. The regular maintenance program was followed in all foreman areas with phasis on further improving drainage.

Construction: 15 km of the Kispiox Road were reconstructed and widened in readiness for ing. The Minor Betterment program provided for further improvements on the Kit-ga–Cedarvale Road and the Poplar Park Road.

Bridges

The bridge across Driftwood Creek on the Telkwa High road was replaced with a pre-cast concrete stringer three span structure on treated wood piles.

BURNS LAKE DISTRICT

Roads

Maintenance: Generally the maintenenace program progressed without incidence. However, unusual weather patterns during the seasons caused many problems which through innovation and hard work were overcome. Pavement repair work included large asphalt patches and quite a number of man-hours spent on crack sealing.

Winter operations were somewhat different in terms of snow plowing, as it seemed more a battle of ice than snow.

The level of services provided the travelling public during 1980 was kept to the usual standard plus additional service in unusual circumstances.

Construction: The Day Labour projects were numerous throughout the District and were completed on time without undue delay to the travelling public.

The Southbank paving contract was started in late June but weather and mechanical difficulties hampered completion. However, 95 per cent of the bottom lift was completed.

The trim dock was built into a dry dock by adding onto the existing trim dock, completing the structure as was originally designed. The structure now provides the means to dry dock each of the ferry vessels, namely the *Omineca Princess* and *Jacob Henkel*.

Bridges

The bridge crew was very busy completing the Strimbold Bridge over the Bulkley River at Topley; extensive repair work on the North and South docks; fabricating a 20-foot multi-plate culvert; general maintenance and inspection on all bridges. The bridge crew also assisted in placing and connecting the new dry dock to shore facilities.

Buildings

General repair and maintenance of buildings was completed by B.C.B.C. A new assembly trailer was added to the Southbank establishment until a new complex is completed.

Ferries

A very busy year for each vessel was experienced on the François Lake Ferry Service. The *Omineca Princess* was running overflows daily, while the *Jacob Henkel* was assisting with various manoeuvers placing the dry dock and barges used by the Bridge crew in connecting to shore facilities.

REGIONAL REPORTS

REGION 6

(B. A. L'Hirondelle, Regional Highway Engineer, Nanaimo)
Nanaimo, Saanich, Port Alberni and
Courtenay Districts

NANAIMO DISTRICT

Roads

Maintenance: All area foremen achieved acceptable goals in maintenance activities and rried out extensive minor betterment programs. The minor betterments were geared towards oviding shoulder width for increased pedestrian traffic. A successful sealcoating program was mpleted covering sundry side roads in Duncan area and Gabriola Island. Severe flooding oblems were encountered late December 1980 and resulted in extensive repair work restoring ads and drainage facilities. Snowfall was light.

Construction: A road mix asphalt program was completed on Thain Road and a portion of nfrew Road. Sallachie Road was reconstructed. Shoulders were added to the Cowichan Valley ghway 18 between the Trans-Canada Highway 1 and Meade Creek. A portion of Chemainus ad was widened. A new rest area was completed on the Trans-Canada Highway 1 at Cassidy. A mber of other roads were reconstructed and paved; North Road, South Road, Biggs Road, vid Road, and South Shore Road.

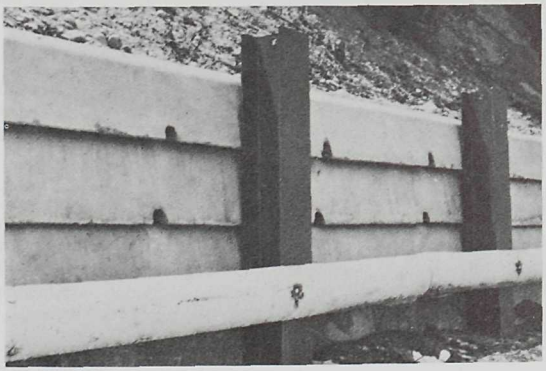
Bridges

Reconstruction was completed on Findley and Lower Meades Bridges utilizing concrete box am stringers. Bridge maintenance activities were completed to satisfactory goals.

Three bridges were damaged during the December 1980 floods, the most notable being per Meade Creek (a concrete and steel structure) which was washed out and closed. An Acrow dge was installed immediately in order to carry traffic until the bridge could be rebuilt.

Buildings

A satisfactory building maintenance program was carried out in all areas and all the buildings both the Duncan and Nanaimo Highways Yards were painted.



etaining wall built by Nanaimo rict Bridge Crew at Cowichan utilizing old 18-inch concrete drail and steel H pile cutoffs.

SAANICH DISTRICT

Roads

Maintenance: A total of 17.4 km of District roads was chipsealed using a high float emulsion with very good results. The District conducted tests with the "U.P.M." patch material supplied by the Director of Maintenance Services. This product has proved to be ideal for winter patching.

The Urban Transit Authority extended bus service to the Saanich Peninsula and the Western Community. Over 350 bus stops were signed and bus bays and stops will be improved in the future.

The last sections requiring landscaping on the Blanshard Street Extension were completed by contract and turned over to the District for maintenance. An alarm system was placed in the Portage rest rooms to alert the police to vandalism and has proven successful.

The District developed two tourist information sites complete with landscaping and paving. One is on the Trans-Canada Highway 1 and operated by the Western Community Chamber of Commerce and the other on the Patricia Bay Highway 17 operated by the Greater Victoria Tourist Bureau.

The District manufactured 3,765 m of 690 mm reinforced concrete guardrail which was down from previous years production due to the cement workers strike. The District worked with the Highway Safety Engineer in developing forms for the new median guardrail configuration.

Notable minor betterments were to the Port Washington–Otter Point intersection and the paving of the left turn slot on Highway 17A at Markham Street. Curbing and pedestrian facilities were constructed in the Sooke Townsite and on Lagoon Road in Colwood. Settlement at the approach to the Quadra Street Overpass required a major lift and repaving.

Construction: The major project undertaken by the District was the reconstruction of Helmcken Road to serve the new Victoria West General Hopsital. The sewer line installation in North View Royal was followed with a 3.7 km paving project. A small contract was called to pave 0.7 km on Fernwood Road, Salt Spring Island and the District forces rebuilt the Beaver Point intersection. The District also carried out reconstruction and repairs on slides on Morningside Drive and the West Coast Road.

Bridges

The Bailey bridge at Harris Cover, Port Renfrew, was replaced with a new galvanized Acrow structure. The Phillips Bridge in Sooke was rebuilt using pre-cast concrete deck slabs and the Barker Bridge on Highland Road was replaced with a multi-plate arch structure.

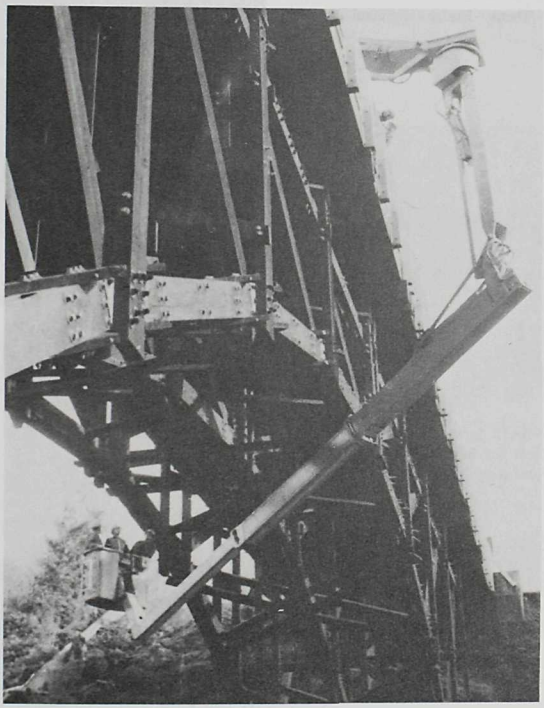
Subdivisions and Permits

The shortage of housing precipitated a large increase in subdivisions and access permits and is anticipated to continue into 1981–82. For the 1980 calendar year, the District processed 727 subdivisions rezoning and development permits, an increase of 24 per cent. Permits totalled 1,062 which was an increase of 9 per cent.

Equipment Fabrications

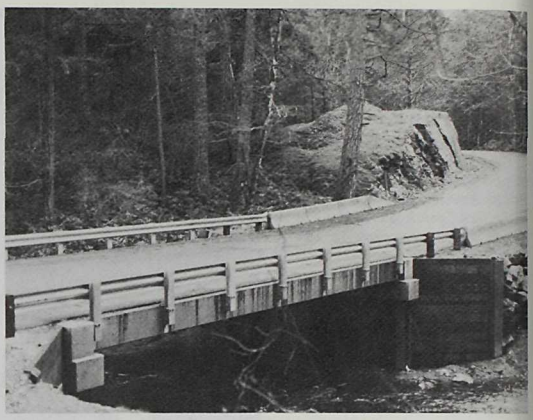
The Langford shop employed seven auxiliary welders and machinists to meet the demand for hydraulic systems, sanders and mountings. The shop also carried out modifications to the new electronic sand/salt control units and quick change modifications for body sanders.

The "Super Snooper" is shown on nspection of the Sombrio No. 2 Bridge. This bridge, which is located on the West Coast Road, was built by a private logging company in 1946.

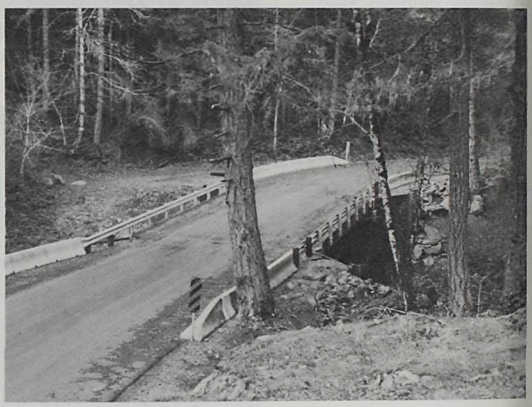


The "Super Snooper" at the Rose- mond Bridge, West Coast Road.

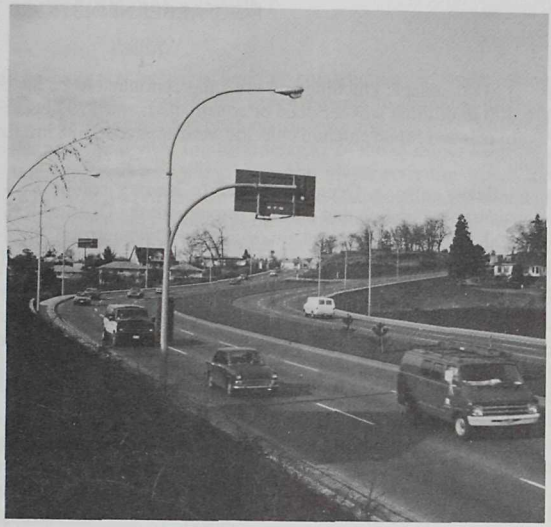
Thetis Bridge on Highland Road (Saanich), 12.2 m pre-cast concrete deck beams.



Thetis Bridge–Highland Road.



6 m × 3 m multi-plate arch replacement for Barker Bridge, Highland Road, Saanich District.



Highway 17, Victoria. Landscape project completed, Cloverdale Avenue to Saanich Road.

Chouinard Bridge, Highlands Road, Saanich District.

PORT ALBERNI DISTRICT

Roads

Maintenance: Ditching and brushing continued to be the dominant maintenance activities, 16,400 m of ditch was serviced or constructed, and 273 hectares of brush was removed. M & F Stabilizer and liquid calcium chloride were applied to 388 km for road base stabilization and dust control.

Heavy rains in Decmber and early January combined with several wind storms caused considerable flooding and damage throughout the District. Rain saturated ground contributed to several large washouts and mudslides in Qualicum on the Island Highway 19; and on the Alberni–Tofino Highway 4 storm damage to the road base and shoulders along Cameron Lake resulted in repairs along a 2.3 km section of shoreline. Nearly 13,000 m^3 of heavy rip-rap rock was placed to prevent further erosion.

Snowfall was moderate throughout the winter, but ice conditions in the mountain passes kept District crews busy. Winter patrols were maintained on a 24-hour basis, and a total of 136 cm of snowfall was recorded in Sutton Pass on the Alberni–Tofino Highway 4.

Construction: Day Labour construction during the year consisted of reconstructing and paving 1.2 km of Beaver Creek Road. Intensive reconstruction and culvert installation on a 4.7 km section of the Alberni–Bamfield road was undertaken. Cameron Lake had 478 m of guardrail installed, and 1,044 m were installed west at Sproat Lake on Alberni–Tofino Highway 4. Passing lanes were constructed for 1.4 km on the Alberni–Tofino Highway 4 near Kerr Creek. In the Village of Tofino, 1.10 km of shoulders were paved. Shaw Hill north of Qualicum was subject to change of alignment, reconstruction, and installation of a new railway crossing to alleviate several difficult curves.

Subdivisions

Subdivision and permit activity increased dramatically again this year, a reflection of the record development experienced in the Qualicum–Parksville–Nanoose areas. A total of 176 subdivisions were processed, and 514 permits issued by regulatory staff. The City of Port Alberni absorbed a 6-block square area adjacent to the City's northern boundary. The maintenance is now a city responsibility.

House adjacent to Island Highway–Qualicum, demolished by slide resulting from heavy rains.

COURTENAY DISTRICT

Roads

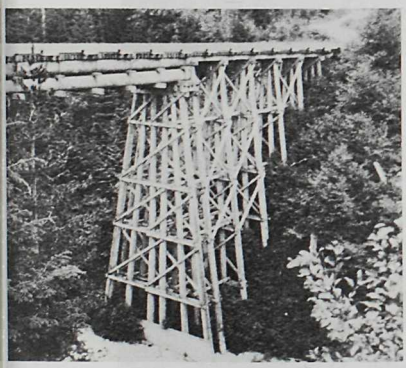
Maintenance: Increased land development by way of building construction and land clearing throughout the District has greatly increased requests for improvements to drainage ditches, easements and culvert installations. The emphasis has been on ditching and machine brushing, and this trend will continue into the new fiscal year. Improvements to 24 km of minor sideroads were completed with ditching, widening and gravelling being the major activities under the betterment program. Sealcoating was carried out in the Courtenay and Quadra areas for a total of 16 km. Flooding during November and December 1980 kept District personnel busy on drainage problems in all Foreman areas. Extreme rains on December 26th caused extensive property damage in the Oyster River area and to a lesser degree in the Courtenay, Sayward, Port Hardy and Gold River areas. The winter was very moderate with very little snow resulting in low traffic volumes to local ski resorts. The Woss yard-site is nearing completion.

Construction: The District widened 17.5 km of the Island Highway 19 from Ocean Grove Road to Black Creek Bridge in preparation for repaving. Recapping of 6 km of existing pavement in Courtenay and Sointula and 12 km of new pavement of which 5.0 km was hotmix asphalt on gravel roads in Courtenay, Hornby and Cortes areas, were completed. Roy Creek at Royston had timber retaining walls replaced with concrete walls. Forbidden Plateau Road was widened to provide a parking lot. Campbell Way in Port McNeill was widened for 0.8 km to provide extra lane width and a sidewalk. Dogwood Road in Campbell River was reconstructed and paved for 0.4 km. Swan Road on Denman Island was reconstructed in preparation for paving. A total of 676 m of 690 mm guardrail was installed in the District.

Bridges

Powerhouse Bridge No. 7312 was replaced with a 28 foot × 60 foot concrete box beam structure. The 60 foot Acrow detour bridge was removed at Port Alice. Bridge crew worked on Oyster River flood damage. Field Sawmills former office and shop buildings were taken down for Courtenay River 2nd crossing right of way. A total of 65 District bridges was worked on this year with emphasis placed on cleaning and painting. One hundred metres of flex beam guardrail were installed on the Kye Bay Hill. Some preparatory work was done at Lamonte Bridge site for a proposed culvert structure.

View of Old Steele Creek Bridge and the new bridge on Island Highway—five miles south of Nimpkish.



Ferries

The Region 6 Ferries District is administered from Courtenay and is responsible for the operation of 12 certified ferries on the following nine routes:

1. *Alert Bay–Sointula–Port McNeill*—The M.V. *Tenaka* crosses Johnstone Strait on a triangular run between Alert Bay on Cormorant Island, Sointula on Malcolm Island and Port McNeill on Vancouver Island.

2. *Quadra Island*—The M.V. *Quadra Queen II* operates across Discovery Passage betewen Quathiaski Cove on Quadra Island and Campbell River on Vancouver Island. In the month of May she was adjoined by her sister ship the M.V. *Tachek* and the operation of the two-ferry system continued for approximately four months. The M.V. *Quadra Queen II* had her main engines replaced during this year's refit.

3. *Cortes Island*—The M.V. *Nimpkish* operates across Sutil Channel between Whaletown on Cortes Island and Heriot Bay on Quadra Island.

4. *Comox–Powell River*—The M.V. *Sechelt Queen* operates between Little River (six miles from the City of Courtenay on Vancouver Island) and Westview Terminal (Powell River) on the Mainland. During the summer months an extra sailing was made on Fridays and Sundays to improve travel. During her annual refit in November she was replaced on the run by the *North Island Princess*.

5. *Texada Island*—The M.V. *North Island Princess* crosses Malaspina Strait between Powell River and Blubber Bay on Texada Island. Extensive alterations to the dock and ramp at Blubber Bay were completed this year. This improvement allows the carriage of all legal vehicle load weights and lengths. During the period of alteration the dock facilities at Blubber Bay were closed to vehicle traffic for a period of 11 days. The M.V. *Nicola* was used to provide a foot passenger service from Powell River to Vananda on Texada Island.

6. *Denman Island*—The M.V. *Kahloke* operates across Baynes Sound, between Buckley Bay and Denman Island—approximately 13 miles south of the City of Courtenay on Vancouver Island.

7. *Hornby Island*—The M.V. *Albert J. Savoie* crosses Lambert Channel from Denman Island to Hornby Island. From May to September she was replaced by the larger M.V. *Klitsa* to accommodate heavy summer traffic volumes.

8. *Gabriola Island*—The M.V. *Quinitsa* operates between the City of Nanaimo on Vancouver Island and Gabriola Island. During the period when the *Quinitsa* was undergoing her annual refit a two-ferry operation was in effect by utilizing the M.V. *Kahloke* and the M.V. *Nicola*.

9. *Thetis Island*—The M.V. *Kulleet* operates across Stuart Channel on a triangular run between Chemainus on Vancouver Island, Preedy Harbour on Thetis Island and Kuper Island.

Relief Vessels

With all certified ferries undergoing annual refits the M.V. *Klitsa* was utilized for relief assignments at the Denman, Hornby and Thetis Island operations; the M.V. *Tachek* at the Alert Bay, Quadra Island and Texada Island operations; and the M.V. *Nicola* at the Cortes and Texada Island operations. The fourth spare vessel, the M.V. *Ethel Hunter* was sold by public tender this year.

REPORT OF DIRECTOR OF CONSTRUCTION

N. R. ZAPF

During the year ended March 31, 1981, the Construction Branch was responsible for administering 55 major projects of which four were carried out by day labour and the remainder by contract.

Of the contracts, 37 continued from the previous year while the remaining 14 were awarded during 1980. The total expenditure on contracts for the 1980/81 fiscal year was $113.8 million.

Work continued in all parts of the Province, with particularly heavy emphasis again on the Revelstoke–Mica section of Highway 23 because approximately 95 km of highway will be flooded by the hydro-electric reservoir. All 14 grading projects on this route were active this year and six are now essentially complete. The remainder, with two exceptions, will complete in fiscal 1981/82.

Table 1 gives a breakdown of contracts by type being carried out during the year:

Table 1

	Two-Lane	Four-Lane	Total
Urban Reconstruction/Relocation	—	6	6
Urban New Route	3	3	6
Rural Reconstruction/Relocation	28*	3	31
Rural New Route	2	2	4
Other	—	—	4
	33	14	51
Grading Only	24*		
Grading and Paving Combined	23		
Other	4		

* Includes 14 contracts on Highway 23, Revelstoke–Mica.

A start was made on the new Annacis Route with the award of a contract to stockpile 1.3 million cubic metres of sand dredged from the Fraser River. This material will be in place in early summer 1981.

Four-lane reconstruction projects were underway in many parts of the Province. Projects which completed in the year included those north of Vernon, on the Lougheed Highway near North Road, at Halston in Kamloops, on the King George Highway in Surrey and on the Langley By-pass. Others that will complete in 1981 include the Mission Bridge North Approach, the Hart Highway north of Prince George, the Island Highway north of Nanaimo, Marine Drive at U.B.C., Highway 3 through the Hope Slide and the Okanagan Highway south of Kelowna.

Work continued on the Coquihalla Route with the essential completion of the first contract near Hope, and with the award of a contract between Boston Bar Creek Summit and Dry Gulch south of Merritt. Work is progressing satisfactorily on this latter project which should be complete in 1981.

Table 2 gives overall project statistics for the year.

Table 2

(a) Distances

Under Construction	375 km
Two-Lane road built	139 km
Four-Lane road built	38 km
Paved	240 lane km

(b) Quantities

Clearing and Grubbing	733 ha
Excavation—Rock	2,259,864 m^3
Excavation—Other Materials	10,310,784 m^3
Select Granular Sub-base	1,778,159 t
Crushed Granular Base and Surfacing	1,357,795 t
Asphaltic Concrete	244,353 t

REVELSTOKE - MICA CONTRACTS (HIGHWAY 23) - 1980/81

Project Number	Date Started	Date Completed	Start (km)*	Length (km)	Percent Complete	Remarks
C-3936	Nov/79	-	7.67	6.82	50	Large rock excavation project. Anticipated completion early 1982.
C-3937	July/79	Aug/80	14.48	6.1	100	Complete.
C-3938	Apr/79	Aug/80	20.57	7.03	100	Complete.
C-3939A	Feb/79	Aug/80	28.60	5.17	100	Complete.
C-3939B	Feb/79	Aug/80	33.20	1.17	100	Complete. Large rock excavation project.
C-3940	Aug/79	Sept/80	35.10	3.98	100	Complete. Incorporated tunnel for Holdich Creek.
C-3941	Oct/79	-	39.20	7.54	70	Completion scheduled for summer 1981.
C-3942	May/79	-	47.30	11.50	95	Completion scheduled for summer 1981.
C-3943	Apr/80	Sept/80	60.30	7.42	60	Completion scheduled for fall 1981. Progress good.
C-3958	Mar/80	-	68.53	8.23	30	Completion scheduled for fall 1981. Progress good.
C-3959	Mar/79	July/80	91.70	3.80	100	Complete.
C-3960	June/80	-	107.20	9.10	50	Completion scheduled for fall 1981.
C-3961	Apr/79	-	118.30	6.9	95	Completion scheduled for fall 1981.
C-3962	Sept/80	-	125.20	6.1	10	Anticipated completion of this project through Mica Creek Village scheduled for early 1982.

* Distance from Junction of Highway 23 and Highway 1.

GRADING CONTRACTS PROGRESS - 1980/81

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-0102	John Hart Highway, Summit Lake By-Pass, Construction: Sta. 635+00 - Sta. 988+00	97	10.61	Aug/80	-	40	
C-0252	Reconstruction of Cheakamus Canyon Section of Garibaldi Highway	99	2.43	Feb/81	-	0	Large rock excavation project near Whistler just awarded.
C-0253	Yellowhead Highway, Reconstruction: Kasiks River - Backwater Creek, Sta. 1939+50 - Sta. 2220+00	16	8.56	Nov/80	-	5	Rock quarrying project on the Skeena River.
C-0598	Fraser River Crossing, Queensborough Bridge, Supply of Dredged Material	-	-	Nov/80	-	30	Sand dredging contract for Annacis project.
C-2317	South Fork - Salmo, Southern Trans-Provincial Highway	3	15.26	Oct/78	Sept/80	100	Reconstruction south of Salmo.
C-2792	Reconstruction: Hart Highway, Nechako River Bridge - Chief Lake Road	97	10.26	Sept/80	-	15	Four-laning reconstruction north of Prince George.
C-2845	Contract #2, Halston Overhead at Kamloops; Storm Drainage, Curb and Gutter, Sidewalks, Paving and Retaining Walls	-	1.0	Sept/79	July/80	100	Curb and gutter and four-laning at Halston Overpass.
C-2901	Island Highway, Lantzville - Craig's Crossing	19	14.24	Jan/80	-	50	Four-laning reconstruction north of Nanaimo.
C-3143	John Hart Highway, McLeod Lake Hotel - Crooked River Cabins	97	20.61	Nov/78	Sept/80	100	Reconstruction of Hart Highway.
C-3402	Lougheed Highway, North Road - Cape Horn	7	6.4	Jan/79	Dec/80	100	Four-laning reconstruction.
C-3422	Okanagan Highway, Reconstruction: Vernon- Swan Lake Junction	97	6.91	Feb/79	Dec/80	100	Four-laning reconstruction.
C-3487	Reconstruction: Yellowhead Highway, C.N.R. Tunnel, Kwinitsa - Igneous Creek	16	8.06	Oct/78	Sept/80	100	Rock quarrying and fill construction on Skeena River.
C-3718	Vancouver Island Highway, Port Hardy Airport - Port Hardy	19	9.22	Oct/78	June/80	100	Two-lane reconstruction, including paving.

INVENTORY OF MINISTRY OF TRANSPORTATION & HIGHWAYS
EQUIPMENT FLEET

As of March 31, 1981

	CLASS	DESCRIPTION	ACTIVE UNITS (INC. B.C. FERRIES)
A.	1100	Cars	255
B.	1200	Plows	1832
C.	15XX	Compressors	116
D.	1611 to 1615	Fork Lifts	74
	1621 to 1625	Cranes	5
	1630	Bridge Inspection Units	1
	2100	Excavators	35
E.	18XX	Light Plants	78
F.	001X	Truck Cranes	179
	0020	Personnel Lifts	34
	0030	Wreckers	10
	0033	Electrical Signs	78
	0070	Garbage Packer	39
G.	2010	Self Propelled Brooms	39
	2020	Towed Brooms	26
H.	94XX	Transportation Light Trucks	1701
J.	25XX	Asphalt and Paving Equipment	155
K.	28XX	Crushing and Screening Equipment	90
L.	30XX	Graders	330
	3100	Towed Graders	9
M.	3510	Sanders	1110
N.	40XX	Rubber Tired Tractors	199
O.	0001	Hydroseeder	7
	0002	Centreline Marker	11
	0003	Tunnel Washer	1
	0004	Snow Blower (truck)	1
	3550	Snow Blower (quick slip on)	32
	0040	Water Tank	156
	0080	Auger Drill	20
	0081	Diamond Drill	8
	1651 & 1652	Pile Drivers	3
	5600	Self Propelled Horizontal Drill	1
	5700	All Terrain Vehicle	2
	5800	Air Track Drill	4

GRADING CONTRACTS PROGRESS - 1980/81 (continued)

Project Number	Location and Description	Hwy. No.	Length (km)	Date Started	Date Completed	Percent Complete	Remarks
C-4370	Contract #1, Lillooet Access Road, Reconstruction of Station Hill Road including Construction of Metal Bin Retaining Walls and Protection of Railway Wye	12	4.26	Sept/80	-	70	Project completion anticipated for summer 1981.
C-4406	Langley By-Pass, Construction from Highway 10 near Glover Road - Fraser Highway at 209th Street	-	2.99	Oct/79	Sept/80	100	Four-lane by-pass at Langley.
C-4477	Reconstruction: Nicolum Creek - West Boundary of Manning Park Section of Southern Trans-Provincial Highway	3	13.95	Jan/80	-	60	Four-lane reconstruction near Hope Slide.
C-4478	Construction: Coquihalla Highway, Boston Bar Creek Summit - Dry Gulch	-	4.5	June/80	-	20	Large earth moving and rock project progressing well.
C-4483	Construction: Prince Rupert - Ridley Island, Sta. 43+20.00 - Sta. 110+49.447	-	6.72	Sept/80	-	30	Rock and muskeg excavation project at Prince Rupert.
C-4484A	Fort Nelson - Fort Simpson Highway, Structural Steel Plate Pipe Installations	-	-	Aug/80	-	30	Installation of large structures on new Liard Highway.
C-4485	Reconstruction: Okanagan Highway, Westbank - Kelowna, Section 2	97	4.0	Feb/80	-	95	Four-laning project will complete in May 1981.
C-4500	Contract #1, Construction of Pine River Bridge Approaches at Twidwell Bend, Northeast Development Road, Junction Highway 97 - Martin Creek	-	0.65	Jan/80	Sept/80	100	River training and bridge approaches built on time.
C-4501	Clearing and Grubbing, Sta. 50+42 - Sta. 110+19, Prince Rupert - Ridley Island Access Road	-	5.98	Jan/80	Sept/80	100	Clearing and grubbing contract on Ridley Island Access.
C-4513	Contract #1, Northeast Development Road, Junction Highway 97 - Martin Creek	-	22.88	Jan/81	-	0	Contract just awarded.
C-4527	17th Street Crossing, Courtenay, Cliffe Avenue - Dingwall Road	19	6.5	Oct/80	-	30	Satisfactory progress on this Courtenay By-Pass Route.

REPORT OF THE DIRECTOR OF PAVING

D. F. MARTIN

During the 1980/81 fiscal year, the Paving Branch administered work on 37 contracts. Of these contracts, 32 were called prior to the 1980/81 fiscal year, and 5 were called during the year. Work on 29 contracts was completed with progress past the midpoint on the remaining 8. In addition, 11 contracts were called during the winter and early spring, scheduled for physical startup in the 1981 paving season.

A total of 779.8 km of road was surfaced with asphalt concrete pavement under contract this year (876.7 km of 2-lane equivalent).

Paving Branch operations crews paved 127.5 km of road with plant mixed asphalt concrete. 458.3 km were treated with granular surface treatments, with 29.5 km chip-sealcoated by Branch crews. 114.4 km of granular shoulders were asphalt surface treated. In addition 31.5 km were chip-sealcoated under contract, administered by the Branch.

Work was completed on six projects involving curb and gutter construction, with nearly 13 km of Portland Cement curb and gutter constructed this year.

Paving work continued on Highway 37, with 130.6 km of pavement placed this year. (62 km is bottom lift, with top lift to be completed next year).

Major upgrading of Highway 99 is being carried out, with the construction of an additional traffic lane in both north and southbound directions from the George Massey Tunnel to Westminster Highway and the addition of a southbound lane reserved for public transit from Westminster Highway to Steveston Highway.

A total of 14.2 km of paving was also completed on Highway 99 from the Nicomekl River to Mathews Road Interchange.

This year the Branch experimented with different types of mixes, using chemical additives and sulphur, as well as synthetic reinforcing fabrics in an effort to reduce the quantity of petroleum products used in road surfacing work. The cost of paving asphalt is rapidly increasing, from $44 per tonne in 1974 to $191 per tonne in 1981, with indications of similar or greater increases in future. Thus researching the use of chemical additives to reduce asphalt requirements, or additives and/or reinforcing media to extend service life, is of great importance. For this purpose, various test sections were established and constructed under contract, and their performance will be closely monitored to determine their effectiveness.

Testing was performed in two areas with "Chem-crete" additive designed to improve pavement performance, in the Keremeos and Fort St. John areas. Preliminary evaluation on the Keremeos section (where an AC-8 asphalt cement was used) and the Fort St. John section (where an AC-5 Type A asphalt cement was used) appears to indicate that the "chem-crete" treated asphalt cement has not lived up to its expected performance. Also, in Fort St. John area, 12,301 t of pavement were placed using a sulphur-asphalt binder, while 4,898 m^2 of pavement reinforcing fabric were placed in the Prince George area in an attempt to control the reflection of transverse cracking through successive pavement courses.

All test areas will be monitored to determine the relative effectiveness of the various products under investigation.

In addition to the supervision of paving contracts, technical supervision was provided for the paving portion of a number of construction projects, as well as technical information and assistance to other branches.

MATERIALS USED UNDER CONTRACT

1980 - 81 FISCAL YEAR

Description	Unit	Quantity
Common Excavation	m^3	36,470
Foundation and Trench Excavation	m^3	17,140
Select Granular Base	t	130,825
Crushed Granular Base	t	25,219
Crushed Granular Surfacing	t	852,509
Crushed Shoulder Aggregate	t	345,574
Crushed Aggregate in Stockpile	t	77,788
Sealcoat Aggregate in Stockpile	t	20,325
Asphalt Concrete Pavement	t	1,506,650
Asphalt Concrete Mix F.O.B.Plant	t	17,227
Asphalt Curb	m	49,924
Portland Cement Curb & Gutter	m	12,830
Portland Cement Curb	m	9,250
Concrete Pipe Installed	m	2,442
Corrugated Metal Pipe Installed	m	5,151
Asphalt Cement	t	85,757
Cutback Asphalt	L	4,716,651
Emulsified Asphalt	L	360,943
Milling	m^2	177,556
Concrete Sidewalk	m^3	26,952
Sulpher (Liquid)	t	339
Sulpher Asphalt Pavement	t	12,301
Pavement Reinforcing Fabric	m^2	4,898
Asphalt Stabilized Base	t	15,840

MATERIALS USED BY PAVING BRANCH OPERATIONS CREWS

escription	Unit	Quantity
sphalt Pavement	t	134,671
rushed Surfacing Aggregate	t	96,430
ealcoat Aggregate	t	5,152
utback Asphalt	L	7,999,561
mulsified Asphalt	L	1,232,157
igh Float Asphalt	L	7,447,869
ealcoat Aggregate (By Contract)	t	5,294
mulsified Asphalt (By Contract)	L	557,022
rushed Aggregate (By Contract)	t	3,572
igh Float Asphalt (By Contract)	L	210,816

PAVING CONTRACTS - Continued from 1979 - 80 Fiscal Year

roject umber	Location	Total Length km	Length Completed this Fiscal Year		Remarks
			Actual Length	2-Lane Equivalent	
-1118	Hwy #1 - Fern St. to 2nd Narrows	1.00	1.00	2.00	Complete
-1448	Ladner Curb and Gutter	1.70	1.70	3.40	Complete
-1458	Langley Curb and Gutter	1.60	1.60	3.20	Complete
-2938	Glenmore St., Kelowna	2.00	0.80	1.60	Continuing
-6218	Brentwood Curb and Gutter	0.92	0.42	0.80	Complete
-791201	Sechelt - Miscellaneous Roads	37.48	37.48	37.48	Complete
-791401	Hwy. #99 - Nicomekl River-Matthews Int.	14.20	14.20	28.40	Complete
-791601	Hwy #1 - Yale - Alexandra	26.75	26.75	31.75	Complete
-792201	Hwy #1 - Sorrento	22.30	22.30	27.90	Complete
-792301	Hwy #6 - Mine Hill - Inonoaklin	31.80	15.90	17.00	Continuing
-792402	Hwy #3 - Sterling Creek - Keremeos	24.70	24.70	37.00	Complete
-792701	Canim Lake Road	52.40	60.26	60.26	Complete
-793101	Hwy #38 & #6 Salmo-Creston-Nelway	31.90	31.90	36.00	Complete
-793601	Hwy #93 Elko - Rooseville	41.00	41.00	41.00	Complete

PAVING CONTRACTS - Continued from 1979 - 80 Fiscal Year(continuing).....

Project Number	Location	Total Length km	Length Completed this Fiscal Year		Remarks
			Actual Length	2-Lane Equivalent	
S-793901	Hwy #38 & #21 Creston-Blazed Cr.- Porthill	42.40	42.40	43.55	Complete
S-794101	Prince George - Misc. Rds West of Fraser River	29.30	29.30	33.70	Complete
S-794102	Prince George - Misc. Rds. East of Fraser River	44.20	44.20	45.20	Complete
S-794301	Hwy. #97 East Pine - Groundbirch - Fellers Heights	40.20	41.00	46.70	Complete
S-794601	Hwy. #16W - Twin River - Lamming Mill	21.50	21.50	21.75	Complete
S-794706	Hwy #97 - Williams Lake - "Y" inter-section and Northerly	29.30	29.30	39.30	Complete
S-795101	Hwy.#37 - Stewart - Surprise Creek	54.60	54.60	55.00	Complete
S-795102	Hwy.#37 - Nass Ri. - Derrick Creek	62.00	31.00	31.00	Continuing
S-795201	Hwy.#16 - Kyex Ri. - Backwater Creek	26.40	13.20	13.20	Continuing
S-795501	Francois Lake Area - Misc. Roads	38.60	23.00	24.00	Continuing
S-796101	Hwy.#18 - Lake Cowichan - Youbou	10.60	10.60	10.60	Conplete
S-796201	Hwy.#1 - Mill Bay - Duncan & Misc.Rds.	22.30	22.30	26.00	Complete
S-5418	Hwy.#37 - Kitwanga - Kitwancool	28.00	14.00	15.00	Complete
S-5518	Burns Lake Curb and Gutter	8.00	4.80	6.80	Complete
S-4628	Hwy.#5 - Crushing	-	-	-	Complete
S-6428	Hwy.#28 - Buttle Narrow - Camp 8	30.50	10.00	10.00	Complete
S-794401	Fort St. John - Misc. Roads	77.80	62.80	62.80	Complete
S-793402	Stockpiled Aggregates - Region 3	-	-	-	Complete

PAVING CONTRACTS - called during 1980 - 81 Fiscal Year

Project Number	Location	Total Project Length (km)	Length Completed This Fiscal Year		Remarks
			Actual Length	2-Lane Equivalent	
0033	Prince Rupert - 2nd Ave.	1.2	1.2	2.40	complete
0034	Hwy.#23 Downie Cr. - Bigmouth Cr.	28.50	-	-	Start 1981
0035	Hwy.#99 and Sea Island Way	11.29	5.65	20.00	continuing
0240	Hwy.97 Kathleen Cr.-Silver Sands Cr.	20.90	20.90	20.90	Complete
0278	Hwy.#97 Two Mile Flat	7.00	3.00	6.00	continuing
0414	Misc. Roads - Fraser Lake Area	18.60	15.00	15.00	continuing
0639	Hwy.#19 Ocean Grove - Black Creek	16.60	-	-	Start 1981
0640	Hwy.#16 and Misc.Rds. - Hazelton Area	44.90	-	-	Start 1981
0641	Port Alice to Hwy.#19 Junction	16.70	-	-	Start 1981
0642	Hwy.#16 - Moose River to Fraser River	48.70	-	-	Start 1981
0644	Miscellaneous Roads - Horsefly-Likely	62.70	-	-	Start 1981
0645	Hwy.#97 Pinaus Lake - Hanna Road	27.00	-	-	Start 1981
0646	Hwy.#3 Paulson Bridge - Kinnaird O.P.	48.40	-	-	Start 1981
0648	Hwy.#99 & Pemberton-Whistler area Rds.	35.55	-	-	Start 1981
0744	Hwy.#18 - from Hwy#1 - Meade Creek	30.90	-	-	Start 1981
0763	Vanderhoof - Curb & Gutter & Misc.Rds.	47.70	-	-	Start 1981

PAVING BY PAVING BRANCH OPERATIONS CREWS

SEAL COAT AND SHOULDER TREATMENTS

Project No.	Job No.	Location	km Road	km Shoulder
S-0084	2403	Penticton, Oliver, Osoyoos - misc. Rds.	95.10	-
	3302	Grand Forks - Paulson Bridge	-	13.0
	3303	Grand Forks - Christina Lake	19.90	-
	3304	Grand Forks - Christina Lake misc. Rds.	5.30	-
	3305a	Grand Forks - Misc.	11.90	-
	3305b	Grand Forks, Spencer Hill	8.50	-
	3306	Grand Forks, Jewel Lk. Rd. & misc. Rds.	19.70	-
	3307	Grand Forks, Paulson Bridge	18.60	-
	4502	Endako - Vanderhoof	14.80	-
	4601	McBride - Valmont South - Hwy.#5	27.40	-
	4602	McBride - misc. Roads	35.10	-
	4603	McBride - Hwy#16 eastwards	-	27.60
	5302	Dease Lake - Pinetree Lk. Hwy.#37	28.40	-
	2501	Merritt - Aspen Grove	22.30	-
	2602	Lillooet - Misc. Roads	70.20	-
	2603	Loon Lake Road	21.80	-
	2704	Bonapart River - Clinton, Hwy.#97	incomplete	incomplete
	3201	Rossland - Nancy Greene Summit	29.50	29.50
	3701	Giant Mine Rd, Spillimacheen, McMurdo	-	26.20
	3703	Windermere - Toby Creek, Athalmer	29.80	-
	3704	Windermere - Radium Golf Course	-	18.10
	3501	Kimberly - Wasa Jct.	-	30.00
	2301	Vernon - Deep Creek Road	incomplete	-
		Total	458.30	114.40

Seal Coat Work Under Contract

S-6101		Duncan - Hwy.#18 - Meade Creek	31.50	31.50

PAVING BY PAVING BRANCH OPERATIONS CREWS

PLANT MIXED PAVEMENT

ject	Job No.	Location	Length (km)
85	3301	Grand Forks, North Fork Road	14.40
	3705	Invermere - Toby Creek Road	14.72
	2701	Watch Lake Road - Cariboo	13.19
	2702	Green Lake Road - Cariboo	16.64
	2703	Lac La Hache - 100 Mile House	11.50
	2601	Crown Lake Road - Lillooet	35.00
	2401	Copper Mtn. Road - Princeton	22.10
		Total	127.55

REPORT OF LANDS SURVEYS OFFICER

F. A. CLAPP

During the fiscal year 187 survey projects were carried out under the Legal Survey Vote, as well as under Construction Branch and Paving Branch Votes. The surveys defined 385 kilometres of highway right of way. Surveys were also carried out to establish drainage easements to define ferry foreshore lots, to prepare subdivision plans of yardsites and gravel pits, to re-establish survey monuments, to reference monuments prior to construction and to establish additional right of way through surplus lands prior to transferring it to the Ministry of Lands, Parks and Housing for disposal. A total of 170 plans was forwarded to the Land Title Offices for registration.

Expenditures for the year were:

Legal Survey Vote	$482,984.38
Construction Project Votes	237,720.34
Paving Project Votes	52,637.53
Total	$773,342.25

REPORT OF THE DIRECTOR OF HIGHWAYS DESIGN AND SURVEYS

E. E. READSHAW

Program

Highway designs and surveys worked on during the fiscal year April 1980 to March 1981 are listed in this report. There are 247 projects representing 1,686 km of two and four lane highways.

Design Activities

Of the designs completed 12 separate projects representing 126.96 km were awarded to contract and 56 projects for construction by the Ministry's own forces; a total of 297 km. In addition 11 projects were readied for contract but not submitted. These represent an additional 55.4 km of highway designed.

This year has seen the start of the Annacis Crossing, a new crossing of the Fraser River at Annacis Island together with the associated roadworks connecting Highway 99 in the south to the Westminster Highway on Lulu Island and the Queensborough Bridge in New Westminster. So far only the preliminary studies have been carried out with mapping and aerial photography obtained. Considerable work remains to be done in finalizing the alignments.

Road designs for a 2-lane highway in the Northeast Coal area are also proceeding between Chetwynd and the proposed townsite at Tumbler Ridge, a total of 90 km. It is planned to complete designs in 1981 and construction by 1984. No special problems have been encountered so far except for those usual in remote areas where access is difficult. Both survey and design work is being carried out by consultants to the Ministry.

Some reconnaissance work was done to investigate possible alternative routes from Vancouver to the Whistler Mountain area. Several were looked at on maps and photographs and a helicopter inspection of the Seymour Creek route was made. This route would run from the Fern Street Interchange on the Upper Levels Highway past Capilano College, along Seymour Creek past the dam on Seymour Lake and over the Loch Lomond Summit, along the Stawamus River joining the existing Highway 99 near the river at Squamish. The problems of construction of such a route are extremely great. Grades would exceed 8 per cent on both sides of the summit; a switchback and tunnel south of Loch Lomond would be required and these, together with numerous avalanche areas along the Stawamus River Valley, make it one of the most rugged areas in the Province. Alternative new routes exhibit similar problems but further investigation will be required.

On the Trans-Canada Highway, the section between Golden and the Yoho Bridge through the valley of the Kicking Horse River is under active investigation for upgrading to 4-lanes. This is another very difficult section. The existing highway carries in excess of 8,000 vehicles per day in the summer on 2-lane alignment capable of only 50 km/h speeds at best. Here again the terrain is the major obstacle. The walls of the valley are steep and the soils derived from the soft rock of the valley sides present formidable construction problems. It appears that it will be necessary to construct considerable length of viaduct to achieve the necessary width of roadbed for 4-lanes on an alignment suitable for speeds of 80 km/h. The alternative is the careful construction of embankments up to 60 m high together with retaining walls to avoid encroachment into the Kicking Horse River, a wild stream with tremendous erosion capabilities. Tunnelling through the walls of the valley to achieve the necessary alignment may also be a possibility but the poor rock stability may present considerable problems.

Several projects on Highway 7 are under active design, the Mary Hill Bypass being perhaps the most difficult. At the Mary Hill Bluff itself where the road skirts the Pitt River at its junction with the Fraser River it is planned to carry the new 4-lane roadway on two tiers of 10 m high reinforced earth retaining walls. This technique is in increasing use in highway construction throughout the world but is fairly new in British Columbia. It consists of a wall of precast concrete

panels supported by a series of steel strips embedded in the soil behind the wall. Four strips are connected to the back of each panel about 0.5 m apart. The length of each strip is approximately three-quarters of the height of the wall. The soil behind the wall is placed and compacted in layers over the strips which are laid out over the previously placed soil. Such a wall is cheaper than most other types of wall over 7 m high.

Other projects on Highway 7 between Mission and Haney are also being designed. Access to property and some clay soil instability are the biggest problems to overcome.

The following table gives a listing of the projects being designed and shows the three principle stages of investigation. Preliminary studies, being work carried out to determine the most acceptable and feasible alignment; survey, which consists of field work to obtain engineering detail, and; design, in which final detailed plans are prepared for construction.

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
HIGHWAY NO. 1					
Sardis Interchange	1.60	--	100	5	
Gibsons Road Interchange	0.32	100	100	30	
Annis Road Intersection	0.32	50	100	--	
Cassiar Street Upgrading	2.00	60	99	--	
Wahleach Power Stn. - Jones Creek	9.66	--	100	50	
Floods to Hope Rly. Reloc.	9.82	--	100	99	
Also Clearing & Grubbing	--	--	98	99	
Hope Bridge Approaches	0.20	--	35	--	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
Clearbrook Interchange	1.60	--	100	100	
Capilano - Lynn Valley	6.90	100	85	45	
Dogwood Valley at Yale	0.50	--	100	100	
Oregon Jack I.R. No. 5	20.00	--	100	100	
North Ashcroft Junction	4.00	--	100	100	
CPR Grade Separation at Savona	0.20	--	100	40	
Savona Hill to Cherry Creek	3.20	--	100	--	
Cherry Creek to Cornwall Lodge	4.82	--	25	5	
Kamloops East Interchange	0.10	100	100	--	
Junction of Hwys. 1 & 5 Kamloops	0.32	100	100	99	
Cedar Heights & Shuswap Estates	1.60	--	95	80	
Cache Creek Curb & Gutter	1.70	--	95	--	
Cache Creek - D.L. 8	13.00	--	100	--	
Shuswap Ave. - 40th St. NE 4-Lane in Salmon Arm	3.20	--	30	10	
Craigellachie - Lybarger	1.20	--	95	90	
Malakwa West Entrance	1.20	--	95	50	
Revelstoke West Entrance	0.20	--	90	90	
Three Valley Gap	1.60	100	100	--	
Golden Yoho Bridge	11.00	50	75	--	
East of Yoho Bridge	4.00	--	60	--	
Mill Bay to Duncan	15.00	--	45	--	
Ladysmith - Carmichael Road	5.43	--	100	99	
Westdowne Road, Ladysmith	5.43	--	100	87	
Phipps Road - Bench Road	1.00	--	90	10	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
HIGHWAY NO. 3					
Nicolum Creek Bridge Site	1.00	--	80	75	
Hope to Nicolum Creek	4.50	100	100	12	
D.L. 980 to Princeton	5.63	--	100	--	
Stirling Creek to Hedley	8.05	--	100	95	
I.R.#9 to D.L.656 Hedley-Keremeos	4.82	--	97	95	
D.L. 1970 to D.L. 2532 Hedley - Keremeos	3.20	--	99	--	
D.L. 2286 to D.L. 1970 Hedley - Keremeos	3.20	--	80	--	
Keremeos East Approaches	1.60	--	100	--	
Midway Rail Crossing	1.00	50	60	--	
Alice Siding - Arrow Creek - Creston Bypass	10.62	100	100	90	
Castlegar Interchange	1.00	75	100	5	
Rock Creek Intersection	1.00	--	100	40	
Salmo Creston Summit Revision	6.44	--	100	90	
Upper Moyie Lake Section	6.00	--	70	--	
Hwy. 3 & 95A Inter. - Cranbrook	2.00	--	100	--	
CPR Hill Wardner Area	1.00	--	90	--	
Mitchel Bridge Relocation	3.00	100	100	--	
Hedley to Keremeos	12.55	--	99	20	
HIGHWAY NO. 3A					
Keremeos to Kaleden	3.20	50	--	--	
Twin Lakes to Yellow Lake	0.80	--	100	--	
Boulder Cr. Br. Approach, Creston	1.60	--	100	95	
Crawford Creek Bridge Approach	1.60	--	100	50	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
HIGHWAY NO. 3B					
Trail - Glenmerry	3.22	--	95	12	
HIGHWAY NO. 4					
Whiskey Creek - Lockwood Creek	4.99	--	99	--	
Lockwood Creek - Cameron River	10.14	--	99	77	
Cameron River to Alberni Jctn.	9.66	--	99	--	
Johnson Road Curb & Gutter	1.00	--	100	20	
HIGHWAY NO. 5					
Paul Creek - Heffley Creek	19.31	--	100	65	
Preachers Hill to D.L. 810	3.22	--	100	10	
Clearwater River Bridge	0.64	--	100	60	
HIGHWAY NO. 6					
Aberdeen Road - Ricardo Road East of Vernon	3.70	--	90	10	
Cory Creek - D.L. 1474	6.44	--	100	55	
Monashee - Needles	12.00	--	100	10	
Needles - Bench Creek	16.00	--	50	--	
HIGHWAY NO. 7					
Port Moody Grid Roads	8.04	30	30	--	
North Approach to Mission Bridge Sections 1 & 2	0.32	100	100	75	
Haney to Silverdale	18.51	100	100	97	
Silverdale Creek - Hurd Road	7.40	100	55	20	
Mary Hill Bypass, Section 2	8.05	100	75	75	
Marshall - Delaire	0.81	--	100	100	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
HIGHWAY NO. 7A					
Barnet Highway, Sperling Avenue to Clarke Road	9.66	--	68	30	
HIGHWAY NO. 8					
Spences Br. - Merritt Br. Sites	1.00	--	55	--	
HIGHWAY NO. 12					
D.L. 3629 to Sallus Creek	4.82	--	100	75	
Fraser River Crossing at Lillooet	4.80	100	100	100	
Lillooet - Station Rd. O/P B.C.R.	0.70	50	50	--	
HIGHWAY NO. 14					
Kirby Creek Bridge & Approaches	0.80	--	100	96	
Jordan River - Port Renfrew	11.27	100	100	25	
Jordan River Bridge Approach	0.80	--	100	--	
HIGHWAY NO. 16					
Kasiks River - Backwater Creek	8.56	--	100	100	x
Shames - Kasiks River	20.92	--	60	25	
Knyex River to Tyee	11.27	--	95	30	
Carnaby Crossing to Kitsequela	17.70	--	100	25	
Smithers Arterial	1.60	--	100	85	
Burns Lake Bypass, Section 1	5.00	--	80	--	
Terrace Curb & Gutter	1.14	--	100	100	
Smithers - Telkwa Grid Road	5.15	--	30	--	
Prince George Airport Hill	1.60	20	20	20	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
HIGHWAY NO. 17					
Beacon Avenue Interchange	1.00	50	--	--	
HIGHWAY NO. 19					
Nanaimo Bypass Feasibility & Environmental Study	22.53	90	--	--	
Hammond Bay Road - Superior Road	5.00	--	90	10	
Hwy. No. 4 to Dashwood Parksville - Qualicum Bypass	16.01	60	60	--	
Parksville Curb & Gutter	0.80	--	98	81	
Pym Road - Intersection	0.80	--	5	--	
Courtenay Curb & Gutter	1.60	--	100	100	
Mud Bay to Menzies Bay	88.00	100	--	--	
Rockland Ave. - Willow Pt. Area	0.40	--	100	90	
Duncan Bay - Menzies Bay	8.00	--	100	15	
Bowen Rd. - Rock City Rd. Inter.	1.00	--	100	20	
Cluxewe River Site Plan	1.50	--	100	--	
Lamonte Creek Site Plan	0.50	--	100	70	
Port Hardy Curb & Gutter	0.50	--	100	30	
Willow Point Curb & Gutter	1.20	--	90	--	
17th Street Crossing in Courtenay	3.70	100	100	100	x
HIGHWAY NO. 20					
Bella-Coola - Hagensburg Bridge Site Plans	2.00	--	40	--	
HIGHWAY NO. 22					
Rossland Avenue - Stoney Creek	1.60	100	100	85	
Castslegar Curb & Gutter	3.20	--	--	--	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
HIGHWAY NO. 23					
Revelstoke - LaForme Creek (8.0 km to 27.5 km)	19.50	--	100	99	
Revelstoke - Mica (107.2 km to 116.3 km)	9.10	--	100	100	x
Revelstoke - Mica (125.5 km to 132.6 km)	6.10	--	100	100	x
HIGHWAY NO. 24					
Little Fort - Phinetta Lake	16.09	--	100	55	
HIGHWAY NO. 28					
Buttle Narrows Site Plan	1.10	--	100	25	
HIGHWAY NO. 31					
Trout Lake - Gerrard	32.19	--	80	--	
Davis Creek Bridge At Lardeau	1.00	--	100	10	
HIGHWAY NO. 33					
Highway No. 97 to McKenzie Road	3.50	--	20	10	
Westbridge Relocation	4.00	--	25	--	
HIGHWAY NO. 37					
Nash River Bridge to Greenville (Aiyansh to Greenville)	8.00	--	60	--	
Cranberry River - Dereck Creek (Kitwanga to Nass River)	17.70	--	100	60	
Blue River to Bdy. Yukon Terr.	30.00	--	100	90	
HIGHWAY NO. 49					
Dawson Creek Curb & Gutter	1.93	--	100	--	

ame of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
IGHWAY NO. 93					
adium Jnct. to Park Gate	2.00	--	100	--	
IGHWAY NO. 97					
echako River - Chief Lake Road	10.32	100	100	100	x
ummit Lake Drive	10.67	--	100	100	x
orland Creek - 150 Mile House	0.80	--	80	--	
orth Star Interchange, Quesnel	1.60	100	100	90	
outh Peace River Hill	7.00	--	80	--	
ear Lake to Red Rocky Creek	14.00	--	100	30	
ed Rocky Creek to 42 Mile Creek	19.63	--	100	5	
.L. 8917 to Garbitt Tunnel	13.56	--	100	90	
etwynd Underpass B.C.R.	1.20	100	90	50	
.ne Pass - West Pine River Bridge	20.92	100	96	5	
ist Pine Truck Lanes	11.26	--	100	80	
ist Pine West Approach	4.02	100	100	10	
irt St. John Storm Drainage	1.60	--	95	5	
che Creek to Loon Lake Road	20.00	--	100	--	
idge Relocation McAlpine Bridge rth of Oliver	10.10	--	95	5	
leden Junction	1.00	--	50	--	
nticton Channel Parkway	3.20	--	100	98	
nticton - Trout Creek	8.00	100	100	63	
out Creek - Summerland	8.00	75	67	--	
stbank - Kelowna I.R. No. 9 East Boundary Road	3.68	100	100	92	
R. No. 10 Westside Rd. - mpbell Road	3.68	--	100	100	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
Westbank Curb & Gutter	3.52	--	100	20	
Harvey Avenue, Kelowna	1.60	100	50	25	
Winfield Curb & Gutter	10.00	--	40	5	
Oyama - Bailey Road	9.00	--	--	30	
Bailey Road - Vernon	17.70	--	95	60	
Vernon 32nd Ave. to Reservoir Road	2.10	--	20	--	
Oyama Road Intersection	0.34	--	100	70	
Monte Creek to Barnhartvale Road	8.04	--	100	85	
HIGHWAY NO. 97A					
Swan Lake to Crozier Road	7.50	--	90	40	
HIGHWAY NO. 99					
Stanley Park Causeway	2.41	--	90	60	
Brohm Lake to Cheakamus Canyon	16.09	--	100	80	
West Lake to Mons	8.00	--	10	--	
Britannia Beach R/W Survey	1.20	--	80	--	
River of Golden Dreams Site Plan	0.80	--	100	90	
Mathews Interchange	0.80	100	100	--	
HIGHWAY NO. 99A					
Intersection Hwy. 10 & King George	0.80	--	100	98	
Kingsway (Edmonds to 10th)	1.13	--	92	8	
Stormont Interchange - McBride	3.22	--	100	5	
HIGHWAY NO. 101					
Secret Cove - Madeira Park	9.65	--	98	50	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
Sechelt Bypass Airport - Trout Lake	23.33	--	75	--	
Langdale - Gibsons	6.43	--	25	--	
MISCELLANEOUS HIGHWAYS					
16th Avenue U.B.C. Landscaping	4.60	--	95	98	
Chancellor Blvd. Curb & Gutter (U.B.C.)	1.50	--	98	95	
Queensborough Bridge North Approach	2.74	50	99	--	
Marine Way Byrne to Queensborough	2.74	100	96	60	
Bridge Road - River Road	3.22	--	100	7	
Annacis Island Crossing	13.62	100	80	--	
Scott Road Hwy. No. 10 to 80th Ave.	4.18	--	100	99	
Scott Road Hwy. No. 99 to Old Yale Road	2.41	--	--	60	
Scott Rd. Old Yale Rd. to 96th Ave.	4.51	--	50	--	
Westminster Highway Knight to Queensborough	11.50	50	100	--	
Lower Level McKay Bridge Site	0.50	--	100	50	
Fern Street to Mt. Seymour	--	100	98	7	
Horseshoe Bay Toll Booth	--	--	100	100	
Lillooet River Crossing at Pemberton	0.80	--	100	75	
Coquihalla Route					
Peers Creek to 10 Mile Creek	5.15	100	100	87	
Boston Bar Summit - Dry Gulch	4.50	100	100	100	x
10 Mile Creek to Sowaqua Creek	3.70	100	100	100	
Sowaqua Creek to Dewdney Creek	3.54	100	90	86	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
Dry Gulch to 651 Creek	10.20	100	90	72	
651 Creek to Brodie	21.00	90	100	--	
Brodie to Kingsvale	11.00	90	20	--	
Kingsvale to Merritt	28.00	50	90	--	
Osoyoos - 87th Street	3.21	--	30	--	
Westside to Nahun	11.27	100	100	100	
Westside Road	3.10	--	100	100	
Enderby to Mable Lake Road	4.99	--	100	90	
Kamloops to Summit Drive	5.00	--	--	97	
Station Hill Road, Lillooet	0.80	100	100	100	x
Williams Lake - Toop Road	1.50	--	100	100	x
Similkameen River Bridge - Keremeos	0.50	--	95	--	
Ashcroft Curb & Gutter	0.50	--	100	60	
Glenmore Street Extension	4.98	--	--	100	
Logan Lake Intersection, Kamloops	--	--	100	--	
Highland Valley Road, Ashcroft	8.00	--	25	--	
Elk Valley Road Sparwood to Cummings Creek	4.00	100	100	75	
Esling Creek North of Trail	3.22	--	55	--	
Nelson Waterfront Road	1.60	--	100	15	
Pass Creek Road	1.00	--	100	--	
Syringa Creek - Deer Park	10.00	--	100	--	
Burma Road - In Fernie	5.00	--	95	--	
Corbin Road Hwy. 3 to McGillivary	4.83	--	100	100	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
Slocan Valley Bridges					
Slocan Park Bridge	0.32	--	100	15	
Vallican Bridge	1.00	--	100	90	
Passmore Bridge	1.00	--	100	--	
Wildhorse Creek Revision	0.80	--	100	95	
Athalmer - Jctn. of Hwys. 93 & 95	2.00	--	100	10	
Lower Toby Creek Road, Invermere	4.70	--	35	--	
Cranbrook - Kimberley Airport Acc.	12.00	--	50	--	
Trail Creek Culvert in Warfield	--	--	100	50	
Creston Intersections	--	--	100	60	
Foothills Road - Chief Lake Road	2.00	--	100	70	
Hwy. No. 97 & District Road 255 Ft. St. John	0.70	--	100	90	
Hwy. No. 97 & 5th Avenue Interchange, Prince George	0.70	60	100	5	
Northwood Pulp Access, Section 1	2.00	--	80	15	
Northwood Pulp Access, Section 2	6.00	--	75	--	
Hansard Bridge Approaches	3.22	--	15	--	
Fox Mountain Road - Williams Lake	9.56	--	100	15	
Ft. Nelson - Ft. Simpson Highway	45.00	--	100	80	
D'Easum & Tsinhia Creek Culverts on Ft. Simpson - Ft. Nelson Highway	1.00	--	100	100	x
Northeast Coal					
Jct. Hwy. No. 97 to Martin Creek	23.01	100	100	100	x
Martin Creek to Gwillim Lake	27.00	100	95	95	
Gwillim Lake to Tumbler Ridge	40.00	100	90	60	
Feller Heights to Tumbler Ridge	63.00	100	58	--	

Name of Project	km	Prelim. Study % Complete	% Complete Survey	% Complete Design	Contract Awarded
Dist. Rd. 151 Buick Creek to D.L. 2994	40.00	--	100	--	
Dist. Rd. 43 Clayhurst Bridge Site	1.00	--	100	--	
MacKenzie Townsite North	9.00	--	100	--	
Vanderhoof Village & Misc. Roads	47.70	--	100	100	x
McKenzie Ave. & Hwy. No. 17 Inter.	1.00	10	5	--	
McKenzie Ave. Hwy. No. 17 to Hwy. 1	2.50	--	100	99	
Wale Road	0.80	100	70	--	
Shawnigan Lake Road Railway U/P	0.80	--	12	--	
Compton Road	0.60	--	100	15	
Crofton Access	6.44	100	65	96	
Crofton Access Alternate	6.44	100	50	--	
Duke Point Access Road	6.11	100	100	99	
Lazo Road - Miracle Beach	27.00	--	90	10	
Wally Creek Site Plan	0.80	--	98	--	
Curry Creek Site Plan	0.80	--	99	--	
Marble Creek Site Plan	0.50	--	100	--	
Durrance Lake Road	6.00	50	45	--	
Port Albion Bridge & Approach	2.80	--	55	--	
Old Cowichan Lake Road	0.80	--	80	60	

Preliminary Study Section

Before design can be undertaken studies of possible and feasible routes must be made. In this regard the following has been undertaken by this section of the Design and Surveys Branch between April 1, 1980 and March 31, 1981.

Sufficient high level photography was obtained to produce low order reconnaissance mapping on the following:

High Level

1. Brittania Beach.
2. Westland Pit (Quesnel).
3. Peace and Pine River Area.
4. Graveyard Creek (Dawson Creek).
5. Crescent Spur.
6. Houston Area.
7. Hanna Creek.
8. North Shore Road (Port Moody).
9. Mt. Currie–Duffie Lake.
10. Bowen Island.
11. Couie Creek (Dawson Creek).
12. Ranch Valley.
13. Dunster Station Road.
14. Mountain View Road.
15. Hope Princeton, 26 km–60 km.
16. Merritt–Kamloops.

Sufficient low level photography was obtained to produce high order mapping on the following:

Low Level

1. Vernon–Swan Lake.
2. Thetis Lake Overhead–Saanich Road.
3. Cranbrook Interchange.
4. Spencer Road–Shawnigan Lake Junction.
5. Horseshoe Bay–Lynn Creek.
6. Willow Point–Campbell River.
7. Edelweiss–Yoho Bridge.
8. Annacis.
9. Nicomekl–64th Avenue.

Low order mapping was obtained on the following:

1. Smithers Bypass.
2. 83 Mile–94 Mile House.
3. Topley–Broman Lake.

High order mapping was obtained on the following:

1. Silverdale–Mission.
2. Mill Bay–Koksilah.
3. Hammond Bay Road–Superior Road.
4. Cassiar Street.
5. Castlegar–Pass Valley.
6. Highway 33, Rutland.

7. Willow Point–Campbell River.
8. Edelweiss–Golden.
9. Brodie–Merritt.

Route projections or layouts were made or continuing on aerial photographs and mapping for the following:

1. Dewdney Creek–Portia.
2. Coquihalla Lakes–Brodie.
3. Brodie–Kingsvale.
4. Kingsvale–Merritt.
5. Sample Stacked Diamond Interchange.
6. Cambie and Knight Interchange.
7. Site C Revision.
8. Golden–Yoho.
9. Fraser Crossing (Prince George).
10. 5th Street and Highway 97, Prince George.
11. Byrne–Queensborough.
12. Harvey Avenue (Kelowna).
13. Annis Road Interchange.
14. Mathews Road Interchange.
15. Knight Street–Queensborough Bridge.
16. Quesnel Bypass.
17. Fraser Rive Bridge Approaches (Quesnel).
18. Beacon Avenue (Highway 17).
19. Cassiar Street.
20. Queensborough Bridge North Approach.
21. Merritt–Kamloops.
22. Weigh Scale (Upper Prairie Road area).
23. 83 Mile–94 Mile (Highway 97).

Design completed or continuing:

1. Valleyview–Campbell Creek, Section 2.
2. Coquihalla, Section 14.
3. Chetwynd Underpass.
4. Ladysmith–Carmichael Road.
5. Sowaqua Creek–Dewdney Creek.
6. Byrne–Queensborough Bridge.
7. Coquihalla, Section 6.

Archaeological

The Pitt River (Mary Hill) field project was completed in 1980, however, analysis of artifacts is continuing. There were many interesting "finds" and the use of local school children to assist in the work made this a unique program.

Impact assessments were carried out on a Regional and District level and many potential conflicts were resolved prior to construction throughout the Province.

Again this year we have requested that funds be allocated to insure that this work is ongoing.

Metric Conversion

The main function of the office of Metric Coordinator this past year has been the distribution of information and printed materials to Headquarters, Regional and District staffs. We have distributed numerous booklets and instruction sheets that help our personnel become familiar with

metric measurement. We were also called upon again to give a seminar to members of the B. C. Roadbuilders. These lectures were held at B.C.I.T. in the spring of 1980.

Work continues on the conversion of the General Specifications with particular attention given to rewriting or upgrading rather than just soft converting. A detailed report has been submitted to the Highway Board.

Planning of new projects is totally metric.

Our Design Teams are capable of producing a complete metric contract, and about one-half of all design work being done today is totally metric. The reason for the continual production of contracts in imperial units is that the survey work and background information was done in imperial. It was anticipated that the percentage of imperial work will decrease rapidly next year, but that the Ministry will be faced with the problem of using up the backlog of imperial work for the next three or four years.

Highway Construction in Metric.

Seventy-five percent of all grading contracts let during the 1979–1980 fiscal year were totally metric. This included 11 major cost sharing projects with B.C. Hydro at Revelstoke. However in the fiscal year of 1980–1981 only 30 per cent of the grading contracts were totally metric. This reduction in percentage is not indicative of a reversal in trend but reflects the fact the work done was based on background information and surveys done several years ago.

We continue to liaise with the Federal Government Metric Commission, reporting to them twice a year on the progress of conversion in the Western Provinces and Territories.

The Engineering fraternity of the Ministry is comfortable with the metric system by now and report that they are finding it more convenient and easier to use than the old imperial system.

Sound Control

As a result of increasing public concern about excessive environmental sound from transportation and industrial sources and the Ministry's plans for several major highway projects in the Greater Vancouver area, such as the Annacis Island Crossing and the Cassiar Link, the position of Sound Control Studies Engineer was created and was filled in March 1980.

The duties of the Sound Control Studies Engineer include: evaluation of the impact of sound from existing and proposed highways near residential and other sensitive areas, where appropriate, the design of highway sound abatement measures, and the familiarization of regional personnel with the highway sound and its control.

During 1980, sound impact reports were prepared on the following projects: Stormont–McBride Connection (Burnaby), Colony Farm and Cape Horn Interchanges (Coquitlam), South Fork–Salmo Realignment, Cassiar Link, Langley Bypass, and Annacis Island Crossing. Projects on which work will continue in 1981 include Annacis, Trail–Tadanac and the Cassiar Link. Consulting acoustical engineers were retained to conduct community sound level surveys for the Annacis and South Fork–Salmo projects.

Other activities during the 1980–81 fiscal year included the establishment, through British Columbia Systems Corporation, of a computer program to predict highway sound levels, and the initiation of a review, for the Geometric Design Committee of R.T.A.C., of current practices and research needs in the design and construction of highway sound abatement structures.

Computer Operations

In cooperation with British Columbia Systems Corporation this Branch continues to be a sophisticated IBM mainframe computer user. Over the years a considerable data base has evolved, consisting of topographically surveyed highway corridors. This stored computer terrain model, coupled with numerous highway design computer programs, allows engineers and technicians to rapidly analyze and cost out proposed highway designs. The computer can provide an Elevation

Reduction Program, a Horizontal Alignment Program and an Earthwork Program. Combined, these can provide the designer with complete design elements. What once took two man-months to complete, now requires one man-day, due to ever improving highway design computer methods.

The computer output is in the form of reports and graphic plots—cross sections, profiles, mass hauls and perspective plots. Other graphic plots are in the planning stage with the eventual aim being to provide an integrated highway design and computer assisted drafting/mapping system to headquarters and through telephone lines to the regional design offices where remote terminals are presently being installed.

The past year has seen the successful implementation of the Pavement Overlay Computer Program, Perspective Plot and Photomontage. Photomontage combines an actual photograph, with a computer generated view of the proposed highway design, thus creating a final presentation graphic which is useful in social, economic, environmental and preliminary route studies.

In addition to the mainframe computer the Design and Surveys Branch had 35 Texas Instruments 59 Programmable Calculators in operation throughout the Province. A program library has been created with more than 20 programs for surveying, volume calculations and geometric design.

Consultants

This past calendar year the Ministry has requested consulting firms to carry out the survey and/or design work on the following projects, many of which are ongoing.

1. Mary Hill Bypass—5.0 km new route.
2. Mission Roadworks—8 km Silverdale to Mission.
3. Highway 1–Capilano to Lynn Valley—4.0 km of freeway design.
4. Haney–Silverdale—18.5 km four laning.
5. Stanley Park Causeway—1.6 km reconstruction and resurfacing of road through Stanley Park.
6. Scott Road–Highway 10 to 80th Avenue—4.2 km curb and gutter.
7. McKenzie Avenue Extension—1.5 km curb and gutter plus interchange design.
8. Lillooet Bridge Approaches—1.0 km of Station Hill Road.
9. Summit Drive in Kamloops—4.8 km new urban arterial route.
10. Vernon–Highway 6 from 27th Street to 32nd Avenue—0.8 km new urban route.
11. Penticton Channel Parkway, Section 2—3.4 km part curb and gutter.
12. Rossland Avenue–Stoney Creek in Trail (Trail–Tadanac Relocation)—2.4 km new connection to Highway 3A near Cominco.
13. Highway 23–Revelstoke–Mica—95.5 km replacement of highway flooded by Revelstoke Dam.
14. NE Coal Access–Chetwynd to Tumbler Ridge—94.4 km new road to proposed coal development.
15. North Star Road Interchange at Quesnel—4.3 km paved highway and approach ramps plus six lane wide bridge (26 m long).
16. 5th Avenue Interchange Prince George—1.5 km future diamond interchange at Junction Highway 97 and 5th Avenue, Prince George.

Consultants are also doing the following Environment and Socio-Economic Impact Studies:

1. Crofton Access.
2. Nanaimo Bypass.

3. Mud Bay–Menzies Bay.
4. Qualicum North Bypass.
5. Kamloops–Merritt (Coquihalla).
6. Coldwater Indian Reserve (Coquihalla).

Hydraulic Engineer

The work of the Hydraulic Engineer has been extremely varied ranging from the design of storm sewers and evaluating open ditch drainage problems to establishing the hydraulic constraints for bridges over major rivers. Some of the projects dealt with were: Fort St. John Storm Sewers, Old Yale Road Drainage, bridges over the Nechako River at Prince George, Nass River at Greenville, and the Cheakamus River at Squamish.

Considerable time has been spent on reviewing the hydraulic aspects of design proposals both in connection with the Northeast Coal road to Tumbler Ridge and with subdivisions in unorganized areas.

The heavy rains that hit the southwest corner of the Province in late December caused many highway washouts and it has been necessary to review the hydraulic designs of the affected projects including Culliton Creek north of Squamish and the Coquihalla Highway near Hope.

Coquihalla Highway (Hope to Kamloops)

The planning and design of the 110 km Coquihalla Highway between Hope and Merritt is continuing. In addition the preliminary planning for the 90 km extension from Merritt to Kamloops has started.

Of the 110 km between Hope and Merritt, 67 km have been surveyed, and an additional 8 km will be surveyed this coming summer. One 4.8 km contract is essentially completed, and a second 4.6 km contract is under construction. An additional five contracts totalling about 21 km could be ready for tendering in the coming year.

Environmental Section

Environmental section continued to play an increasingly active role in a wide range of highway operations throughout the Province. During the past year numerous environmental studies were initiated, coordinated, conducted and reviewed for the Ministry and other agencies.

Ongoing environmental and engineering feasibility studies initiated in the past fiscal year include the Coquihalla Stage 2 Reports I and IV, and three Vancouver Island Studies, namely, Mud Bay–Menzies Bay, the Nanaimo Bypass and Crofton Access road. These studies are near completion.

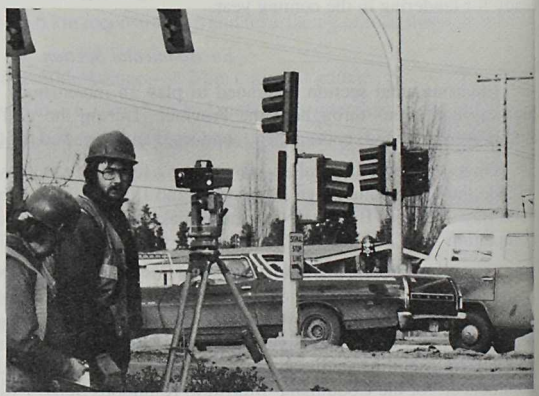
Several environmental studies initiated this past year included the Chetwynd–Tumbler Ridge Stage 2 Report and the Qualicum North Bypass Study on Vancouver Island. Two studies, the Coldwater Indian Band Socio-Economic Study and the Coldwater Hydrology/Fisheries Study, related to the Coquihalla Highway Project are in final stages of preparation. In addition, specialized discipline studies comprised of Fish and Wildlife and Heritage Conservation surveys commenced for the Coquihalla–Merritt to Kamloops Stage 1 Report.

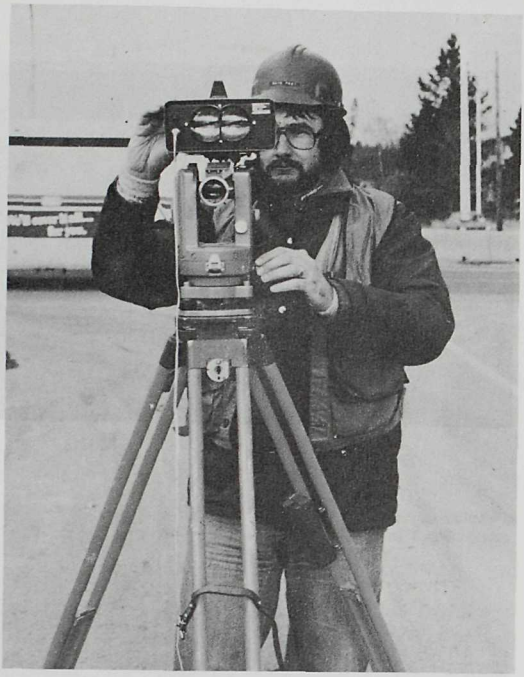
The environmental section conducted two workshops on the Anik-B Satellite System, through the Ministry's training program, on environmental concerns in roadway operations.

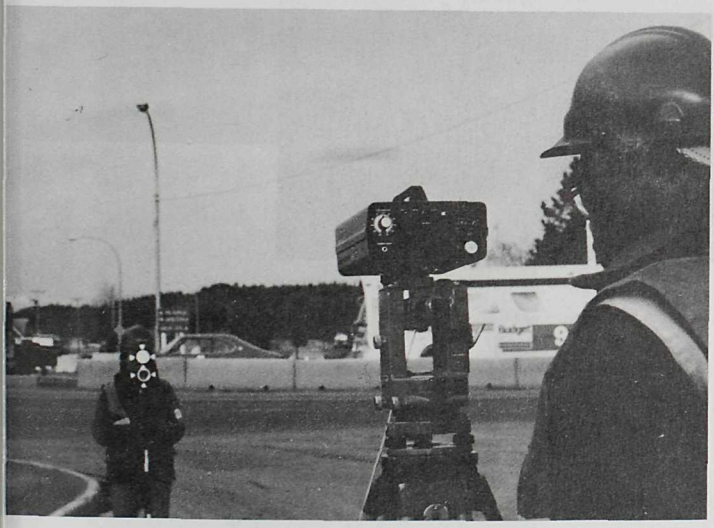
Joint studies with the Fish and Wildlife Branch continued concerning wildlife/vehicle collisions and wildlife reflector installation.

Demonstrating the use of Electronic Distance Measuring (Geodometer) in use in heavy traffic in the Prince George area.

Design and Survey crew, December, 1980.

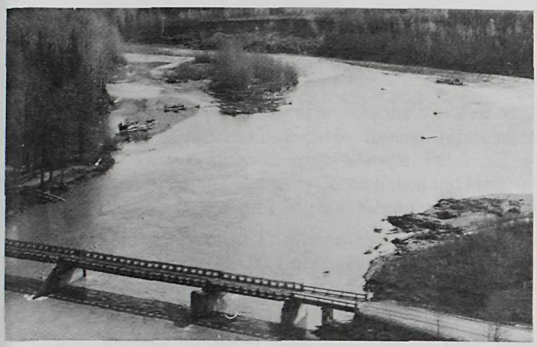






NORTHEAST COAL DEVELOPMENT

Looking west, junction Wolverine and Bullmoose Creek.



Pine River at Twidell Bend, looking east.

Looking northwest up Bullmoose Creek from north of Tumbler Ridge.

Looking southeast at the Murray River and Tumbler Ridge.

REPORT OF DIRECTOR OF GEOTECHNICAL AND MATERIALS ENGINEERING

J. W. G. KERR

General

Promotions and replacement appointments affected some 35 members of a total staff of 186, divided amongst the six Regional laboratories and Headquarter units in Victoria and Burnaby.

Changes in senior personnel appointments included Mr. D. Nyland, P.Eng., to Regional Geotechnical and Materials Engineer in Terrace, replacing Mr. G. Stock, P.Eng., who was appointed to th same position in Prince George. Personnel losses to the private sector include Messrs. J. Schmidt, P.Eng., Regional Geotechnical and Materials Engineer in Prince George, J. S. O'Brien, P.Eng., Geotechnical Engineer, Kamloops, as well as three Engineers in training.

Staff members attended 12 diverse specialty conferences and seminars ranging from the Annual Canadian Geotechnical Conference in Calgary to a Seminar on Precision Blasting in Phoenix, U.S.A. The Branch presented papers dealing with the economics of sulphur asphalts, the oxidation of B.C. asphalts, and on geotechnical studies for land subdivisions.

Three Regions presented basic soils courses to Ministry maintenance and construction personnel.

Geotechnical Highway Design

Investigations were done on 42 projects representing a distance of 169 km; about a quarter of these represented low intensity surveys and the remainder consisted of detailed intensive work.

Geotechnical design reports were completed on an additional 3 sections of the Coquihalla Highway for a total distance of 23.4 km. The Annacis Island crossing approaches, connectors and materials needed considerable additional work to prepare for final design.

Foundation Investigation

Foundation investigation and design reports were completed for 91 projects. About half of these were for small bridges to be replaced by District forces. Some typical projects included proposed structures on the Penticton Channel Parkway, four sites near Sparwood on the Elk Valley Road, and Nechako River Crossings at Prince George and Vanderhoof.

Stability Investigations

Apart from numerous washouts and debris slides in December 1980, there were no major landslides affecting the highway system. The Branch investigated and reported on 56 areas to maintain or restore stability of highway cuts and fills. These ranged from a failure during construction on the Nechako Hill widening of Highway 97 and Prince George, to a study aimed at finding an alternate alignment to the slide prone Beaton Hill section of Road Number 103 at Fort St. John. Monitoring of dangerous cutslopes continued in nine locations.

Geotechnical Hazards

The number of terrain evaluation studies for the purpose of identifying geotechnical hazards in proposed subdivision areas reached an all time high of 258 subdivision areas representing 3,079 lots. Greatest increases were in Regions 2, 3 and 6. A general area study was completed for the Deadman Creek Valley north of Savona.

Aggregate Investigations

A total of 336 gravel pits and prospects was investigated in detail, involving a record total 365 km of electromagnetic resistivity survey lines, plus backhoe pits, drilling and laboratory testing

for gradation and soundness. In a continuing effort to optimize the use of scarce aggregate resources for highway construction purposes in most parts of the Province, the Branch is reviewing and standardizing aggregate tests and specifications, the granular pit report format and an aggregate management system.

Quality Control and Material Testing

Testing methods, specification review and development for new materials, and testing for new construction procedures, such as with sulphur asphalt, were the principal activities of the Victoria laboratory. Branch laboratories tested a variety of materials for adherence to specifications including mass concrete and concrete products, lumber, culvert pipe, barbed wire, fence posts, paint, etc. A total of 1,044 concrete inspections was done and 4,407 concrete cylinders were tested for compressive strength. Of the 27 crushing contracts, 26 were served with limited quality control testing.

Drilling Operations

Equipment now includes two new heavy duty B61 mobile drills, four older truck mounted drills, a track mounted diamond drill, an Aardvark horizontal drill primarily for the installation of horizontal drains, and a variety of other field testing equipment such as vane shear apparatus, a static cone rig and semi-portable core drills. Some 322 exploration holes were drilled with a total length of 8,850 m. Regional drills combined reported 8,510 m total length of drilling. A total of 1,346 m of horizontal drains were installed with the Aardvark drill in slope stabilization works.

Geophysical Services

Geophysical investigations were completed on 47 projects. 10 km of seismic refraction line was run in soil and bedrock investigations; 460 km of electro-magnetic conductivity surveys were completed in aggregate and soil investigations. Acoustic emission monitoring equipment has been received for the purpose of detecting decreasing stability conditions of soil and rockslopes during construction.

Rockwork

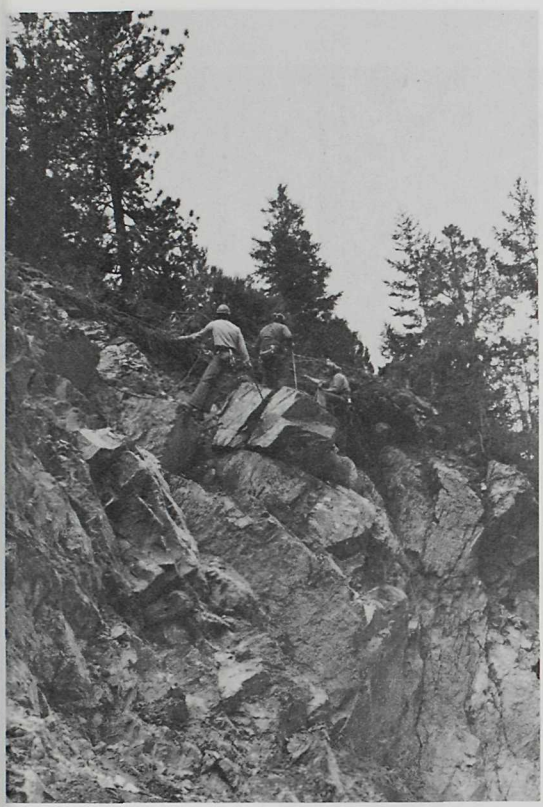
The high scaling crew, reorganized into two small flexible units, spent 190 crew shifts to remove 9,500 m^3 of dangerous loose rock from high rock faces throughout the province.

Pavement Evaluation

Benkelman Beam rebound testing, drilling and visual examination to provide design details for reconstruction, overlays and repairs was done on 95 projects with a total length of 923 km. Spring load restriction tests were made on 251 control sections representing all paved highways in the Province.

Applied Research

Work on new construction materials included the evaluation of the economics, physical and chemical properties of sulphur extended asphalt, which has been incorporated in the Fort St. John experimental construction section. Continuing studies in the frost heave problem included re-examination of the gradation specifications for base courses to define permeabilities and other factors related to frost-induced damage.



Photograph showing scaling of loose rock near the crest of the slope at the Circle K slide site.

Photo showing the installation of an E.D.M. monitoring device at Hell's Gate Bluff.

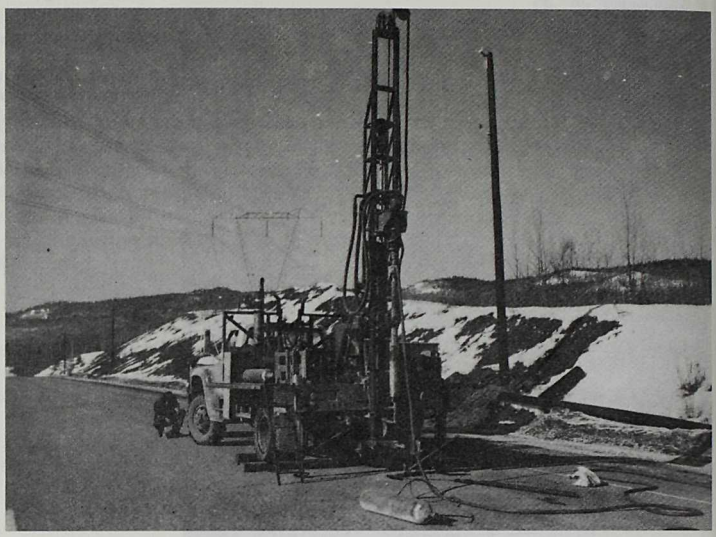
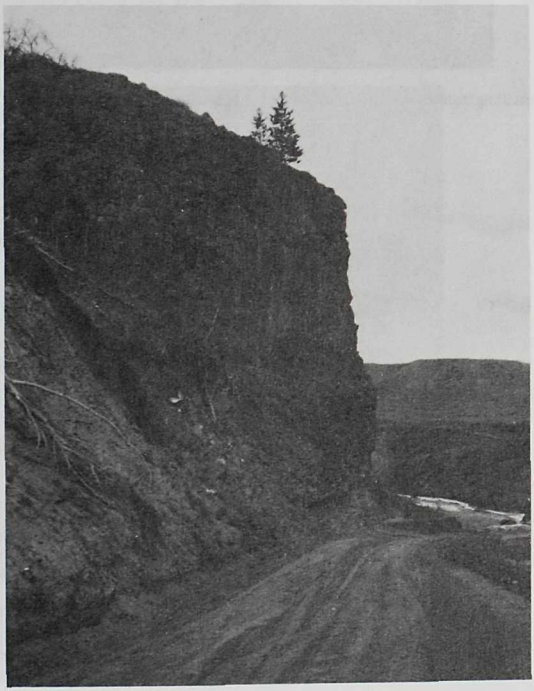
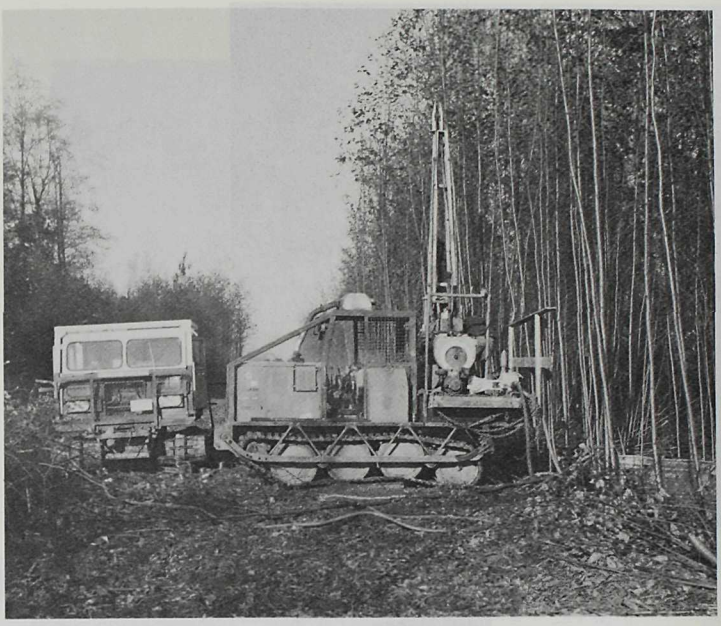


Photo showing auger drill, April 1980, drilling frost heaves.

Shows location of Nass River Bridge at Greenville and part of route survey. December 1980.

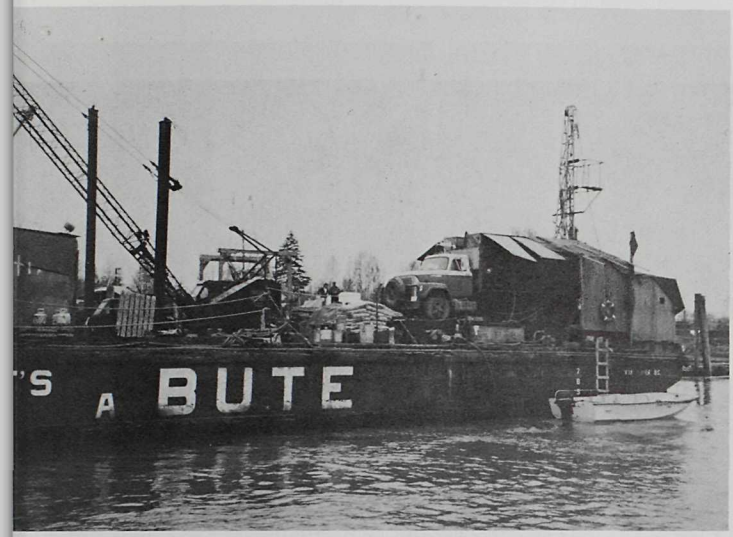


Typical rock bluff section on Telegraph Creek Road.



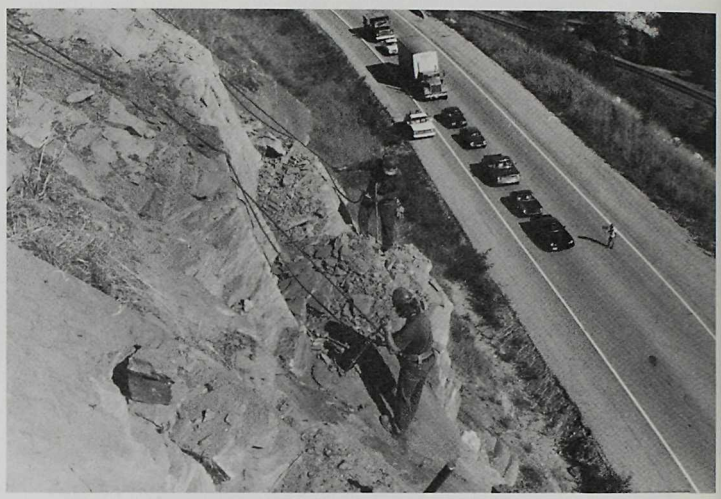
Installing instruments to measure settlement at Site 1 stockpile area Annacis Island for the proposed Annacis Crossing.

All Terrain Vehicle mounted small auger.

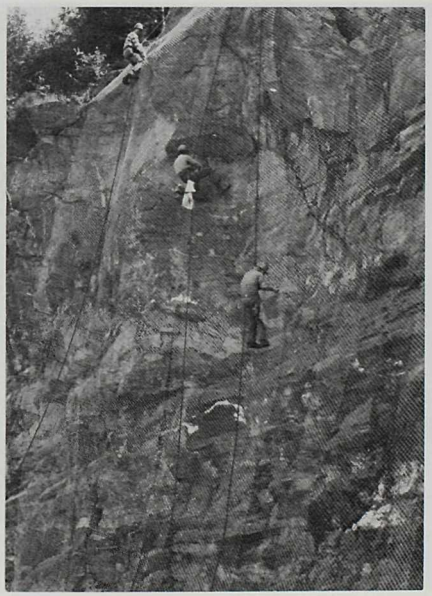


Highways drill in Fraser River testing foundations for the Annacis Crossing.

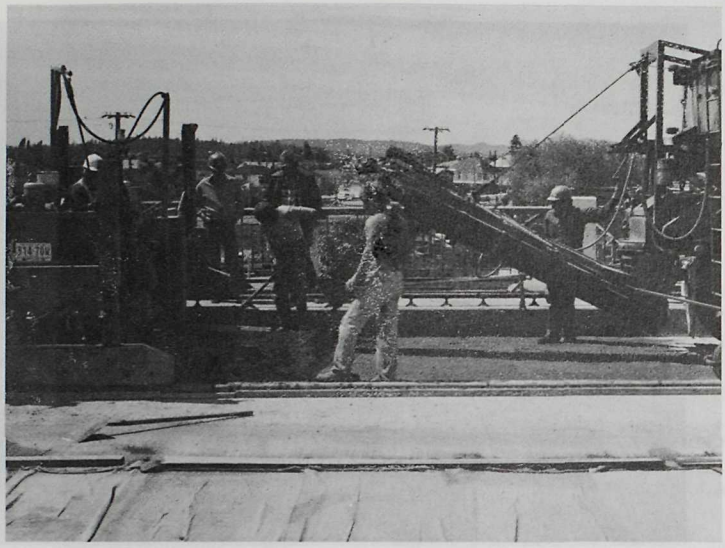
Benkelman Beam, May 1980. Drilling Kalum Lake Road.



Scaling of loose rocks after a blast at Genelle Bluffs, Highway 22 north of Trail.



The installation of mesh at the Prince Rupert Ferry Terminal.



New materials and processes include rapid hardening high alumina cement concrete being placed on a bridge deck on Highway 17, Victoria.

Treatment of a frost heave on Highway 3, Salmo–Creston. Placement of the geotextile filter cloth was complicated by the presence of a high voltage transmission line just below the shoulder.

A sulphur stockpile at Taylor, B.C., source of the sulphur used in the sulphur asphalt paving project in the Fort St. John area.

REPORT OF THE DIRECTOR OF BRIDGE ENGINEERING

L. C. JOHNSON, P.Eng.

A total of $30,000,000 was expended on bridges and ferry terminals during the year. The following reports of the Senior Bridge Design Engineer, the Bridge Construction Engineer and the Dock Engineer provide details of the Branch's activities.

Highlighting bridge activity was completion of construction of Taghum Bridge over the Kootenay River west of Nelson; the rehabilitation of the "old" Pitt River Bridge on the Lougheed Highway; the continuation of construction on "The Bridge of the 23 Camels" over the Fraser River at Lillooet and on the McPhee Bridge near Cranbrook; and the start of construction on the Petitot River Bridge north of Fort Nelson.

In May the Ministry suggested that many of the experienced bridge consultants group themselves into consortia for the express purpose of responding to a forthcoming invitation to submit proposals for the design of the Annacis Island Bridge main span in steel and in concrete and for its substructure. Resulting from an assessment of proposals submitted, one consortia was assigned the design of the main span in steel, another the design in concrete and another consultant was assigned the foundation investigation. By the end of the fiscal year the consortia were organizing to commence design.

Preliminary design work commenced late in the year on another Annacis Island Crossing related structure—the movable span bridge to replace the existing connection between Lulu and Annacis Islands. This structure is to permit movement of river traffic into and out of Annacis Channel and will carry highway and railroad traffic.

The major accomplishment of the Dock Section was the completion of the terminal at Skidegate on Queen Charlotte Islands. This new facility is the western terminus of the Prince Rupert–Queen Charlotte Island route.

BRIDGE DESIGN

Design work was diversified throughout the Province.

The following are details of the program

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The following are details of the programme:

	Preliminary Study	Design in Progress	Design Completed	Tender Called in 1980-81
TRANS-CANADA HIGHWAY				
Diamond O/H	x			
Bonaparte River Bridge (widening)			x	
Gibson's Road Underpass			x	
Koksilah Pedestrian Overpass			x	
Mac Bloedel Logging Underpass		x		
Texas Creek Bridge (widening)	x			
YELLOWHEAD HIGHWAY				
Kasiks Overhead		x		
SOUTHERN TRANS-PROVINCIAL HIGHWAY				
Nicolum Creek Bridge (widening)			x	
Eleven Mile Creek Bridge (widening)			x	
ISLAND HIGHWAY				
Nanoose Creek Bridge (Modifications)		x		
Bonell Creek Bridge (Modifications)		x		
Nancose Overhead			x	x
Courtenay River Bridge (17th Street)			x	x
HIGHWAY 37				
Thomas Creek Bridge			x	
Hanna Creek Bridge			x	
Dease River Bridge			x	

BRIDGE DESIGN - continued	Preliminary Study	Design in Progress	Design Completed	Tender Called in 1980-81
HIGHWAY 37 - continued				
Tanzilla River Bridge			x	
Surprise Creek Bridge			x	
Cottonwood River Bridge		x		
HIGHWAY 37A				
Bitter Creek Bridge			x	
Cullen Creek Bridge	x			
Bear River No.1 Bridge			x	x
Bear River No.2 Bridge			x	
ANNACIS ISLAND CROSSING				
Annacis Island Swing Span	x			
Annacis Island Bridge	x			
REGION 1 MISCELLANEOUS				
Colony Farm Overhead			x	x
Coquitlam River Bridge	x			
Sunset Creek Bridge		x		
"M" Creek Bridge		x		
Mary Hill Bypass Overhead		x		
Red Bridge	x			
Cheakamus River Bridge (Cheekeye)		x		
Mission Overhead		x		
Cape Horn Flyover		x		

BRIDGE DESIGN - continued	Preliminary Study	Design in Progress	Design Completed	Tender Called in 1980-81
REGION 2 - MISCELLANEOUS				
Lillooet Underpass			x	
Enderby Bridge		x		
Mission Flats Overhead		x		
Main Street Underpass (Lillooet)			x	
Ashcroft Bridge (widening)		x		
Okanagan Lake Bridge (Cable Repair)		x		
Okanagan Lake Bridge (Widening)		x		
Eckhardt Bridge			x	
Mission Creek Bridge			x	
Clearwater Town Bridge			x	
Oyama Canal Bridge			x	(1)
McDougall Creek Bridge (East Boundary Road)			x	
REGION 3 MISCELLANEOUS				
Michel Creek Bridge		x		
Michel Prairie Bridge		x		
Elkford Spur Overhead		x		
Sparwood Overhead		x		
Trail CPR Underpass		x		
Wilson Bridge		x		
Creston-Porthill (Black Bridge)			x	
Nelson Waterfront		x		
Vallican Bridge		x		
Passmore Bridge		x		

BRIDGE DESIGN - continued	Preliminary Study	Design in Progress	Design Completed	Tender Called in 1980-81
REGION 3 - MISCELLANEOUS - continued				
Slocan Park Bridge		x		
Asher Creek Bridge	x			
Kaiser Bridge	x			
REVELSTOKE - MICA				
Downie Creek Bridge and Removal of Bigmouth Bridge			x	
REGION 4 - MISCELLANEOUS				
McLarry Bridge			x	x
Petitot River Bridge			x	x
Murray River Bridge		x		
Widwell Bend Bridge			x	
Dickebusch Bridge			x	
Vanderhoof West Bridge			x	
Vanderhoof West Overhead			x	
Blayhurst Bridge	x			
North Star Overpass			x	
Davie Street Pedestrian Overpass			x	x
CNR Underpass (Foothills)		x		
Pechako River Bridge (Foothills)		x		
REGION 5 - MISCELLANEOUS				
Bean-To Bridge			x	x
Greenville Bridge	x			
Bridley Island Overhead			x	

BRIDGE DESIGN - continued	Preliminary Study	Design in Progress	Design Completed	Tender Called in 1980-81
REGION 6 - MISCELLANEOUS				
Wain Road Pedestrian Underpass	x			
Marble River Bridge		x		
Brown's River Bridge			x	
Interurban Overpass (McKenzie Avenue)		x		
Nanaimo River (Cedar) Bridge			x	
Swan Creek Bridge			x	
Carey Road Pedestrian Overpass			x	

(1) Day Labour

GSK:bm

Bridge Construction

In the 1980–81 fiscal year, 23 new vehicular bridges and 2 pedestrian overpasses were ompleted, and the old Pitt River Bridge was renovated. Modifications were made to five other ridges. On March 31, 1981, 15 bridges were under construction.

Work continued on three large bridges and one smaller one on the Revelstoke–Mica Highway, which is being relocated above the level of the future reservoir behind the Revelstoke Dam.

The substructure was completed and prestressed stringers were erected on the Courtenay River Bridge, which will provide an alternative route on the Island Highway through the City of Courtenay and ease traffic congestion. This bridge will include a bascule (vertical swing) span, to allow for the passage of vessels.

Taghum Bridge, a major structure across the Kootenay River near Nelson, was completed.

Cold weather near the end of 1980 brought work on the Lillooet bridge deck to a stop. It is oped to complete this structure by June 1981.

The east abutment and the three easterly piers were completed on the Petitot River Bridge on ne new highway from Fort Nelson connecting with the Mackenzie Highway in the Northwest erritories. This highway will facilitate oil and mineral exploration. It is planned to complete the etitot River Bridge during 1981.

During the fiscal year some 2,300 t of bridge steel were fabricated and about 2,000 t were ected. In addition, about 1,400 t of steel were fabricated for ferry terminal structures.

The production of prestressed concrete I beams fell sharply to 1,500 m, but that of estressed concrete box stringers remained high at 6,400 m. Most box stringers were used by the ighway Districts in their bridge construction program.

The bridge resurfacing operation produced 22,000 m^2 of overlay. Twenty-four bridges were surfaced, widely distributed throughout the province, and including the Fraser River and New echako Bridges in Prince George and the Trail Bridge. A special rapid-hardening concrete was sed on the small Douglas Street Bridge in Victoria, with encouraging results. After further search, this product could prove useful in reducing the periods of traffic re-routing while erlaying bridges. Traffic and its control continues to be a most difficult aspect of the resurfacing ogram.

BRIDGES CONSTRUCTED OR IMPROVED 1980-81

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2671	Athalmer Overhead	Athalmer-Invermere Road	Columbia River	A 200' three span prestressed concrete stringer bridge consisting of one 77' main span and two approach spans of 67' and 55' with a reinforced-concrete substructure and having a roadway width of 32'.
1246	Bonell Creek Bridge Duplicate	Island Highway	Comox	A 110' three span prestressed concrete box stringer bridge consisting of one 40' and two 35' spans supported on pipe pile bents and abutments and having a 40' roadway.
1247	Nanoose Creek Duplicate	Island Highway	Comox	A 110' three span prestressed concrete box stringer bridge consisting of one 40' and two 35' spans supported on pipe pile bents and abutments and having a 40'-6" roadway.
611	Duncan Wagon Bridge	Indian Road	Cowichan-Malahat	Modification to existing portal bracing on one 190' through steel truss.
58	Pitt River Bridge	Lougheed Highway	Dewdney	Rehabilitation work to the existing south bridge structure including replacement of part of the concrete deck, construction of a deck wearing surface, miscellaneous modifications and removal and installation of mechanical and electrical equipment.
348	Brewery Bridge	Cokato Road	Kootenay	A 92' single span prestressed concrete stringer bridge supported on reinforced concrete abutments and having a roadway width of 24'.

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
769	Carbon Bridge	Southern Trans-Provincial Highway	Kootenay	An 85' single span prestressed concrete stringer bridge supported on reinforced concrete abutments and having a roadway width of 36'.
2722	Fording Drive Bridge	Fording Drive	Kootenay	A 50' single span prestressed concrete box stringer bridge supported by reinforced concrete abutments on steel piles and having a 29' roadway with two 6'-6" sidewalks.
2612	Erie Creek Bridge	Southern Trans-Provincial Highway	Nelson-Creston	A 160' three span prestressed concrete stringer bridge consisting of a 90' main span and two approach spans 25' and 45' supported on two pile bents and reinforced concrete abutments
2543	Woodchuck Bridge	Southern Trans-Provincial Highway	Nelson-Creston	A 257' three span prestressed concrete stringer bridge consisting of one 119' span and two 69' spans supported on a reinforced-concrete substructure and having a roadway width of 32'.
206	Taghum Bridge West Branch	South Trans-Provincial Highway	Nelson-Creston	A 980' bridge with a 28' roadway and one 6' sidewalk; consisting of 4-span continuous twin steel trapezoidal box girders supported on three reinforced concrete piers and abutments.
	East Branch			A 340' bridge with a 28' roadway and one 6' sidewalk: consisting of two-span continuous twin steel trapezoidal box girders supported on a reinforced concrete pier and abutments.
2613	Lower Quatse River Bridge	Island Highway	North Island	A 110' one-span prestressed concrete stringer bridge with a reinforced concrete substructure and having a roadway width of 37' at the east end and widening to 43'6" at the west end.
7662	Port Alice Bridge	Port Alice Road	North Island	A 99' single span steel plate girder bridge supported on reinforced concrete abutments and having a roadway width of 24'. Contract included the demolition of a log stringer bridge.
2704	Quatesi Creek Bridge	Bear Cove Access Road	North Island	An 84' one-span prestressed concrete stringer bridge with a reinforced concrete substructure and having a roadway width of 32'.

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No.	Name	Location	Electoral District	Type, Description of Work and Remarks
1602	Jones Avenue Pedestrian Overpass	Trans-Canada Highway	North Vancouver - Capilano	A prestressed concrete footbridge consisting of one 31 metre main span and two cast in place concrete ramp abutments and two reinforced concrete piers.
2713	Mill Creek Bridge	Glenmore Street	Okanagan South	An 8.5m long prestressed concrete box stringer bridge on reinforced concrete abutments and having a 19.4 m roadway and two 2.7 m sidewalks.
2181	Endako Overhead	Yellowhead Highway	Omineca	A 226'6" three span continuous steel plate girder bridge consisting of one 87' span and two 70' spans supported on a reinforced-concrete substructure and having a roadway width of 32'.
2520	Endako River Bridge	Yellowhead Highway	Omineca	A 295' three span continuous steel plate girder bridge consisting of one 121' middle span, one 88' end span and one 86' end span supported on a reinforced having a roadway width of 32'.
1185	Parsnip River Bridge	John Hart-Peace River Highway	Prince George North	Removal of existing pipe railing and erection of 1218' of guard railing.
2614	Beaver Creek Bridge	Trail-Salmo Highway	Rossland Trail	A 140' four span prestressed concrete box stringer bridge consisting of four 35' spans supported on pile bents and abutments and having a roadway width of 32'.
2676	C.N. Railway Overpass Seymour Avenue	Patricia Bay Highway	Saanich and the Islands	A 116' structural steel plate arch with reinforced-concrete footings and a structural steel plate pedestrian underpass 128' long and having a roadway width of 46'.
2657	Vernon Ave. Overhead	Patricia Bay Highway	Saanich and the Islands	A 96' three span prestressed concrete box stringer bridge consisting of one 36' span and two 30' approach spans supported on a reinforced-concrete substructure and having a roadway width of 44' with two 7' sidewalks.

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
370	Legate Creek Bridge	Yellowhead Highway	Skeena	Partial demolition of existing bridge and construction of a 271' three span prestressed concrete stringer bridge consisting of three 90' spans supported on a reinforced concrete substructure and having a roadway width of 28'.
1074	St. Croix Creek	Yellowhead Highway	Skeena	A 150' three span prestressed concrete box stringer bridge consisting of three 50' spans supported on a reinforced concrete substructure and having a roadway width of 34'.
2710	Moonlit Creek Bridge	Kitwanga-Meziadin Lake Highway	Skeena	A 120' three span prestressed concrete box stringer bridge consisting of three 40' spans supported on pile bents and reinforced-concrete abutments and having a roadway width of 36'.
6708	Log Creek Bridge	Yellowhead Highway	Skeena	A 94' prestressed concrete box stringer bridge consisting of three 31'-3" spans with concrete cap on steel pipe piles for abutments and having a 39'-6" roadway.
2715	McDougall Creek Bridge	Okanagan Highway	South Okanagan	Three 30' single span prestressed concrete box stringer bridges for the main highway and two frontage roads side by side supported on reinforced concrete abutment retaining walls with a roadway width for the highway at 61'9" and for the frontage roads 27'6".
✓1197	West Pine Bridge	John Hart-Peace	South Peace River	Construction consists of the removal of the existing steel truss and construction of a 122' steel girder span with a 34' roadway supported on widened existing concrete abutments.
1481	Lion's Gate Bridge	Taylor Way to Walley	West Vancouver - Howe Sound	Substructure maintenance of an epoxy pressure injection of approximately 36 feet of deep cracks in each of four pylons that support the main towers
✓2707	Glenfraser Overhead	Cache Creek Highway	Yale Lillooet	A 180' three span prestressed concrete stringer bridge consisting of one 78' main span and two approach spans of 51' each supported on a reinforced-concrete sub-structure and having a roadway width of 28'.

BRIDGES UNDER CONSTRUCTION OR IMPROVEMENT 1980-81

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No.	Name	Location	Electoral District	Type, Description of Work and Remarks
409	Bear River Bridge No. 1	Stewart Cassiar Highway No. 37A	Atlin	A 111m long continuous steel girder bridge with a concrete pier and abutments on steel piles and having a 9.75 m. roadway.
516	McLarry Bridge	Barkerville Highway	Cariboo	A 336' three span continuous prestressed concrete stringer bridge consisting of three 112' spans supported on concrete substructure and having a 32' Roadway.
2743	Davie Street Pedestrian O/P	Davie Street	Cariboo	A reinforced concrete footbridge with a 13m precast main span and two double helix approach ramps with reinforced concrete substructure.
2701	Courtenay River Bridge	17th Street	Comox	A 290 foot long bridge consisting of two prestressed concrete stringer spans and a steel bascule span, including piers, abutment, and counterweight chamber on steel H-piling. Roadway width is 55' with two 5' sidewalks.
1640	Nanoose Overhead Duplicate	Island Highway	Comox	A three span steel girder bridge 215' long with piers and abutments on steel H-piles, and modifications to an existing 5 span steel girder bridge 224' long. Roadway width is 30' with one 5' sidewalk.
2619	Westbridge Sidewalk	Kelowna Highway #33 Rock Creek	Grand Forks	Addition of a 4'-6" wide sidewalk to an existing 150' steel truss and construction of two reinforced concrete retaining walls 6' long.
2623	McPhee Bridge	Kimberley Highway	Kootenay	A 900' four span continuous twin steel trapeziodal box Girder bridge consisting of two 250' spans and two 200' spans supported on a reinforced concrete substructure and having a roadway width of 28'.
2616	Petitot River Bridge	Fort Nelson-Fort Simpson Highway	North Peace River	A 685', five span prestressed concrete stringer bridge, supported by two abutments on spread footings and four piers founded on steel H piling and having a 28' roadway.

No.	Name	Location	Electoral District	Type, Description of Work and Remarks
1534	Carnes Creek Bridge	Mica Highway	Shuswap-Revelstoke	A 225 m four-span continuous steel plate girder bridge consisting of two symmetrical cantilever spans, one 40m central suspended span and one 40 m end span supported on two reinforced-concrete abutments and three reinforced-concrete piers on prestressed pedestals excavated into rock and having a roadway width of 9.5 m.
1095	Bigmouth Creek Bridge	Revelstoke-Mica Highway	Shuswap-Revelstoke	A 90.35 m three span prestressed concrete stringer bridge consisting of one 30 m main span and two approach spans 30.1 m and 30.25 m supported on a reinforced-concrete substructure and having a roadway width of 9.5 m.
✓2697	LaForme Creek Bridge	Revelstoke-Mica Highway	Shuswap-Revelstoke	A 220 m continuous steel plate(curved) girder bridge consisting of two 63 m and two 47 m spans with a concrete deck, 9.5 m Roadway, and supported on reinforced concrete substructure.
✓1430	Mars Creek	Highway No. 23-Relocation	Shuswap-Revelstoke	A 174 m bridge consisting of seven structural steel spans of different lengths. Six of the spans including a 61m truss will be salvaged from the existing Holdich Creek Bridge and re-used. A new 45 m span has been added. The structure is supported on reinforced concrete piers and abutments with spread footings. The roadway width is 8.5 m.
1024	Lean-To Creek Bridge	Kalum Lake Road	Skeena	A 42.5 m long 3-span prestressed concrete box stringer bridge with 8.5 m wide deck and piers and abutments on spread footings.
6503	Kettle River Bridge	Monashee Highway No. 6	Vernon	A single span, prestressed concrete stringer bridge supported by reinforced concrete abutments on steel piles and having a 33' roadway.
221	Bridge of 23 Camels	Lillooet Access Road	Yale Lillooet	A 1,120' bridge consisting of two 160' spans simply supported and three (240'-320'-240') continuous welded steel spans with a 28' roadway and one 7 sidewalk. The substructure consists of four reinforced concrete abutments with riprap protection.

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No.	Name	Location	Electoral District	Type, Description of Work and Remarks
2665	Pavilion Overhead	Cache Creek Highway	Yale Lillooet	A 243' three span prestressed concrete stringer bridge consisting of three 81' spans supported on a reinforced concrete substructure and having a roadway width of 28'.

DOCK DESIGN, CONSTRUCTION, AND MAINTENANCE DESIGN

DESIGN

The following design works have been completed or are in progress:

A. BRITISH COLUMBIA FERRY CORPORATION

TFM-177—Langdale Ferry Termnal—Construction of new waiting room/office building. alternate design in progress.

TFM-188—Vesuvius Ferry Terminal—Expansion of existing approach road to alleviate problems with overflow parking. Alternate design in progress.

TFM-191—Village Bay Ferry Terminal—New second berth to accommodate expanded service to the Gulf Islands. Alternate design in progress.

TFM-192—Tsawwassen Ferry Terminal—Revision and additions to foot passenger walkways to connect Berth No. 3 to the existing walkway. Design in progress.

Revisions to traffic patterns, holding compound and buildings to accommodate double deck ferries, to allow simultaneous loading and unloading of ferries, and to reduce the walking distance for foot passengers. Design in progress.

TFM-198—Deas Maintenance Facility—Addition to existing machine shop. Design in progress.

TFM-210—Tsawwassen Ferry Terminal—Double level loading ramp and foot passenger loading tower for Berth No. 4. Design completed.

B. MINISTRY OF TRANSPORTATION AND HIGHWAYS PROJECTS

B.P.-1389—Blubber Bay Ferry Terminal—Revisions to approach road to loading ramp and enlarged parking area. Design completed.

B.P.-1391—Campbell River Ferry Terminal—Two new berths and enlarged holding compound.

Quathiaski Cove Ferry Terminal—Rebuilding of the berth to accommodate a larger ferry and a double lane loading ramp.

Nanaimo Ferry Terminal—Provision of new second berth plus enlarged holding compound. Design in progress.

Gabriola Ferry Terminal—Expansion to holding area and parking lots. Design in progress.

CONSTRUCTION

The following works have been completed or are in progress:

A. BRITISH COLUMBIA FERRY CORPORATION PROJECTS

TFM-141—Prince Rupert Ferry Terminal—A new berth at the existing terminal to eliminate sharing of existing Federal Government berth with State of Alaska ferries. Construction in progress.

TFM-143—Departure Bay Ferry Terminal—A new third berth, enlarged fill area, coffee shop/waiting room and foot passenger drop-off area. first phase (sheet pile wall and fill area) construction completed. Marine structure construction in progress.

TFM-187—Deas Maintenance Facility—Expansion of liferaft center. Construction completed.

TFM-189—Bella Bella Ferry Landing—Strengthening of existing wharf and additional dolphin to accommodate the M.V. *Queen of the North*. Construction completed.

TRM-192—Tsawwassen and TFM-194—Swartz Bay Ferry Terminals—Double level loading ramps for one berth at each of these terminals to accommodate new ferries. Construction in progress.

TFM-195—Skidegate Ferry Terminal—A new terminal complete with marine structures, holding compound, and buildings to accommodate new service to the Queen Charlotte Islands. Construction completed.

TFM-198—Deas Maintenance Facility—New paint shop and stores building. Construction in progress.

TFM-211—Departure Bay Ferry Terminal—Addition to catering stores building. Construction in progress.

B. MINISTRY OF TRANSPORTATION AND HIGHWAYS PROJECTS

B.P. 1384—Quathiaski Cove Ferry Terminal—Tie-up berth for second ferry on this route. Construction completed.

B.P. 1389—Blubber Bay Ferry Terminal—Replacement of ramp and pontoon with longer adjustable unit. Construction completed.

B.P. 1390—Balfour Ferry Terminal-Kootenay Lake—Replacement of berthing structures with new wingwalls and dolphin. Construction in progress by day labour.

B. 0562—Little River Ferry Terminal—Replacement of wingwalls and dredging of berth. Construction completed.

MAINTENANCE

In addition to the above operations numerous maintenance projects as well as normal maintenance operations were carried out at all British Columbia Ferry Corporation terminals and Ministry of Transportation and Highways Ferry Terminals under this jurisdiction.

REPORT OF DIRECTOR OF TRAFFIC ENGINEERING

H. F. COUPE

During the past year traffic activity again increased in the Province and the number of vehicles using British Columbia Highways was significantly higher than in the previous year. The Traffic Engineering Branch continued to co-operate with individuals and organizations in the associated fields of traffic safety, traffic planning, standardization of traffic control devices and traffic operations.

The Director of Traffic Engineering represented the Ministry on the British Columbia Safety Council, the St. John Ambulance Highway First Aid Committee, the Roads and Transportation Association Council on Uniform Traffic Control Delvices for Canada and the Roads and Transportation Association Committee on Traffic Operations.

Short duration annual traffic counts were taken with automatic equipment at approximately 710 locations throughout the Province. Traffic volumes are recorded continuously throughout the year at 26 additional locations and 12 of these recorders count traffic separately for each direction of travel. A further 174 automatic counts were taken for special purposes such as railway crossing, intersection and planning studies.

Punched tape traffic counters are used almost exclusively so that calculation of traffic count information can be done with data processing equipment. A translator machine located in the Ministry Computer Room is used to transfer information from punched tapes to computer cards.

In the summer of 1971, the Branch began to install electronic loop detection systems at regular short duration traffic count stations on high speed/high volume highways. The new detectors, replacing the rubber road tubes previously used, allow employees to set up counts on the shoulder without having to venture onto the travelled lanes. Over 960 "loops" have already been installed at approximately 310 count stations throughout the Province. The program will be continued this summer.

Summer daily traffic volumes for 1980 showed approximately 61,000 vehicles on First Narrows Bridge, 74,000 vehicles on Port Mann Bridge, 71,000 vehicles on Oak Street Bridge, 55,000 vehicles on Knight Street Bridge, 66,000 vehicles on Pattullo Bridge and 70,000 vehicles in the George Massey Tunnel. Data from the permanent count stations showed increases in 1980 over 1979 of approximately 4 per cent in the Souther Interior, 7 per cent on Vancouver Island, 4 per cent in the Lower Mainland and 6 per cent in the Northern Interior.

During the year, horizontal curves on almost 3,200 km of Provincial Highway were checked for the correct advisory speed. Where necessary it was recommended that appropriate curve and advisory speed tab sign assemblies be erected, revised or removed.

Numerous intersection problems were investigated during the year. Many vehicle turning movement counts were taken manually and designs prepared for improvements at approximately 30 intersections and median island projects. Improvements such as widening, channelization, signing and signal revisions were carried out at many of these intersections to give greater capacity, to reduce hazards and delay and to facilitate the flow of traffic. There has been a continuing increase in traffic problems referred to the Branch and in requests for signals, flashing beacons, crosswalks and overhead pedestrian crossings.

Many Highway design plans were reviewed to ensure that intersections and interchanges would function with as few operational and capacity problems as possible.

Six railway grade crossings were signalized in co-operation with the Canadian Transport Committee and the railways.

Changing conditions necessitated reviews of many speed limits throughout the Province. The Ministry obtained the opinions of police forces in many cases, and where necessary, travel speeds were checked with radar.

A new contra-flow lane system was designed for the George Massey Tunnel and was put into operation on January 28, 1981. This operation allows three lanes of traffic to proceed north through the Tunnel during the morning rush period while one lane is available for the much lighter southbound movement. This new system has successfully eliminated the long back-up of northbound vehicles waiting to go through the Tunnel which had existed during the 6:00 to 9:00 a.m. period on week days in recent years.

The work load in the Electrical Section increased again over last year with a total of 65 traffic signal installations. Flashing beacons were installed at six intersections.

A total of 2,000 lighting units was installed last year, all being the energy efficient sodium type. All new designs utilize the style of fixture, with the less efficient mercury fixture being restricted to replacement of existing fixtures.

The program of upgrading old obsolete traffic signal equipment was continued this year with replacement of 20 year old equipment with new second generation solid state traffic control equipment.

As part of the Massey Tunnel contra-flow operation an expanded electrical lane control system was designed. The system was divided into two zones, one outside the Tunnel and one inside the Tunnel. The outside system consists of a series of 24-inch fabricated signal heads over the contra-flow lane and the remaining regular southbound lane. Each head contains an incandescent matrix which displays a green arrow in the operating direction and a red cross in the opposing direction of traffic flow. Lane control inside the Tunnel utilizes the existing lane control supplemented by green arrow or red cross displays in the opposing direction.

The contra-flow operation lane control is supervised by the tower operator who controls the system from a pushbutton console located in the tower. Lighting levels for the contra-flow lane are increased during the operation.

REPORT OF DIRECTOR OF PLANNING BRANCH

D. R. PARKES

The Planning Branch continued its development and, with the announcement of the Annacis system, a separate staff unit was assembled to assist in the pre-engineering stages by explaining the project to local government and affected neighbourhoods, and responding to input from these sources.

The Investigation/Analysis Section was also upgraded and, with the assistance from the British Columbia Systems Corporation, a data management and analysis system is now being developed to provide speedy access to travel information.

The other functions also showed increasing activities.

Highways Planning Section

The primary function of this section is to develop comprehensive road transportation network plans, strategies and functional layouts in order to provide for short and long term solutions to transportation problems for metropolitan, urban, regional and rural areas. This work was continued from the previous year in 37 communities and a further 25 were initiated during 1980. By the end of 1980, technical agreement and, in most cases, municipal council and regional board endorsements had been achieved in 36 network studies.

The purpose of these studies is to identify the physical and land use limitations for transportation corridors prior to urban development and redevelopment so that feasible, effective and widely-accepted corridors can be protected and acquired, and facilities built at minimum cost and with the least possible disruption to communities. Local jurisdictions were encouraged to adopt these network strategies as the transportation component of their official community plans and offical settlement plans. The strategies are an important element in the assessment of applications from municipalities seeking provincial cost-sharing funds, under either the *Revenue Sharing Act* or the Secondary Highway Program. This planning work also provides guidance to the approving officers from both the municipal and Provincial levels and gives a framework for decisions concerning zoning, subdivisions, access, and the traffic impacts and internal layout of major land developments. This year, several major functional corridor studies were undertaken by the Transportation Section in the Greater Vancouver area. These projects were in response to increased pressure on bridgeheads, the special Government initiative on the Annacis System and the change to the *Highway Act* to include the cities of Vancouver and New Westminster.

A sample of these special projects is as follows:

1. *Second Narrows Bridge*
   a. North approaches include:
      i Capilano College Access
      ii Lower Level Route
      iii Mountain Highway Interchange and connections to Brooksbank Avenue
      iv Seymour Parkway–Keith Road Link
   b. South approaches include:
      i Cassiar Project
      ii Hastings Street connections
      iii Wall Street connections
      iv Pacific National Exhibition Grounds access
2. *Annacis System*
   a. North approaches include:
      i Annacis Island access
      ii Ewen Avenue replacement
      iii Westminster Highway corridor

iv Queensborough north bridgehead
v Marine Way connector

b. South approaches include:
i Access to Delta
ii Access to Surrey
iii Access to Highway 10
iv Access to Highway 99

The balance of the work relates to the Section's role as technical resource on a wide range of transportation-related planning matters through participation on inter-Branch, inter-Ministerial and inter-agency committees and task forces.

Annacis System Section

Due to the regional development patterns and increasing economic activity, travel demands across the Fraser River have grown to exceed the capacity of the existing river crossings. To relieve congestion on the existing river crossings and to effectively meet future requirements, final planning, design and construction of the Annacis System is underway.

The Annacis System will be a four-lane, 60 km/h facility interconnecting the arterial road systems north and south of the main arm of the Fraser River. The design will provide for expansion to accommodate future travel growth either by the addition of two road lanes or by public transit provisions including light rail transit. The 14 km highway will be located to minimize environmental and community effects, consistence with approriate design standards, project costs, and regional mobility requirements. The main bridge crossing will be a 440 m cable-stayed bridge, the first of this design in Western Canada. In addition, a low level bridge across Annacis Channel will be built and the present bridge access to Annacis Island will be replaced with a moveable type bridge.

Since the February 22, 1980 announcement, work on the bridge-highway alignment and considerations of connecting roads has dominated liaison with affected municipalities, agencies, landowners, and the general public. As a result of this interaction, approximately 70 per cent of the route alignment has been revised.

Preliminary soils investigation work has been completed and a geotechnical consultant has commence design work of the main span foundations.

Hydraulic model testing is currently underway. Mapping for road design purposes is progressing and actual road design work will commence in the Spring of 1981.

Structural engineering consultant assignments have been awarded for the design and construction supervision of the Fraser River main bridge and for the Annacis Channel moveable bridge. The main bridge will be designed in both steel and concrete to permit a full economic comparison.

The Ministry's Property Services Branch is currently evaluating the recommended alignment property requirements in all three municipalities directly affected. Negotiations are progressing on a number of properties where the alignment has been confirmed.

Construction work has commenced on the relocation of a B.C. Hydro gas pipeline to accommodate the Annacis System. A contract has been awarded for the dredging and stockpiling of 1.3 million cubic meters of Fraser River sand. All required regulatory approvals have been received for the dredging, stockpiling and preparation of the stockpile sites has been completed.

Investigation/Analysis Section

In 1980, the Investigation/Analysis Group which was established in 1979, continued the collection of travel information as well as implementing a number of systems to streamline the processing and dissemination of travel data. A computer system for analyzing automatic volumes is now in operation including an information retrieval capability to respond to user requests.

Development continued on the roadside interview information system, providing analysis of traveller origins, destinations and travel purposes. Preliminary results from this system were becoming available at the year-end, supporting limited modelling of intercity highway links. Also, during 1980, a computerized Travel Survey Inventory system was installed to track travel studies through their processing cycle and to provide information retrieval. This has substantially reduced response time for user requests for travel data.

New travel data collection continued in 1980, including the following:

1. Licence plates surveys were conducted in 21 areas, requiring 258 person-days or 25 per cent of survey effort. These studies provide valuable information on travel routes and travel times in local areas without requiring any intervention in the normal flow of traffic.
2. Screenline-occupancy counts to monitor urban travel trends in vehicle occupancy, peak hour person flows, and the role of transit were allocated 236 person-days or 23 per cent of the program.
3. Counts of vehicle movements at intersections were made in 19 communities for a total of 206 person-days (20 per cent). These counts are used in intersection capacity calculations which assist in setting priorities for improvements such as traffic control or new laning.
4. Roadside interviews were conducted at four key sites, requiring 84 person-days or 8 per cent of the survey program. These studies permit forecasting of travel patterns in the event of changes to the intercity network or socio-economic changes and allow monitoring of the level of recreational or tourist travel.

Municipal Programs Section

The year 1980 saw a continuation of the Secondary Highway Program, the Roads Section of the Revenue Sharing Act Program and the Urban-Arterial Highway Program all coordinated through the Municipal Programs Section of the Planning Branch. The Ministry approved the amounts of $2,477,335 for construction and $270,909 for maintenance works carried out on 331 kilometres of secondary highways this year. Examination was undertaken and recommendations made to the Ministry of Municipal Affairs regarding 210 applications received under the Roads Section of the *Revenue Sharing Act* and for which $15 million in grants were subsequently made. Negotiations were carried out with 22 municipalities concerning cost sharing work on urban street renewal. A large number of changes in classification were considered with 42 arterial highways being rescinded and 52 new arterials being established. Eleven secondary highways being rescinded and six were established. Our comments and recommendations concerning proposed boundary extensions, restructures and new incorporations for 35 municipalities were forwarded to the Ministry of Municipal Affairs.

Systems Planning Section

The photolog operation was enhanced by the addition of an instrument to record vehicle cross-slope. Approximately 15,000 kilometres of major roads were filmed. In addition to regular use by the Systems Planning staff the photolog was used on 224 occasions by members of 11 Branches as well as the Executive. Data processing operations increased very substantially, and new systems included a start on a data entry network linking all Regions and Districts to the Headquarters computing facility. Other major systems were developed and introduced for the Design and Surveys Branch, Highway Safety Branch, Equipment Management Branch, Financial Services Branch, as well as the Planning Branch.

The annual distribution of the computerized inventory report to Regions, Districts, Branches and R.C.M.P. detachments was made. Additional requests were received from a number of other agencies including, for example, libraries, trucking companies and trade unions. Unfortunately, this work and work on pavement condition ratings has been severely restricted due to lack of staff.

A start was made on the engineering analysis of the rural road network, including calculations of capacity, levels of service, pavement roughness, roadway geometrics and traffic operating characteristics. Approximately 750 kilometres of highway have been analyzed to date. Reports on overall network conditions and deficiencies will be made within two years.

Approving Section

The approval of subdivision applications and the approval of applications for access onto controlled access highways are administered by the Ministry's regional offices in Nanaimo, Burnaby, Nelson, Kamloops, Prince George and Terrace. The retirement of the Senior Approving Officer from the Victoria Headquarters has resulted in a transfer of Island Trust and Saanich Highways District referrals to the Nanaimo Approving Office.

The offices approved the following applications:

Subdivisions	3,179
Controlled Access Permits	505
Ordinary Driveway Permits	6,311
Zoning Bylaws Approved	1,163
Other Permits	4,777

CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

STATEMENT SHOWING HIGHWAYS CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
ABBOTSFORD (D)*	5R	Essendene Ave. & Huntington-Mission Hwy. (West Railway Street)	Arterial	0.80 Km.	----- Km.
	11R	Huntington-Mission Hwy.	Arterial	0.53	-----
	336R	McCallum Road (East Side)	Arterial	0.37	-----
	342R	McCallum Road (East Side)	Arterial	1.59	-----
	381R	Trans-Canada Hwy. & Interchanges	Arterial	27.12	-----
	402R	Trans-Canada Hwy.	Arterial	2.01	-----
	403R	Huntington-Mission Hwy.	Arterial	4.70	-----
	202B	No. 3 Road	Secondary	-----	3.06
ALERT BAY (V)	647R	Fir Street	Arterial	2.76	-----
ARMSTRONG (C)	270R	Vernon-Sicamous Hwy.	Arterial	0.84	-----
	33B	Armstrong-Salmon Arm Rd.	Secondary	-----	1.45
	272B	Pleasant Valley Rd. & Smith Dr.	Secondary	-----	2.82
ASHCROFT (V)	580R	Ashcroft-Cache Ck. Hwy., 1st St., Barnes Ave. & Highland Valley Rd.	Arterial	4.26	-----
BELCARRA (V)		NIL			
BURNABY (D)	1R	Kingsway	Arterial	6.79	-----
	17R	Lougheed Hwy.	Arterial	9.90	-----
	135R	Canada Way (Grandview-Douglas Hwy.)	Arterial	4.14	-----
	272R	Tenth Ave. (north half)	Arterial	2.01	-----
	293R	Barnet Hwy.	Arterial	10.27	-----
	376R	Trans-Canada Hwy. & Interchanges	Arterial	22.90	-----
	414R	Simon Fraser University Access Hwy.	Arterial	3.41	-----
	415R	Simon Fraser University Curtis Extension Rd.	Arterial	0.10	-----
	618R	Grandview Hwy. (Clydesdale)	Arterial	0.09	-----
	663R	Gaglardi Way	Arterial	0.96	-----
	664R	Marine Way	Arterial	3.11	-----
	14B	North Road (west half)	Secondary	-----	2.25
	22B	Marine Drive	Secondary	-----	5.31
BURNS LAKE (V)	297R	Burns Lake-Francois Lk. Rd.	Arterial	0.50	-----
	298R	Burns Lake-Babine Road	Arterial	0.85	-----
	610R	Yellowhead Hwy.	Arterial	22.00	-----
CACHE CREEK (V)	569R	Cariboo Hwy.	Arterial	0.82	-----
	643R	Trans-Canada Hwy.	Arterial	5.85	-----

*Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

STATEMENT SHOWING HIGHWAYS CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
CAMPBELL RIVER (D)*	394R	Island Highway	Arterial	4.25 Km.	----- Km.
	395R	Campbell River-Gold River Highway	Arterial	5.71	-----
	575R	Island Highway (via Discovery Crescent)	Arterial	16.56	-----
	188B	Brewster Lake Road	Secondary	-----	3.06
CASTLEGAR (C)	452R	Southern Trans-Provincial Hwy.	Arterial	2.86	-----
	626R	Columbia Avenue	Arterial	6.08	-----
	261B	Columbia Avenue	Secondary	-----	3.91
CENTRAL SAANICH (D)	170R	West Saanich Road	Arterial	7.32	-----
	172R	Verdier Avenue	Arterial	1.24	-----
	213R	Patricia Bay Highway	Arterial	6.92	-----
	121B	Keating Cross Road	Secondary	-----	3.22
	216B	Island View Rd., Saanich Cross Rd. & Central Saanich Rd.	Secondary	-----	1.06
CHASE (V)	500R	Trans-Canada Hwy.	Arterial	1.61	-----
	229B	Old Trans-Canada Hwy. (Chase Business Route)	Secondary	-----	2.74
	282B	Pine Street	Secondary	-----	0.95
CHETWYND (V)	428R	Chetwynd-Hudson Hope Hwy.	Arterial	1.40	-----
	675R	John Hart-Peace River Hwy.	Arterial	3.83	-----
CHILLIWACK (D)	8R	Yale Road West	Arterial	10.35	-----
	260R	Chilliwack Lake Road	Arterial	1.24	-----
	344R	Trans-Canada Hwy.	Arterial	24.65	-----
	345R	Vedder Road and Yale Road West	Arterial	2.93	-----
	62B	Vedder Road	Secondary	-----	5.25
	106B	Cultus Lake Road	Secondary	-----	0.80
	174B	Yale Road East	Secondary	-----	11.97
	277B	Vedder Mtn. Rd., Yarrow Central Rd. & Dyke Road	Secondary	-----	8.14
	280B	Yale Road, Cheam Ave., Hope St., First Ave., & Broadway St.	Secondary	-----	2.16
	281B	First Ave. & Broadway St.,	Secondary	-----	1.04
CLINTON (V)	387R	Cariboo Highway	Arterial	2.06	-----
	391R	Pavilion-Clinton Road	Arterial	0.55	-----
COLDSTREAM (D)	103R	Vernon-Slocan Hwy.	Arterial	14.48	-----
	516R	Okanagan Hwy.	Arterial	1.69	-----
COMOX (T)	257B	Comox Ave., Stewart St., Balmoral Ave. & Port Augusta St.	Secondary	-----	2.41
	243B	Comox Ave. & Anderton Rd.	Secondary	-----	2.53

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CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

STATEMENT SHOWING HIGHWAYS CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
COQUITLAM (D)*	167R	Brunette Street	Arterial	0.64 Km.	----- Km.
	553R	Trans-Canada Hwy. & Interchanges	Arterial	11.67	-----
	566R	Lougheed Hwy.	Arterial	11.76	-----
	578R	Barnet Hwy.	Arterial	1.93	-----
	14B	North Road (east half)	Secondary	-----	2.25
	115B	Clarke Road	Secondary	-----	1.69
COURTENAY (C)	153R	Comox Road	Arterial	1.71	-----
	653R	Island Highway	Arterial	4.31	-----
	654R	Ryan Road	Arterial	2.72	-----
	222B	Eighth St., Fitzgerald Ave. & Fifth Street	Secondary	-----	0.88
	223B	Cumberland Road	Secondary	-----	1.74
CRANBROOK (C)	628R	Southern Trans-Provincial Hwy.	Arterial	6.07	-----
CRESTON (T)	369R	Southern Trans-Provincial Hwy.	Arterial	2.70	-----
	275B	Erickson St. 17th Ave. & 16th Ave.	Secondary	-----	2.03
CUMBERLAND (V)	266B	Courtenay-Cumberland Rd. (Fourth St. & Cumberland Rd.)	Secondary	-----	1.52
	274B	Royston Rd.-Dunsmuir Ave.-Suttons Rd.	Secondary	-----	2.33
DAWSON CREEK (C)	257R	John Hart-Peace River Hwy.	Arterial	0.61	-----
	363R	Alaska Hwy., Alaska Ave. & Dawson Ck.-Spirit R. Hwy.	Arterial	5.18	-----
	364R	Dawson Ck.-Tupper Hwy. (Eighth St.)	Arterial	2.30	-----
	196B	Eighth St.	Secondary	-----	1.72
	268B	17th St.	Secondary	-----	1.43
DELTA (D)	349R	Tsawwassen Hwy.	Arterial	10.35	-----
	350R	Point Roberts Hwy.	Arterial	4.57	-----
	352R	Scott Road (west side)	Arterial	7.92	-----
	353R	Vancouver-Blaine Hwy.	Arterial	14.76	-----
	530R	Roberts Bank Road	Arterial	5.31	-----
	685R	Ladner-Langley Hwy.	Arterial	13.26	-----
	712R	Annacis Island Hwy.	Arterial	2.71	-----
DUNCAN (C)	281R	Trans-Canada Hwy.	Arterial	1.21	-----
	282R	Trunk Rd. & Government St.	Arterial	2.01	-----
	119B	Tzouhalem Rd.	Secondary	-----	1.09
ELKFORD (V)	625R	Elk Valley Rd.	Arterial	4.83	-----

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CLASSIFICATION OF HIGHWAYS

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STATEMENT SHOWING HIGHWAY CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
ENDERBY (C)*	36R	Vernon-Sicamous Hwy.	Arterial	1.79 Km.	----- Km.
	125B	Cliff Street	Secondary	-----	0.26
ESQUIMALT (D)	472R	Craigflower Road	Arterial	2.65	-----
	246B	Tillicum Road	Secondary	-----	0.53
FERNIE (C)	646R	Southern Trans-Provincial Hwy.	Arterial	3.80	-----
FORT NELSON (V)		NIL			
FORT ST. JAMES (V)	254R	Vanderhoof-Stuart Lake Hwy. (Douglas Ave. & Stuart Dr. W) & Germansen Landing Rd.	Arterial	2.73	-----
	680R	Lakeshore Dr. & Resort Hill Rd.	Arterial	1.45	-----
FORT ST. JOHN (C)	279R	100 St. (MacKenzie St.)	Arterial	3.43	-----
	658R	100 Ave. (Centre Ave.)	Arterial	3.20	-----
	682R	Alaska Highway	Arterial	4.41	-----
FRASER LAKE (V)	446R	Yellowhead Hwy.	Arterial	2.48	-----
FRUITVALE (V)	202R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	2.98	-----
	129B	Columbia Gardens Rd.	Secondary	-----	1.29
GIBSONS (V)	606R	Sunshine Coast Hwy.	Arterial	2.99	-----
	226B	Gower Point Road	Secondary	-----	1.95
	227B	North Road	Secondary	-----	0.80
GOLDEN (T)	604R	Trans-Canada Hwy.	Arterial	4.07	-----
	639R	Kootenay-Columbia Hwy. (Golden Bypass)	Arterial	3.40	-----
	645R	Kootenay-Columbia Hwy.	Arterial	2.56	-----
GOLD RIVER (V)	677R	Muchalat Drive	Arterial	3.71	-----
	678R	Gold River Road	Arterial	1.16	-----
GRAND FORKS (C)	464R	Southern Trans-Provincial Hwy.	Arterial	4.80	-----
GRANISLE (V)	527R	Granisle Arterial	Arterial	1.45	-----

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GREENWOOD (C)*	619R	Southern Trans-Provincial Hwy.	Arterial	3.38 Km.	----- Km.
HARRISON HOT SPRINGS (V)	161R	Harrison Hot Springs Road and Lillooet Avenue	Arterial	4.25	-----
HAZELTON (V)	590R	Hazelton Arterial	Arterial	2.40	-----
	597R	Hazelton Access Road	Arterial	1.50	-----
	705R	River Rd. Omineca St. Government St., Hankin St. & Field St.	Arterial	1.10	-----
HOPE (T)	179R	Southern Trans-Provincial Hwy.	Arterial	2.65	-----
	180R	Trans-Canada Hwy.	Arterial	1.69	-----
	159B	Kawkawa Lake Road	Secondary	-----	0.51
	160B	Sixth Avenue	Secondary	-----	0.21
HOUSTON (D)	620R	Yellowhead Hwy.	Arterial	13.39	-----
HUDSON'S HOPE (D)	520R	Peace River Canyon Road	Arterial	23.82	-----
	521R	Chetwynd-Hudson Hope-Charlie Lake Hwy.	Arterial	38.70	-----
	252B	Beryl Prairie Road	Secondary	-----	12.47
INVERMERE (V)	674R	13th. Ave., 13th. St., 7th. Ave., 5A St., 7th. St., & 3rd Ave.	Arterial	2.69	-----
KASLO (V)	450R	Balfour-Kaslo-Galena Bay Hwy. & Kaslo-New Denver Hwy.	Arterial	2.99	-----
	473R	Balfour-Kaslo-Galena Bay Hwy.	Arterial	1.19	-----
KAMLOOPS (C)	694R	Trans-Canada Hwy.	Arterial	32.72	-----
	695R	Yellowhead South Hwy.	Arterial	24.35	-----
	696R	Princeton-Kamloops Hwy.	Arterial	5.67	
KELOWNA (C)	469R	Okanagan Hwy.	Arterial	6.28	-----
KENT (D)	160R	Harrison Hot Springs Road	Arterial	3.81	-----
	290R	Rockwell Drive	Arterial	6.44	-----
	545R	Agassiz Bypass	Arterial	2.74	-----
	588R	Lougheed Hwy.	Arterial	33.50	-----
	614R	Agassiz-Rosedale Hwy.	Arterial	4.59	-----
KEREMEOS (V)	438R	Southern Trans-Provincial Hwy.	Arterial	2.00	-----
	439R	Keremeos-Kaleden Junction	Arterial	0.82	-----
KIMBERLEY (C)	557R	St. Mary's Lake Road	Arterial	4.02	-----
	558R	Cranbrook-Kimberley-Wasa Hwy.	Arterial	9.49	-----

*Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

STATEMENT SHOWING HIGHWAYS CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
KITIMAT (D)*	277R	Terrace-Kitimat Hwy.	Arterial	6.84 Km.	----- Km.
	503R	Road to Industrial Area	Arterial	2.90	-----
LADYSMITH (T)	577R	Trans-Canada Hwy.	Arterial	5.07	-----
	176B	Chemainus Road	Secondary	-----	1.45
LAKE COWICHAN (V)	679R	South Shore Road & Lake Cowichan Road	Arterial	2.48	-----
LANGLEY (C)	263R	Fraser Hwy.	Arterial	4.83	-----
	576R	200th St. (Carvolth Rd.)	Arterial	0.11	-----
	665R	Langley Bypass	Arterial	1.27	-----
	700R	Ladner-Langley Hwy.	Arterial	2.64	-----
	256B	200th St. (Carvolth Rd.)	Secondary	-----	3.22
LANGLEY (D)	77R	Aldergrove-Bellingham Hwy.	Arterial	6.50	-----
	259R	Ladner-Langley Hwy. & Glover Rd.	Arterial	9.66	-----
	262R	Fraser Hwy.	Arterial	17.70	-----
	368R	County Line Rd. (Aldergrove-Bellingham Hwy.)	Arterial	4.34	-----
	380R	Trans-Canada Hwy. & Interchanges	Arterial	32.86	-----
	445R	200th St. (Carvolth Rd.)	Arterial	5.02	-----
	457R	Ladner-Langley Hwy.	Arterial	2.78	-----
LILLOOET (V)	513R	Lillooet-Cache Ck. Rd. Main St., Main St. S., Lillooet-Seton Lk. Rd.	Arterial	4.01	-----
	635R	Lytton-Lillooet Hwy.	Arterial	705.49 m.	-----
	636R	Lillooet-Pioneer Road	Arterial	489.11 m.	-----
	662R	Nugget Road	Arterial	930.00 m.	-----
LIONS BAY (V)	518R	Garibaldi Hwy.	Arterial	2.59	-----
LOGAN LAKE (V)	641R	Meadow Creek Road	Arterial	3.73	-----
	642R	Mamit Lake Road	Arterial	0.25	-----
LUMBY (V)	567R	Vernon-Slocan Hwy.	Arterial	2.78	-----
	279B	Shuswap Ave.	Secondary	-----	2.66
LYTTON (V)	108R	Lytton-Lillooet Hwy. (Sixth & Fraser Streets)	Arterial	0.45	-----
	478R	Trans-Canada Hwy.	Arterial	1.21	-----
	479R	Lytton S. Approach & Main St.	Arterial	1.45	-----

*Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

STATEMENT SHOWING HIGHWAYS CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
MCBRIDE (V)*	526R	Yellowhead Highway	Arterial	1.19 km.	----- km.
	236B	First Ave. & Main St.	Secondary	-----	1.25
MACKENZIE (D)	436R	MacKenzie Hwy. & Parsnip River Rd.	Arterial	20.44	-----
MAPLE RIDGE (D)	22R	Lougheed Hwy.	Arterial	20.05	-----
	407R	River Rd. & 17th Ave.	Arterial	0.39	-----
	689R	222nd St. & River Rd.	Arterial	2.54	-----
	253B	Dewdney Trunk Rd. & 224th St.	Secondary	-----	17.94
	254B	232nd St. & Fern Crescent	Secondary	-----	6.44
MASSET (V)	494R	Harrison Ave., Delkatla St., Hodges Ave., Delkatla Causeway, Shore Rd. & Queen Charlotte City-Masset Road	Arterial	4.59	-----
	640R	Tow Hill Road	Arterial	7.72	-----
MATSQUI(D)	337R	McCallum Rd. (West side)	Arterial	1.91	-----
	356R	Trans-Canada Hwy.	Arterial	13.82	-----
	422R	Fraser Hwy.	Arterial	5.79	-----
	671R	Huntingdon-Mission Hwy.	Arterial	8.23	-----
	186B	South Fraser Way	Secondary	-----	4.26
MERRITT (C)	73R	Merritt-Spences Bridge Hwy.	Arterial	1.61	-----
	708R	Princeton-Kamloops Hwy.	Arterial	4.26	-----
MIDWAY (V)	458R	Southern Trans-Provincial Hwy.	Arterial	7.21	-----
	459R	Midway-U.S. Customs Rd.	Arterial	1.98	-----
MISSION (D)	23R	Lougheed Highway	Arterial	14.64	-----
	25R	Lougheed Hwy. (1st. Ave.)	Arterial	2.25	-----
	563R	Huntingdon-Mission Hwy.	Arterial	2.38	-----
	605R	Lougheed Hwy. (North Railway Ave.)	Arterial	2.08	-----
	672R	Huntingdon-Mission Hwy. (North-west Approach)	Arterial	2.08	-----
	77B	Dewdney Trunk Road	Secondary	-----	24.94
	260B	Shook Road	Secondary	-----	0.72
	283B	Grand St., Seventh Ave. & Cedar St.	Secondary	-----	5.15
MONTROSE (V)	246R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	1.61	-----
NAKUSP (V)	484R	Vernon-Slocan Hwy., Nelson Ave. & Broadway St.	Arterial	1.87	-----
	540R	Nakusp-Mica Ck. Hwy. (Broadway St., 6th Ave. W. & Canyon Rd.)	Arterial	3.89	-----

*Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

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CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

STATEMENT SHOWING HIGHWAYS CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
NANAIMO (C)*	355R	Brechin Road	Arterial	1.05 km.	----- km.
	687R	Trans-Canada Hwy.	Arterial	10.44	-----
	688R	Island Hwy.	Arterial	11.35	-----
	221B	Esplanade & Front St.	Secondary	-----	0.56
NELSON (C)	559R	Castlegar-Nelson-Creston Hwy.	Arterial	4.99	-----
	560R	Nelson-Nelway Hwy.	Arterial	2.30	-----
NEW DENVER (V)	88R	Vernon-Slocan Hwy.	Arterial	1.46	-----
	291R	Kaslo-New Denver Hwy. (Sixth Ave. & Victoria St.)	Arterial	0.71	-----
NEW HAZELTON (D)	709R	Yellowhead Hwy.	Arterial	7.00	-----
	710R	New Hazelton Hi-Level Rd.	Arterial	0.60	-----
NEW WESTMINSTER (C)		NIL			
NORTH COWICHAN (D)	168R	Trans-Canada Hwy.	Arterial	19.47	-----
	248R	Mt. Sicker Rd., Chemainus Rd., Crofton Rd. & Chaplin Rd.	Arterial	6.76	-----
	249R	Cowichan Lake Road	Arterial	5.31	-----
	482R	Cowichan Valley Hwy.	Arterial	5.57	-----
	36B	Maple Bay Road	Secondary	-----	6.84
	169B	Chemainus Road	Secondary	-----	7.88
	269B	Oak Street	Secondary	-----	0.97
NORTH SAANICH (D)	411R	West Saanich Rd.	Arterial	9.01	-----
	412R	Wains Road	Arterial	2.41	-----
	416R	Lochside Drive	Arterial	0.71	-----
	453R	Patricia Bay Hwy.	Arterial	6.39	-----
	510R	Dolphin Rd. & Swartz Bay Rd.	Arterial	0.48	-----
	585R	Canora Road	Arterial	0.97	-----
	193B	McTavish Road	Secondary	-----	3.54
NORTH VANCOUVER (C)	612R	Trans-Canada Hwy. & Interchanges	Arterial	4.81	-----
NORTH VANCOUVER (D)	157R	Main St., Dollarton Hwy., and Deep Cove Road	Arterial	9.19	-----
	611R	Trans-Canada Hwy. & Interchanges	Arterial	12.31	-----
	199B	Riverside Dr. & Mount Seymour Parkway	Secondary	-----	3.83

*Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

STATEMENT SHOWING HIGHWAYS CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
OAK BAY (D)*	162B	Cadboro Bay Road	Secondary	----- km.	3.38 km.
	197B	Cedar Hill Cross Rd. & Gordon Head Road	Secondary	-----	2.62
OLIVER (V)	441R	Okanagan Hwy. (First Ave.)	Arterial	1.77	-----
	212B	Seventh St. & McKinney Rd.	Secondary	-----	1.06
100 MILE HOUSE (V)	608R	Cariboo Hwy.	Arterial	2.40	-----
	714R	Exeter Truck Route & Exeter Station Rd.	Arterial	1.23	-----
	271B	Horse Lake Road	Secondary	-----	0.85
OSOYOOS (V)	656R	Southern Trans-Provincial Hwy.	Arterial	5.53	-----
	657R	Okanagan Hwy.	Arterial	1.60	-----
	264B	Eighty-Ninth St. & Sixty-Fourth Avenue	Secondary	-----	1.48
PARKSVILLE (T)	177R	Parksville-Port Alberni-Tofino Hwy.	Arterial	1.22	-----
	706R	Island Highway	Arterial	3.67	-----
	707R	Parksville Bypass	Arterial	1.10	-----
PEACHLAND (D)	367R	Okanagan Highway	Arterial	11.27	-----
	633R	Princeton Avenue	Arterial	5.31	-----
PEMBERTON (V)	420R	Pemberton Portage Road	Arterial	1.34	-----
	609R	Garibaldi Highway	Arterial	1.19	-----
	644R	Pemberton Meadows Road	Arterial	950 m.	-----
PENTICTON (C)	634R	Okanagan Hwy.	Arterial	8.46	-----
	638R	Martin St.	Arterial	1.10	-----
	650R	Penticton Channel Parkway	Arterial	6.24	-----
	135B	Penticton-Naramata Road	Secondary	-----	8.85
	273B	South Main St. & Lakeside Drive	Secondary	-----	6.18
PITT MEADOWS (D)	21R	Lougheed Highway	Arterial	5.20	-----
	74B	Harris Road	Secondary	-----	2.74
	75B	Hammond Road	Secondary	-----	1.45
	78B	Harris Road	Secondary	-----	3.06
	79B	McNeil Road	Secondary	-----	3.22
	92B	Old Dewdney Trunk Road	Secondary	-----	5.63
PORT ALBERNI (C)	33R	Parksville-Port Alberni-Tofino Hwy.	Arterial	2.90	-----
	152R	Parksville-Port Alberni-Tofino Hwy. (River Road)	Arterial	2.57	-----
	39B	Beaver Creek Road	Secondary	-----	0.69

*Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

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CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

STATEMENT SHOWING HIGHWAYS CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
PORT ALICE (V)*	637R	Jeune Landing-Port Alice Millsite Road	Arterial	7.40 km.	----- km.
PORT CLEMENTS (V)	600R	Queen Charlotte City-Masset Road	Arterial	0.48	-----
	690R	Cedar Ave., Jasper St.. Bayview Dr., Bayview Crescent & Juskatla Bay Rd.	Arterial	2.30	-----
PORT COQUITLAM (C)	594R	Lougheed Hwy.	Arterial	5.23	-----
	673R	Mary Hill Bypass	Arterial	2.42	-----
	288B	Pitt River Rd., McLean Ave. & Kingsway Ave.	Secondary	-----	3.96
PORT EDWARD (V)	599R	Port Edward-Cassiar Cannery Rd.	Arterial	14.24	-----
	686R	Yellowhead Highway	Arterial	27.00	-----
PORT HARDY (D)	504R	Hardy Bay Road	Arterial	3.96	-----
	506R	Island Highway	Arterial	2.29	-----
	621R	Byng Road	Arterial	3.03	-----
	713R	Island Highway	Arterial	9.40	-----
	240B	Airport Road	Secondary	-----	2.67
PORT MCNEILL (V)	507R	Campbell Way	Arterial	1.93	-----
PORT MOODY (C)	200R	Barnet Highway	Arterial	6.32	-----
	632R	Ioco-Port Moody Rd. & Knowle Drive	Arterial	4.25	-----
	116B	Clarke Road	Secondary	-----	1.29
	265B	Knowle Drive	Secondary	-----	2.21
POUCE COUPE (V)	602R	Dawson Creek-Tupper Hwy.	Arterial	1.43	-----
POWELL RIVER (D)	603R	Sunshine Coast Highway (Marine Ave., Ash Ave., Poplar St., Arbutus Ave. & Lund St.)	Arterial	14.48	-----
	397R	Wharf Street	Arterial	0.14	-----
	143B	Duncan Street	Secondary	-----	2.74
PRINCE GEORGE (C)	697R	Yellowhead Highway	Arterial	26.38	-----
	698R	Cariboo Hwy. & John Hart-Peace River Hwy.	Arterial	27.75	-----
	699R	Aitcheson Rd. & Airport Rd.	Arterial	3.75	-----
PRINCE RUPERT (C)	487R	Co-op Rd. Park Ave., Second Ave., McBride St. & Yellowhead Highway	Arterial	15.05	-----

*Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

STATEMENT SHOWING HIGHWAYS CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
PRINCETON (T)*	586R	Princeton-Kamloops Hwy.	Arterial	2.11 km.	----- km.
	587R	Tulameen Road	Arterial	2.99	-----
	589R	Southern Trans-Provincial Hwy.	Arterial	3.54	-----
	203B	Bridge Street	Secondary	-----	0.64
QUALICUM BEACH (V)	94R	Island Highway	Arterial	5.25	-----
	154R	Alberni Road, Second Ave. & Memorial Ave.	Arterial	2.57	-----
	435R	Island Hwy. (Qualicum Beach Diversion)	Arterial	2.56	-----
QUESNEL (C)	533R	Ewing St. & Fraser River Bridge	Arterial	0.39	-----
	591R	Elliott St. & Blackwater Rd.	Arterial	2.04	-----
	592R	Anderson Dr., Marsh Dr., Moffat Bridge & Approaches	Arterial	3.56	-----
	702R	Cariboo Highway	Arterial	7.72	-----
	703R	Barkerville Highway	Arterial	0.15	-----
REVELSTOKE (C)	400R	Trans-Canada Hwy.	Arterial	1.61	-----
	401R	Nakusp-Mica Creek Hwy.	Arterial	4.35	-----
	163B	Victoria Rd., Railway Ave., & Fourth St.	Secondary	-----	2.17
RICHMOND	295R	Sea Island Highway	Arterial	1.50	-----
	301R	Vancouver-Blaine Hwy.	Arterial	10.03	-----
	343R	Westminster Hwy.	Arterial	10.38	-----
	564R	Knight St.	Arterial	7.11	-----
	234B	No. 3 Rd. & Bridgeport Rd.	Secondary	-----	3.70
ROSSLAND (C)	418R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	1.69	-----
	622R	Rossland-Paterson Hwy. & Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	4.02	-----
SAANICH (D)	529R	West Saanich Rd. & Royal Oak Drive	Arterial	8.93	-----
	538R	Trans-Canada Hwy.	Arterial	4.38	-----
	660R	Patricia Bay Highway	Arterial	14.55	-----
	661R	Trans-Canada Hwy.-Patricia Bay Highway Connector	Arterial	0.85	-----
	681R	McKenzie Ave.	Arterial	2.08	-----
	148B	Tillicum Road	Secondary	-----	0.14
	154B	Gorge Road	Secondary	-----	2.74
	237B	Quadra Street	Secondary	-----	4.99
	238B	West Saanich Rd.	Secondary	-----	1.21
SALMO (V)	668R	Southern Trans-Provincial Hwy.	Arterial	1.05	-----
	669R	Nelson-Nelway Hwy.	Arterial	1.02	-----
	670R	Fourth Street	Arterial	0.58	-----

*Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

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CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

STATEMENT SHOWING HIGHWAYS CLASSIFIED AS AT MARCH 31, 1981

Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
SALMON ARM (D)*	655R	Grindrod-Salmon Arm Hwy.	Arterial	5.50 km.	----- km.
	683R	Trans-Canada Highway	Arterial	22.43	-----
	23B	Salmon Arm-Enderby	Secondary	-----	1.11
	24B	Salmon Arm-Enderby	Secondary	-----	6.76
	80B	Salmon Arm-Enderby	Secondary	-----	0.34
	217B	Salmon Arm-Grand Prairie Rd.	Secondary	-----	9.98
SAYWARD (V)	693R	Sayward Highway	Arterial	4.38	-----
SECHELT (V)	244R	Porpoise Bay Road	Arterial	1.05	-----
	320R	Sunshine Coast Highway	Arterial	1.58	-----
SIDNEY (T)	292R	Ocean Avenue	Arterial	0.29	-----
	388R	Patricia Bay Highway	Arterial	3.03	-----
	389R	Lochside Dr. & Fifth St.	Arterial	1.67	-----
	390R	Beacon Avenue	Arterial	0.53	-----
	194B	Fifth St., Malaview Ave. & Resthaven Drive	Secondary	-----	2.86
	207B	First St. & Beacon Ave.	Secondary	-----	0.85
	228B	McDonald Park Rd. (E. half)	Secondary	-----	0.40
SILVERTON (V)	443R	Vernon-Slocan Highway	Arterial	0.95	-----
SLOCAN (V)	581R	Vernon-Slocan Highway	Arterial	67.06 m.	-----
SMITHERS (T)	607R	Yellowhead Highway	Arterial	4.19	-----
SPALLUMCHEEN (D)	271R	Vernon-Sicamous Hwy.	Arterial	21.73	-----
	153B	Pleasant Valley Hwy.	Secondary	-----	3.62
	171B	Armstrong-Salmon River Hwy.	Secondary	-----	11.83
SPARWOOD (D)	447R	Southern Trans-Provincial Hwy.	Arterial	26.71	-----
	448R	Corbin Road	Arterial	1.13	-----
	489R	Elk Valley Road	Arterial	5.71	-----
SQUAMISH (D)	399R	Darrel Bay Road	Arterial	0.32	-----
	406R	Alice Lake Road	Arterial	0.58	-----
	648R	Garibaldi Highway	Arterial	29.00	-----
	649R	Squamish Valley Road	Arterial	5.25	-----
	284B	Mamquam (Garibaldi Park) Rd.	Secondary	-----	3.82
STEWART (D)	584R	Stewart-Meziadin Lake Hwy.	Arterial	17.06	-----

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CLASSIFICATION OF HIGHWAYS

Under Part III of the "Highway Act"

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Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
SUMMERLAND (D)*	238R	Okanagan Hwy.	Arterial	11.27 km.	----- km.
	270B	North Prairie Valley Rd.	Secondary	-----	6.52
SURREY (D)	114R	Campbell River Road	Arterial	1.61	-----
	125R	Ladner-Langley Hwy.	Arterial	10.04	-----
	139R	Scott Road	Arterial	11.33	-----
	269R	Ladner-Langley Hwy.	Arterial	4.46	-----
	314R	Old Yale Rd. & Bridge Rd.	Arterial	1.21	-----
	371R	Vancouver-Blaine Hwy & Interchanges	Arterial	22.93	-----
	379R	Trans-Canada Hwy. & Interchanges	Arterial	22.56	-----
	384R	King George Hwy.	Arterial	27.02	-----
	385R	Fraser Hwy.	Arterial	14.08	-----
	455R	Ladner-Langley Hwy.	Arterial	0.97	-----
	554R	Pacific Highway	Arterial	19.20	-----
	150B	Campbell River Road	Secondary	-----	2.41
	151B	Marine Dr., Stevenson Rd. & Crescent Road	Secondary	-----	9.25
	182B	152nd St. (Johnston Road)	Secondary	-----	2.41
TAHSIS (V)		NIL			
TAYLOR (V)	601R	Alaska Highway	Arterial	4.41	-----
	161B	Taylor-Peaceview Road	Secondary	-----	1.53
TELKWA (V)	440R	Yellowhead Highway	Arterial	2.30	-----
	250B	Telkwa High Road	Secondary	-----	0.64
	286B	Telkwa Coal Road	Secondary	-----	1.60
TERRACE (D)	570R	Kalum Lake Road	Arterial	3.22	-----
	595R	Yellowhead Highway	Arterial	5.95	-----
TOFINO (V)	547R	Parksville-Port Alberni-Tofino Hwy.	Arterial	2.56	-----
TRAIL (C)	624R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	7.40	-----
	704R	Paterson-Rossland-Castlegar Highway	Arterial	2.02	-----
	711R	Smelter Hill Road	Arterial	2.64	-----
	285B	Warfield Hill Road	Secondary	-----	2.53
UCLUELET (V)	192R	Tofino-Ucluelet Road (Penninsula Rd. & Main St.)	Arterial	1.82	-----
VALEMOUNT (V)	432R	Fifth Avenue	Arterial	1.06	-----

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CLASSIFICATION OF HIGHWAYS

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Name of Municipality	Ref. No.	Name of Highway	How Classified	Approximate Length Arterial	Secondary
VANCOUVER (C)*	375R	Trans-Canada Highway	Arterial	1.56 km.	----- km.
VANDERHOOF (V)	233R	Vanderhoof-Stuart Lake Hwy. (Burrard Ave.)	Arterial	1.53	-----
	667R	Yellowhead Highway	Arterial	24.05	-----
	287B	Kenney Dam Road	Secondary	-----	2.89
VERNON (C)	573R	Okanagan Highway	Arterial	6.41	-----
	684R	Vernon-Slocan Hwy.	Arterial	2.85	-----
	251B	Twenty-Seventh St.	Secondary	-----	1.85
VICTORIA (C)		NIL			
WARFIELD (V)	623R	Nancy Greene Lake-Rossland-Meadows Hwy.	Arterial	2.59	-----
WEST VANCOUVER (D)	89R	Marine Drive Addition	Arterial	0.16	-----
	250R	Taylor Way	Arterial	1.13	-----
	289R	Garibaldi Hwy.	Arterial	5.31	-----
	372R	Marine Drive	Arterial	0.80	-----
	613R	Trans-Canada Highway & Interchanges	Arterial	30.83	-----
WHISTLER (R)	598R	Garibaldi Highway	Arterial	19.96	-----
WHITE ROCK (C)	149B	Marine Drive	Secondary	-----	5.02
WILLIAMS LAKE (T)	306R	Mackenzie Avenue North	Arterial	1.61	-----
	307R	Mackenzie Avenue South	Arterial	1.29	-----
	475R	South Truck Route	Arterial	1.08	-----
	583R	Chilcotin-Bella Coola Hwy.	Arterial	1.88	-----
	676R	Cariboo Highway	Arterial	3.57	-----
ZEBALLOS (V)	196R	Zeballos Road	Arterial	1.61	-----
			TOTALS	1,834.92 km.	338.37 km.

*Key to Municipal Designation - (C) City (D) District (R) Resort (T) Town (V) Village

REPORT OF HIGHWAY SAFETY ENGINEER

J. LISMAN

The routine effort in the Branch continued with investigation into accident "black spots" and equests for school pedestrian crossings forming the major part of the work. Development of new houlder traffic barrier standards and modernizing the requirements for their placement continued, together with other changes to design standards aimed at improving highway safety.

School related problems were dealt with by an expanded program of constructing wide paved houlders alongside rural roads where children were walking and cycling towards school. This ork was developed through the "Safest Route to School" process, which uses the home ddresses of the school children to determine the best and most convenient routes for the children. total of $239,886 was applied in this fashion and similar work was carried out as paving rojects. During the year the Schools Traffic Safety Policy Committee, supported by the Ministry f Education and I.C.B.C., produced several Teacher's Guides on Pedestrian Safety, Bicycle afety, and Automobile Passenger Safety, to be used by school teachers in preparing lessons for ounger children. These new Guides were the answers to requests from teachers for material, and e intended to complement the engineering and other efforts being done to reduce accidents to hool children.

This means that a working system is now in place to allow any elementary school to termine which are the safest and unsafest routes for school children travelling to and from the hool, and to have the physical facilities improved by our Ministry of the local municipality. ood road crossing points are then identified, and treated by means of marked crosswalks or ssibly signals. School patrols or adult crossing-guards may be used to supervise the crossings, decided by the local School Board, resulting in a well thought-out set of walking routes for ildren to use, eliminating any dangerous conditions.

In providing these facilities outside the school it is recognized as being vital that school achers also ensure the children are given a basic understanding of how to negotiate highways, hen to cross them in the presence of traffic, and to recognize traffic signs. The new Teacher's uides furnish the school teachers with the information needed to do this. Although this is not yet rt of the prescribed curriculum, it is hoped that school principals will see that the training is ven.

The Highway Safety Improvement Computer Program was developed into its final form, th the usual difficulties associated in producing a trouble-free computer program, and some rly results became available. This program is a powerful diagnostic tool in determining the cation of accident "black spots" on Provincial Highways, many of which vary greatly from the bjective opinions of local residents. Over three years of accident records have been available for r analysis, and the help that this will give in selecting places for remedial engineering work is stimable.

Early in the spring the contra-flow lane arrangement in the Massey Tunnel on Highway 99 s proposed to reduce the bottleneck to northbound commuters in the morning rush. The scheme allow two-way traffic in the southbound tunnel in the morning hours gave rise to a number of ghway Safety engineering problems, which had to be completed by the late summer. Three new fety elements were introduced as part of this project. A new higher concrete median barrier was signed with a different profile to deal with the smaller vehicles which are forming a higher portion of the motor vehicle fleet in British Columbia. It also incorporated a new type of joint, permit easy replacement of single units within the long length of barrier, and used concrete keys provide extra strength during vehicle collisions.

It was necessary to channel northbound vehicles between two rows of median barriers, which ant that one barrier had to be positioned between two traffic lanes. To reduce the probability of ury to occupants in vehicles striking the end of the median barrier a new style of narrow impact enuator was added. These are capable of slowing down passenger vehicles which strike them at

speeds of about 100 km/h, while reducing the deceleration forces of vehicle occupants to acceptable and moderate levels. A driver wearing proper seat belts striking the end of this impact attenuator at speed would probably suffer little or no personal injury.

To protect the vehicle occupants from striking the massive concrete bridge piers at Blundell overpass, a new deeper metal guardrail was introduced consisting of three corrugations, which compares with the two corrugations of the typical W-Beam. As well as being stiffer, the greater depth of beam caters for the increased range of bumper heights of low-bodied sub-compact Hondas, and the higher chassis of pickup trucks, which are now more common in the B.C. fleet. It should be noted that the composition of the vehicle fleet has been changing in recent years in response to fuel and other economic factors, and this has somewhat complicated the engineering of safety features which vehicles may contact.

Also added at Blundell overpass was the latest design of metal beam terminal which completely eliminated the "spearing" effect of earlier terminals, and the layout was flared back to match the anticipated trajectories of vehicles which might run off the freeway.

The traffic control devices which were necessary to effect lane closures and other changes in traffic flows through the Tunnel required a large number of sign supports. Wherever possible, and this meant in most cases, these were actually built into the concrete barriers to reduce the hazard to vehicle occupants who might otherwise crash into exposed poles. It is reasonable to claim that this part of Highway 99 is probably now among the safest in British Columbia, and should compare favourably with similar freeway sections anywhere in North America.

Remedial engineering was carried out in several parts of the Province. This included left-turn slot construction, rockcutting to eliminate poor alignment, major installation of updated metal guardrail, and the fitting of frangible bases to lamp standards to reduce the collision forces on vehicles running into them. The total of all expenditures carried out directly by the Branch was $520,641.82.

As in earlier years, the Highway Safety Engineer continued to participate in Provincial and National committees advancing road safety. The British Columbia School Traffic Safety Policy Committee met during the year almost monthly and produced three Teacher's Guides on Traffic Safety Education which were distributed to the elementary schools in the Province, with accompanying letters from the Minister of Education and the Minister of Transportation and Highways.

At the national level, co-operative meetings were held with other Provincial and Federal officials, to develop a set of practical proposals to be adopted by Provincial Ministers responsible for road safety, as part of the continuing effort to reduce accident rates and their severity. Typically, these include new seat-belt and child-restraint topics, vehicle safety standards, and the adoption of Highway Safety Engineering practices.

TRANSPORTATION

ENGINEERING AND INSPECTION BRANCH

This Branch is the regulatory authority administering the *Railway Act* and the *Pipeline Act*. Responsibilities include processing construction applications, inspecting pipelines, railways, aerial tramways and certifying operating personnel for railways and aerial tramways.

The Branch is represented on several Canadian Standards Association Committees and Sub-Committees including three Pipeline Committees and the Passenger Ropeways Committee, the Environment/Resource/Land Use Working Committee of the Energy Project Co-ordinating Committee and the Crossing and Signals Technical Working Committee.

Projects, New Procedures or Events of an Exceptional Nature in 1980–81 were:

a) Pipelines
- —submission reviewed for looping section of Pacific Northern Gas Co. transmission line to accommodate the Ocelot Heating Plant at Kitimat.
- —coiled aluminum piping using high energy impact joining was introduced in the natural gas pipeline network.
- —interference fit joining of steel pipe was utilized in the gas and oil fields.
- —two new field offices for pipeline inspection were opened at Prince George and Kelowna.

b) Aerial Tramways
- —development of a computer based data storage and retrieval system was started for all quantifiable data.
- —in 1980, the Province had the largest number of new lifts installation (23) of any Province or State in North America with the Whistler/Blackcomb area being the largest one to be installed in our area to date (8 chairlifts—7 triple and 1 double).

c) Railways
- —Federal Bureau of Management Consulting continues evaluating our Railway Inspection Program.
- —three specialists were hired for the following inspection programs:
  - Dangerous Commodities
  - Accident Investigation
  - Train Inspection and Occupational Safety
- —first submission received for the 130 km long Anzac–Tumbler Ridge spur line.

d) Industrial Roads
- —as of July 1, 1980, the administration of the Highways (Industrial) Act was transferred to other branches within the Ministry.

STATISTICS

Industrial Road Industry

Inspections carried out during the fiscal year included 529 industrial vehicles, 310 miles of industrial roads and 11 industrial road accidents were investigated. In addition 744 operating personnel were certified for Industrial Roads.

Statistics April 1, 1980 to March 31, 1981

Industrial vehicles inspected		529
Field and office air brake lectures attendance		645
Industrial vehicle driver examinations processed		744
Industrial roads inspected	(miles)	310
Industrial road bridges inspected		12
New vehicle applications reviewed and processed		210
Industrial road accidents investigated		11

Railway Industry

Railways under the jurisdiction of the Ministry of Transportation and Highways:

British Columbia Railway
British Columbia Hydro and Power Authority Railway
B.C. Harbours Board Railway
Byron Creek Collieries Ltd. Railway
Vancouver Wharves
Canadian Forest Products Railway
Crown Zellerbach Logging Railway
and some 44 other Industrial Railways, plus 5 Recreational Railways, all totalling the following: Track—4000 km, Locomotives—195, Other Motive Power Units—52, Major Yards—15, Bulk Storage Plants—46, Public Crossings—236, Signalized Crossings—68.

Locomotives and other motive power units inspected	247
Railway yards inspected	24
Operating personnel certified	105
New Trackage applications processed	19
Bridge and special applications processed	2
Trackage inspected	7,000 km
Bulk fuel storage plants inspected	37
Dangerous commodity facilities inspected	4
Road crossing applications processed	22
Automatic signalization applications processed	2
Bulk storage plant applications processed	3
Pipeline crossings processed	21
Accident/incidents investigated	51
Fixed plant inspections—Occupational Safety	11
First Aid Facility Inspections	16

Aerial Tramway Industry

Scope of Operation—94 areas (2 new)

Installations	Existing	New	Total
Triple Chairlift	11	11	22
Double Chairlift	44	1	45
T-Bars	63	6	69
Platter Lifts	5	—	5
Handle Tows	39	3	42
Rope Tows	52	2	54
Reversible Tramways (Double)	3	—	3
Reversible Tramways (5 Industrial and 5 River Crossings)	10	—	10
Gondolas	2	—	2
Total Installations	229	23	252

Annual Inspections	229
Acceptance Test for New Installations	23
Operational Inspections	112
Progress Inspections	71
Modifications and Improvements Inspected	16
Incidents Investigated	20

Aerial Tramway Incidents—1980

1. Deteriorated haul rope.
2. Chairlift deropements.
3. Several T-Bar deropements.
4. Handle tow operating without operator.
5. Skier struck by tee at unloading area.
6. Rollback including failure of backstop, emergency brake and service brake.
7. Skier fell at T-Bar loading area.
8. Skier failed to dismount chairlift promptly.
9. Skier struck arm on chairlift unloading ramp.
10. Tee caught in building causing damage to haul rope.
11. Haul rope damaged by high powered rifle.
12. Counterweight stuck in tube after haul rope splice, causing severe twist in haul rope through operation in this condition.
13. Failure of aerial ferry haul rope.
14. Haul rope deropement on reversible industrial tramway.
15. Several cases of wind causing trees to fall across lift line.
16. Handle tow deropement.
17. Poor concrete.
18. Tee caught between haul rope and sheave battery.
19. Tee flipped over haul rope.
20. Skiers fell out of chair at loading area.

Pipeline Industry

Present Scope—	
Major transmission pipelines	2,030 km
Gathering and flow and other transmission lines	7,300 km
Compressor and Pumping Stations	235
L.N.G. Plants	1
Pipeline applications processed	205
Compressor applications processed	15 (7,300 km)
Crossing applications processed	479
Length of Pipelines construction—	
Gas	117 km
Oil and Multiphase	58 km
Water	55 km
Total	230 km
Pipeline field inspections	477
Pump and Compressor Stations inspected	140
Pipeline failures investigated (see attached)	65

PIPELINE FAILURES IN BRITISH COLUMBIA

FOR PIPELINES UNDER THE PIPELINE ACT.

April 1, 1980 to March 31, 1981

Date	Company	Field	Product Transported	Cause of Failure	Amt. spilled in Cu.Meters
80-4-02	Esso	Boundary Lake	Oil	Corrosion	143
80-4-02	Petro-Canada	Peejay	Oil	Construction damage	0.5
80-4-22	Texaco	Boundary Lake	Oil	Internal Corrosion	0.8
80-4-25	Dome	Boundary Lake	Water	Weld Pinhole	8
80-4-26	Norcen	Pingel	Diesel	External Corrosion	0.8
80-4-18	Esso	Boundary Lake	Oil	External Corrosion	16
80-5-16	Scurry-Rainbow	Eagle	Oil	Weld Failure	0.8
80-5-07	Wainoco Pet.	Monias	Gas	Fire	-
80-6-04	Monsanto	Rigel	Oil	External Corrosion	0.8
80-6-23	Petro-Canada	Peejay	Oil	External Corrosion	0.2
80-6-24	Dome	Stoddart	Gas	Weld Failure	-
80-6-24	Norcen	Pingel	Diesel	External Corrosion	0.2
80-6-25	Esso	Boundary Lake	Oil	External Corrosion	0.2
80-6-25	Petro-Canada	Peejay	Oil	External Corrosion	0.2
80-6-25	Suncor	Blueberry	Oil	Overpressure	63
80-6-24	Petro-Canada	Jedney	Gas	External Corrosion	-
80-7-10	Monsanto	Nig Creek	Gas	Third party damage	-
80-7-17	Texaco	Boundary Lake	Water	Internal Corrosion	0.3
80-7-21	Petro-Canada	Beg	Gas	External Corrosion	-
80-8-22	Suncor	Blueberry	Oil	External damage	0.2
80-9-20	Dome	Stoddart	Gas	Weld failure	-
80-6-16	Pacific Northern Gas	Fort St. James	Gas	Hit by backhoe	-
80-8-15	Pacific Northern Gas	Prince Rupert	Gas	Hit by backhoe	-
80-9-24	Trans-Mtn. Enterprises	Richmond	Jet Fuel	Tank Ran Over	718
80-9-27	Suncor	Blueberry	Oil	Fire	-
80-10-01	Petro-Canada	Peejay	Oil	External Corrosion	5
80-10-1	Petro-Canada	Clarke Lake	Gas	Over pressure	-
80-9-18	Petro-Canada	Jedney	Gas	Hit by cat.	-
80-10-23	Dome	Nig	Gas	Unknown	-
80-10-27	Northland Utilities	Dawson Creek	Gas	Hit by cat.	-
80-11-4	Petro-Canada	Yoyo	Gas	Corrosion erosion	-
80-11-6	Scurry-Rainbow	Eagle	Oil	External damage	0.3
80-11-10	Mobil Oil	Sierra	Gas	External damage	-
80-11-18	Petro-Canada	N. Jedney	Gas	Split pipe	-
80-11-20	Petro-Canada	Weasel	Oil	External corrosion	50
80-11-20	Suncor	Blueberry	Oil	Hit by backhoe	3
80-11-21	Quasar	Grizzley	Gas	Construction damage	-
80-12-01	Skye Resources	Fireweed	Gas	Fire	-
80-12-5	Petro-Canada	Peejay	Oil	Weld pinhole	0.2
80-12-12	Suncor	Blueberry	Gas	Fire	-
80-12-10	B.C.Hydro	Maple Ridge	Gas	Hit by hoe	-
80-12-16	Petro-Canada	Clarke Lake	Water	Internal Corrosion	1.6
80-12-16	CDC	Laprise	Gas	Hit by cat.	-

Date	Company	Field	Product Transported	Cause of Failure	Amt. spilled in Cu.Meters
80-9-03	Suncor	Blueberry	Gas	External Corrosion	-
80-12-17	CDC	Inga	Oil	Overpressure	159
80-12-20	Suncor	Blueberry	Oil	Internal Corrosion	0.8
80-12-20	Petro-Canada	Bubbles	Gas	External Corrosion	-
81-1-02	Norcen	Wolf	Oil	Hit by bulldozer	28.1
81-1-18	CDC	Blueberry	Oil	Weld failure	6
81-1-10	Petro-Canada	Yoyo	Gas	External Corrosion	-
81-1-14	Canadian Superior	Inga	Water	External Corrosion	0
81-1-19	Westgrowth	Inga	Oil	Fire	-
81-1-16	Union	Peejay	Oil	Internal Corrosion	16
81-1-19	Union	Peejay	Oil	Internal Corrosion	6
81-1-23	Union	Peejay	Water	Internal Corrosion	0
81-1-29	Petro-Canada	Peejay	Oil	Weld failure	3
81-2-04	Petro-Canada	Clarke Lake	Gas	Ground settlement	-
81-2-10	Petro-Canada	North Pine	Gas	Overpressure	-
81-2-17	Suncor	Blueberry	Oil	Tank line leak	665.7
81-3-2	Petro-Canada	Peejay	Water	Human error	50
81-3-5	Petro-Canada	Peejay	Oil	Internal Corrosion	0
81-3-19	BP Exploration	Sukunka	Gas	Const. damage to pipe	-
81-3-20	Scurry-Rainbow	Stoddart	Water	Hit by backhoe	-
81-3-3	Suncor	Blueberry	Oil	Back hoe	0
81-3-19	Scurry-Rainbow	Stoddart	Water	Pin hole in weld	-

Total

Gas line failures		26
Oil line failures		31
Water line failures		8
Volume of oil spilled	1947.7M^3	
		65

STANDARDS AND ENGINEERING REPORT

The principal function of the Vehicle Standards Section is to administer an ongoing program of collection, review and technical analysis of B.C. Legislation, National Equipment Standards and legislation from other jurisdictions pertaining to vehicle standards; and to develop standards and legislation for the Province of British Columbia.

Highlights of studies conducted during the previous months are:

- *Vehicle Weights and Dimensions*—The Road and Transportation Association of Canada is endeavouring to find agreement on a uniform code of vehicle weights, dimensions and vehicle configurations. A number of items have received national agreement and the question of uniform weight is being studied by a special subcommittee to which B.C. belongs.

  Studies on vehicle stability are being conducted to rationalize discussions on vehicle configurations.

- *Load Securement*—Standards for approved methods of securing loads, strengths of tiedowns, covering of loads, stability of tiered objects and other areas that contribute to the safety of loaded commercial vehicles on the highway are the result of a development program on a uniform code of load security.

  The standards have been submitted to special interest organizations, associations and committees for their comments, and were prepared for the final stages of drafting as a regulation.

- *Alaska Highway (Pipeline) Transportation*—The movement of 66,000 loads of pipe which will be used to construct the Alaska pipeline have resulted in the need to develop some very specialized equipment. The Vehicle Standards Section has maintained liaison with industry to review the vehicle design concept thus ensuring the protection of the highway systems and the motoring public.

MOTOR CARRIER BRANCH

The activities of this Branch are recorded in the Annual Report of the Motor Carrier Commission published under separate cover.

MOTOR VEHICLE BRANCH

The Motor Vehicle Branch is responsible for the licensing and registering of motor vehicles, the mechanical inspection and safety standards, the monitoring of vehicle weights and dimensions, the determination of ability and fitness of persons to operate motor vehicles, the licensing and recording of vehicle operators and the support and development of road user and driver improvement programs.

The Branch is comprised of five Divisions: the Motor Vehicle Division, the Driver Licence Division, the Motor Vehicle Inspection Division, Commercial Transport Division and the Superintendent's Office, Administration.

A brief summary of activities indicates that the total number of registered vehicles in the 1980 licence year was 1,936,947, an increase of 136,462 or 7.6 per cent over the 1979 total.

Original driver licences issued up to December 31, 1980 were 107,610, an increase of 11,708 or 12.2 per cent from the 1979 total. The total number of licensed drivers as of December 31, 1980 was 1,950,336, an increase of 107,133 or 5.8 per cent over the 1979 total. There were 1,125,489 male drivers, while female drivers accounted for 824,847.

The Motor Vehicle Inspection Program inspected 650,405 vehicles with 172,866 or 26.6 per cent rejected during the year to December 31, 1980.

Road user safety programs were correlated through the Superintendent of Motor Vehicles Office—Administrative Services. The support and the direction of these programs is directed to all highway safety concerns throughout British Columbia. In the past years, the program to have the most notable impact on the public safety has been the mandatory seat belt legislation. In the year ending December 31, 1980 there were 13,486 seat belt convictions. These convictions were scattered throughout the Province and indicate the cooperation received from the law enforcement agencies. The Motor Vehicle Branch believes that the seat belt legislation has contributed noticeably to the decrease in the severity of accidents.

MOTOR VEHICLE DIVISION

The Motor Vehicle Division is responsible for the licensing and registering of motor vehicles, the issuance of permits, reciprocity agreements, the collection of revenue under the *Motor Vehicle Act, Commercial Transport Act, Social Service Tax Act, Insurance (Motor Vehicle) Act,* the *Motive Fuel Use Tax Act;* and the coordination of licence and insurance programs as they impact the Motor Vehicle Branch.

The personalized Number-plate Program received wider public acceptance during 1980 with average weekly applications exceeding 100. In October applications for "PNP's" increased to an average of 250 each week but dropped off to 125 weekly in December. At December 31, 1980 a total of 7,624 applications had been processed.

The Motor Vehicle Division controls, directly the issuing activity of 112 outlets throughout the Province, and indirectly the licensing function that is conducted through the Insurance Corporation's agency force that consists of approximately 660 offices. The 112 Government related outlets are comprised of 15 Motor Licence Offices, 56 Government Agencies and 41 Motor Vehicle Branch Appointed Agents. The 15 Motor Licence Offices are staffed with employees of the Motor Vehicle Branch (Ministry of Transportation and Highways) while the Government agencies are staffed by employees of the Ministry of Finance, but report to this Division for all motor vehicle issuance. The Motor Vehicle Branch appointed agents are appointed by the Branch and consist of credit unions, municipalities and private business or individuals. Usually appointments of Motor Vehicle Branch appointed agents are made in remote areas of the Province or where the population does not warrant a Motor Licence Office or Government Agency.

VEHICLE LICENCES

The total number of vehicles licensed during 1980 was 880,382, an increase of 79,897 or 4.4 per cent over the 1979 total.

Passenger vehicles licensed totalled 1,181,147, an increase of 55,492 or 4.9 per cent over the 1979 total.

Commercial vehicles licensed totalled 449,210, an increase of 21,858 or 5.1 per cent over the 1979 total.

Motorcycles licensed were 452,218, an increase of 5,358, or 14.5 per cent over the 1979 total.

Trailers licensed in 1980 totalled 207,807, of which 30,653 were commercial trailers and 177,154 were utility trailers.

FIELD SERVICE OPERATIONS

The Field Operation consists of:

MOTOR VEHICLE BRANCH OUTLETS

- Abbotsford
- Burnaby
- Chilliwack
- Cloverdale
- Kamloops
- Maple Ridge
- Mission
- New Westminster
- North Vancouver
- Richmond
- Trail
- Vancouver—Commercial Drive
- Vancouver—Georgia Street
- Vancouver—MacDonald Street
- Victoria

Total motor vehicle branch outlets—15
Total Permanent Staff—134

REGISTERED VEHICLES AT DECEMBER 31, 1980

	1979	1980	Increase	%
Passenger Vehicles	1,545,760	1,526,950	(18,810)	(1.2)
Motor Homes	31,427	35,330	3,903	12.4
TOTAL PASSENGER	1,577,187	1,562,280	(14,907)	(.9)
Commercial Vehicles:				
Regular Commercial	525,656	544,025	18,369	3.5
(A) Farm Trucks	22,571	24,798	2,227	9.9
(F) Farm Tractors	587	667	80	13.6
(P) Prorate	2,572	3,004	432	16.8
(T) Logging	1,032	1,219	187	18.1
(X) Industrial	6,266	7,434	1,168	18.7
TOTAL COMMERCIAL	558,684	581,147	22,463	4.0
Commercial Trailers	43,255	45,457	2,202	5.1
Utility Trailers	269,544	261,889	(7,655)	(2.8)
Motorcycles	75,279	77,610	2,331	3.1
TOTAL VEHICLES REGISTERED	2,523,949	2,528,383	4,434	.2

LICENSED VEHICLES AT DECEMBER 31, 1980

	1979	1980	Increase	%
Passenger Vehicles	1,125,654	1,181,147	55,493	4.9
Commercial Vehicles:				
Regular Commercial	396,341	416,805	20,464	5.2
(A) Farm Trucks	22,429	22,853	424	1.9
(F) Farm Tractors	584	504	(80)	(13.7)
(P) Prorate	778	1,727	949	122.0
(T) Logging	1,032	1,219	187	18.1
(X) Industrial	6,188	6,102	(86)	(1.4)
TOTAL COMMERCIAL	427,352	449,210	21,858	5.1
Commercial Trailers	32,159	30,653	(1,506)	(4.7)
Utility Trailers	178,460	177,154	(1,306)	(.7)
Motor Cycles	36,860	42,218	5,358	14.5
TOTAL VEHICLES LICENCED	1,800,485	1,880,382	79,897	4.4

DISTRIBUTION OF MOTOR VEHICLES

The following table provides information concerning the number of licences issued and their locality. This table cannot be regarded as an accurate population count of vehicles in the various parts of the Province as the owners move frequently from one area to another and vehicles are often sold to new owners residing in different localities than the previous owners. The table does, however, provide an indication of how vehicles are distributed throughout the Province.

PROVINCE OF BRITISH COLUMBIA
MOTOR VEHICLE POPULATION STATISTICS FOR LICENCED VEHICLES
1980

NAME	DISTRICT CODE	PASSENGER VEHICLES	COMMERCIAL VEHICLES	UTILITY TRAILERS	COMMERCIAL TRAILERS	MOTOR-CYCLES
Abbotsford	190	21,412	7,302	3,071	542	850
Agassiz	036	1,902	990	355	37	106
Alaska Highway	510	3,456	3,586	1,217	165	244
Aldergrove	191	7,599	3,945	1,434	257	293
Alvin	514	0	1	0	0	1
Armstrong	085	2,389	1,743	586	99	112
Ashcroft	042	1,608	1,213	475	38	81
Barriere	159	982	1,065	318	94	39
Bella Coola	083	444	718	122	30	33
Blue River	161	151	177	50	11	7
Boston Bar	044	379	266	69	9	28
Bralorne	046	77	107	15	2	12
Burnaby	103	70,136	17,026	5,816	2,998	1,986
Burns Lake	048	1,725	1,958	674	142	98
Campbell River	010	10,071	5,496	2,865	303	428
Cassiar Mines	182	360	470	79	11	80
Castlegar	123	5,199	2,550	1,174	93	210
Chase	050	2,653	1,861	840	88	106
Chemainus	017	1,829	950	493	35	78
Chilliwack	038	19,673	7,669	3,741	388	976
Clinton	052	607	674	198	49	15
Cloverdale	028	30,160	9,883	4,454	632	894
Courtenay	012	13,499	6,770	4,276	164	768
Cowichan	018	2,012	1,230	595	31	88
Cranbrook	125	8,198	5,054	2,107	349	360
Creston	127	4,157	2,918	1,148	110	237
Dawson Creek	167	6,147	6,068	1,597	491	254
Duncan	019	13,958	6,513	3,091	315	509
Elkford	516	2,090	1,748	648	28	134
Enderby	087	1,995	1,628	478	151	70
Fernie	131	4,414	3,359	1,080	168	188
Fort Nelson	181	1,449	1,918	368	195	114
Fort St. James	185	994	1,066	323	90	50
Fort St. John	169	7,485	9,815	2,099	909	399
Ganges	023	2,593	1,251	450	36	169
Golden	133	2,375	2,003	683	120	108
Gold River	016	768	477	243	5	63
Grand Forks	089	2,879	1,810	640	89	118
Greenwood	091	1,047	1,000	239	54	52
Gulf Islands	513	1,484	884	273	17	68
Haney	032	17,719	6,468	3,170	232	652
Hazelton	054	1,027	1,225	276	109	54
Hope	040	2,452	1,479	431	126	74
Houston	056	1,495	1,510	461	142	88
Hudsons Hope	186	1,649	1,880	520	169	89
Invermere	135	2,376	2,226	611	121	108
Kamloops	157	27,880	15,117	6,153	895	1,237
Kaslo	137	602	445	174	23	61
Kelowna	093	38,662	15,700	7,698	909	1,604
Keremeos	095	1,332	1,066	317	39	55
Kimberley	139	3,527	2,370	1,110	70	199
Kitimat	058	4,151	2,139	880	86	219
Ladysmith	021	3,705	1,803	896	68	163
Lillooet	059	1,131	922	208	65	69
Lytton	061	358	346	95	8	22
McBride	171	535	673	146	42	48
Merritt	063	2,926	2,420	889	144	127
Mission	034	9,561	4,048	1,591	111	324
Nakusp	141	912	859	397	38	60
Nanaimo	006	23,872	9,765	4,921	352	1,021
Natal	143	1	13	0	0	0
Nelson	150	6,852	3,215	1,439	108	296
New Denver	145	485	378	124	9	35
New Westminster Area	003	63,908	15,048	7,092	1,416	2,045
Northern Vanc. Island	515	7,174	5,243	1,672	106	441
North & West Vancouver	004	68,044	9,309	5,597	647	1,989

PROVINCE OF BRITISH COLUMBIA
MOTOR VEHICLE POPULATION STATISTICS FOR LICENCED VEHICLES
1980

NAME	DISTRICT CODE	PASSENGER VEHICLES	COMMERCIAL VEHICLES	UTILITY TRAILERS	COMMERCIAL TRAILERS	MOTOR-CYCLES
Ocean Falls	183	138	86	22	2	14
Oliver	099	2,755	1,657	544	79	75
100 Mile House	065	3,395	3,382	1,104	206	132
Osoyoos	100	2,086	1,193	421	59	63
Parksville	014	3,982	1,839	1,078	57	130
Penticton	112	16,638	7,112	3,229	372	686
Point Roberts U.S.A.	512	1,608	1,174	181	40	132
Port Alberni	008	10,959	5,566	3,336	152	529
Powell River	175	6,870	3,429	2,122	126	361
Prince George	067	28,521	19,705	7,110	1,360	1,063
Prince Rupert	069	5,214	2,420	747	115	159
Princeton	114	1,755	1,410	529	71	118
Qualicum	015	2,715	1,333	704	29	72
Queen Charlotte	520	1,169	1,276	288	32	99
Quesnel	071	6,897	6,098	1,947	407	422
Revelstoke	116	3,425	2,459	952	163	205
Richmond	102	82,692	16,344	8,203	597	2,298
Riondel	147	138	98	45	0	4
Salmo	148	928	672	222	49	61
Salmon Arm	118	7,068	4,671	1,966	325	260
Sechelt	173	6,278	3,322	1,268	76	291
Sidney	025	9,024	2,541	1,418	65	335
Slocan	115	714	552	136	17	40
Smithers	073	3,139	2,869	885	174	138
Sooke	026	3,032	1,550	572	63	116
Squamish	177	3,914	2,003	630	100	244
Surrey	029	63,659	20,615	8,963	935	2,116
Terrace	075	5,695	4,441	1,445	225	316
Tofino	180	406	269	74	11	21
Trail	152	10,192	4,096	2,287	133	563
Ucluelet	179	679	493	196	40	47
Vancouver	002	194,536	37,648	8,713	4,034	4,750
Vanderhoof	077	2,903	3,083	931	228	160
Valemount	163	573	678	182	44	38
Vavenby	165	1,431	1,346	473	99	97
Vernon	121	18,384	10,242	4,068	627	742
Victoria	001	102,440	30,725	12,812	1,942	3,353
Wells	079	144	122	34	2	16
Williams Lake	081	6,983	7,193	1,906	488	369
Out/Province	529	419	1,553	70	1,721	10
Miscellaneous	999	4,957	1,116	89	8	67
Total Licenced Vehicles		1,181,147	449,210	177,154	30,653	42,218

The difference between total licensed vehicles and total registered vehicles is due to the licence with owner concept, e.g., vehicles on dealers' sales lots are not required to be licensed. Some vehicles have been destroyed or removed from the Province but remain registered for six years or until notice is received.

REVENUE

The revenue collected and received by the Motor Vehicle Branch for licences, permits, motor vehicle inspection and other sundry items including the payment of Social Service Tax for the 1980 licence year ending December 31, 1980 amounted to $19,336,921.81.

Vehicle licence revenue collected, reported and accounted for to the Insurance Corporation of British Columbia on behalf of the Superintendent of Motor Vehicles for the 1980 licence year ending December 31, 1980 amounted to $67,026,814.00

Total revenue, including Social Service Tax was $86,363,735.81

SUMMARY OF REVENUE COLLECTED - ALL SOURCES

Revenue transmitted through the Insurance Corporation of British Columbia on behalf of the Motor Vehicle Branch		$ 67,026,814.00
Revenue collected and reported directly to the Motor Vehicle Branch		9,261,154.49
TOTAL - TO CONSOLIDATED REVENUE		$ 76,287,968.49
Other revenues collected and reported directly to the Motor Vehicle Branch for transmission to other Ministries and the Insurance Corporation of British Columbia:		
Ministry of Finance		
Fuel Use Permits	$ 248,993.01	
Social Service Tax Act	778,422.45	
TOTAL - TO COLSOLIDATED REVENUE		$ 1,027,415.46
Motor Vehicle (All Terrain) Act		7,168.00
Insurance Premiums Collected in Conjunction with Special Licences, Permits, and Policies:		
Driver Penalty Point Premium	3,830,023.83	
Temporary Operation Permit	579,962.00	
Temporary Testing and Demonstration Permit	511,293.00	
Non Resident Comm. Permit	270,377.00	
Highway Crossing Permit	29,239.00	
Demonstration Licence	60,790.00	
Transporters' Licence	1,686.00	
Manufacturers' Licence	2,575.00	
Trailer Floater Licence	29,893.00	
Repairman's Licence	15,121.00	
Special Plate Licence	8,517.00	
Interim Licence & Insurance Certificate	363,510.00	
Armed Forces/University Student Permit	585.00	
Recovered Premiums	3,337,612.03	
TOTAL - REVENUE TRANSFERRED		9,041,183.86
GRAND TOTAL - TOTAL REVENUE COLLECTED		$ 86,363,735.81

SUMMARY OF REVENUE COLLECTED - ICBC

Motor Vehicle Branch revenue transmitted through the Insurance Corporation of British Columbia pursuant to the Motor Vehicle Act and Commercial Transport Act.

Motor Vehicle Act Fees		
Passenger Vehicles	$ 26,252,216.00	
Motor Cycles	227,923.00	
Notices of Transfer	813,447.00	
Duplicates of Registration/ Certificates of Insurance	83,856.00	
New Vehicle Registration	195,780.00	
Decal Replacement Fee	13,757.00	
Substitution Plate Fee	53,967.00	
TOTAL MOTOR VEHICLE ACT FEES		$ 27,640,946.00
Commercial Transport Act Fees		
Commercial Vehicles	37,811,720.00	
New Vehicle Registration	312,874.00	
Decal Replacement Fee	7,505.00	
Substitution Plate Fee	24,145.00	
TOTAL COMMERCIAL TRANSPORT ACT FEES		$ 38,156,244.00
Combined Fees Under Motor Vehicle Act and Commercial Transport Act		
Trailers	1,219,248.00	
Substitution	8,067.00	
Decal Replacements	2,309.00	
TOTAL COMBINED (ACT) FEES		1,229,624.00
GRAND TOTAL - REVENUE TRANSMITTED		$ 67,026,814.00

SUMMARY OF REVENUE COLLECTED

Driver's Licences	$ 1,848,886.54
Temporary Operation Permits	269,039.05
Temporary Testing and Demonstration Permits	80,470.00
Non-Resident Commercial Vehicle Permits	1,120,699.60
Demonstration Licences	312,937.00
Transporters' Licences	22,215.00
Manufacturers' Licences	3,604.00
Trailer Floater Licences	131,337.00
Repairman's Licences	56,027.00
Certificate Replacements	433.00
Air Brake Manuals	16,791.00
Industrial Air Certificates	245.00
Driver Exam Medical Appeals	400.00
Driver Examination Fee Receipts	223,403.00
Search Fees	131,945.27
Motor Vehicle Inspection Certificates	860,939.50
Vintage (Antique) Licences	4,029.00
Transfers	2,049.00
Driving School Licences	1,160.00
Dealer's Interim Licence/Certificate	40,390.00
Driver Licence Assessment Fees	1,265,234.90
Personalized Number-plates	323,355.00
Oversize/Overweight & Highway Crossing Permits	457,183.63
Commercial Transport Act Special Licences	19,613.00
Uniform Prorate Agreement & Canadian Reciprocity	2,067,892.56
Foreign Exchange Surplus	875.44
TOTAL GROSS REVENUE COLLECTED BY MOTOR VEHICLE BRANCH	$ 9,261,154.49

DETAILED REVENUE BY TRANSACTION

	DOCUMENT COUNT	REVENUE
Drivers Licences		
Original	92,388	
Renewals	239,876	
Duplicate D.L.	87,865	
Identification Cards	13,202	
TOTAL	433,331	$ 1,848,886.54
Temporary Operation Permits		
Passenger	52,449	
Commercial	54,762	
TOTAL	107,211	$ 269,039.05
Temp. Testing & Demonstration Permits		
Passenger	30,825	
Commercial	9,412	
TOTAL	40,237	$ 80,470.00
Non-Resident Commercial Vehicle Permits		
Single Trip	44,395	
Quarterly	4,023	
TOTAL	48,418	$ 1,120,699.60
Demonstration Licence - Motor Vehicles		
Original	10	
Additional	59	
New	1,525	
Renewal	9,465	
Replacement - plate	1,370	
- decal	1,049	
TOTAL	13,478	
Demonstration Licence - Motorcycles		
Original	0	
Additional	0	
New	75	
Renewal	194	
Replacement - plate	63	
- decal	37	
TOTAL	369	$ 312,937.00

DETAILED REVENUE BY TRANSACTION

		DOCUMENT COUNT	REVENUE
Transporters' Licences			
Initial	- New	74	
	- Renewal	73	
Additional	- New	122	
	- Renewal	444	
Replacement	- New	88	
	- Renewal	24	
	TOTAL	825	$ 22,215.00
Manufacturers' Licences			
Initial	- New	9	
	- Renewal	16	
Additional	- New	7	
	- Renewal	22	
Replacement	- New	5	
	- Renewal	2	
	TOTAL	61	$ 3,604.00
Trailer Floater Licences			
Original		4	
Additional		9	
New		632	
Renewal		974	
Replacement - plate		515	
Replacement - decal		393	
	TOTAL	2,527	$ 131,337.00
Repairman's Licences			
Initial	- New	414	
	- Renewal	1,197	
Additional	- New	143	
	- Renewal	487	
Replacement	- plate	239	
	- decal	174	
	TOTAL	2,654	$ 56,027.00
Certificate Replacements			433.00
Air Brake Manuals		16,791	$ 16,791.00

DETAILED REVENUE BY TRANSACTION

		DOCUMENT COUNT	REVENUE
Industrial Air Certificates		49	245.00
Driver Exam Medical Appeal Fees		8	400.00
Driver Exam Receipts		223,403	$ 223,403.00
Search Fees			
Vehicles		149,348	
Drivers		47,099	
Lien Searches		6,150	
	TOTAL	202,597	$ 131,945.27
Motor Vehicle Inspection Certificates			$ 860,939.50
Vintage (Antique) Licences			
Vintage Vehicles		198	
Motorcycle Vintage		7	
Duplicate Certificates		14	
	TOTAL	219	$ 4,029.00
Transfers			
ATV		828	
Antique		99	
	TOTAL	927	$ 2,049.00
Driving School Licence			$ 1,160.00
Dealer's Interim Licence Insurance Certificate		20,195	$ 40,390.00
Driver Licence Assessment Fees			
$ 25.00		42,694	
$ 50.00		2,578	
$ 75.00		518	
$ 100.00		157	
$ 125.00		48	
$ 150.00		22	
$ 175.00		9	
$ 200.00		3	
Over $200.00		2	
	TOTAL	46,031	$ 1,265,234.90

DETAILED REVENUE BY TRANSACTION

	DOCUMENT COUNT	REVENUE
Personalized Number Plates		
Original	4,292	
Replacements	96	
TOTAL	4,388	$ 323,355.00
OW/OS - Hwy. Crossing Permits	36,543	$ 457,183.63
Commercial Transport Act Special Licences	83	$ 19,613.00
PRORATE/RECIPROCITY		
Vehicles		
Western Compact - Prorate	19,749	
Western Compact - Reciprocity	45	
Canadian - Reciprocity	442	
Backing Plates - Prorate	1,668	
TOTAL	21,904	
Trailers		
Western Compact - Prorate	35,672	
Western Compact - Reciprocity	nil	
Canadian - Reciprocity	657	
TOTAL	36,329	$ 2,067,892.56
Foreign Exchange Surplus		$ 875.44
TOTAL GROSS REVENUE COLLECTED BY THE MOTOR VEHICLE BRANCH UNDER THE MOTOR VEHICLE ACT AND THE COMMERCIAL TRANSPORT ACT		$ 9,261,154.49

REFUNDS

Legislation provides for the refunding of licence fees where licence plates are surrendered to the Superintendent. A person who was allocated motor vehicle licence plates for use on a vehicle registered in his name can, upon disposal of the vehicle, retain, destroy or attach the number plates to a substitute vehicle, or surrender them to the Superintendent, together with an application for refund of fees.

Refunds for motor vehicle licence plates are granted on the basis of the unexpired portion of the licence-year, but no refund is made of an amount less than $5.

On reassignment of the motor vehicle plates to a substitute vehicle, no refund is granted if the combined licence and insurance fee is less than $5.

The following summary sets out the amount of money refunded for the 1980 calendar year.

Personalized Number-plate Program - 1980 Calendar Year

Number of Applications received	5,510
Approved Original Applications	4,714
Approved Replacement Applications	100
Applications rejected (previously issued)	525
Applications rejected (unacceptable)	167
Applications cancelled	4
TOTAL	5,510

1980 Refund Statistics January 1, 1980 to December 31, 1980

TYPE OF REFUND	NUMBER	AMOUNT
General Refunds		
Motor Vehicle Act		
Passenger	208916	1,832,990.00
Drivers	199	4,289.44
Search Fees	722	6,752.61
Personalized Number-plates	668	50,205.00
Dept. of Commercial Transport		
Commercial	24835	1,484,815.93
Supplementary Fees	---	---
	235340	$3,379,052.98
Relinquishment Refunds		
Motor Vehicle Act		
Passenger	245	3,052.00
Drivers	865	1,904.00
Dept. of Commercial Transport		
Commercial	---	---
	1110	4,956.00
All Terrain Vehicle Refunds		
A.T.V.	4	20.00
	4	20.00
TOTAL REFUNDS	236454	3,384,028.98

DRIVERS' LICENCE DIVISION

The Driver Licence Division is responsible for the examination of an applicant's ability to safely operate a motor vehicle; for the issuance of drivers' licences, for development of driver safety and improvement programs; and for compiling and recording of incident reports.

There are 102 Driver Examiners throughout the Province who maintain and operate 18 travelling Driver Examination Units serving the drivers' licencing needs in all areas of British Columbia. The issuance of drivers' licences is done through Motor Licence Offices, Government Agencies, and Motor Licence Sub-offices as appointed.

Original driver licences issued during the calendar year totalled 107,610, an increase of 11,708 or 12.2 per cent from 95,902 issued in 1979.

The number of licensed drivers in British Columbia as of December 31, 1980 was 1,905,336, an increase of 107,133 over the previous total of 1,843,203.

There were 1,125,485 male drivers and 824,847 female drivers.

EXAMINATION OF DRIVERS

Analysis of input 1980, original licences issued 1980: male, 57,766; female, 49,844; total, 107,610.

CONVICTIONS

The receipt of notices of convictions for driving infractions under the *Criminal Code* (Canada), *Motor Vehicle Act*, Motor Vehicle Act Regulations, and the reports of violations of any law known as a "Traffic Rule", continue to supply information for the inclusion in the individual driving records of each licensed driver in this Province. Access to these records is available by means of the driver's licence number or by the name of the driver. It is the responsibility of the Driver Safety and Improvement Section to retain these records and to utilize the information in their assessment of driver records.

DRIVER IMPROVEMENT PROGRAM

The Driver Safety and Improvement Section of the Driver Licence Division continued the screening of unsatisfactory driving records, which resulted in many suspensions of drivers' licences. Continuing progress is being made in controlling those drivers whose actions become hazardous on the highway as the result of alcohol involvement and other dangerous driving practices.

Summary of Action Taken Under Driver Improvement Program - 1980

	Age 16	Age 17 and Over	Total
Driving Records Reviewed			128,480
Warning Letters			74,211
Probations			28,149
Drivers required to pay Assessment under Section 29(1) of the Motor Vehicle Act			65,339
Interviews conducted in Victoria			1,177
Notices of Intent to Suspend			4,970
Driver Licence Suspensions	82	43,422	43,504
Reasons for suspension:			
Section 25/2 (Examination/Medical Requirements)			396
Section 82 (Court Suspension)			504
Section 82/8 (Criminal Code Charges involving death)			16
Section 83 (Suspensions by Superintendent)			707
Section 83/10, 11, 12 (Suspension for non-payment of premiums owed to the Insurance Corporation of British Columbia)			2,535
Section 87 (Unsatisfied Judgment)			60
Section 88 (Unsatisfactory Driving Record)			8,002
Section 91 (Non-payment of Assessment Fee)			9,882
Section 92 (Mandatory Suspensions)			21,247
Section 94 (Suspension outside of British Columbia)			155
		TOTAL	43,504
Alcohol Related Convictions			19,258
Total of all Criminal Code Convictions received			23,016
Total of all infractions recorded			492,488
Juvenile offences reported			3,831
Revenue Collected under Section 29(1) of the Motor Vehicle Act			$1,555,191.46

DRIVER TRAINING SCHOOL STATISTICS

LICENCE ISSUING PERIOD - JANUARY 1, 1980 TO DECEMBER 31, 1980

ISSUANCES

JANUARY 1, 1980 to DECEMBER 31, 1980	SCHOOLS	OPERATORS	INSTRUCTORS
Licences Issued	97	94	325
Terminations	3	7	69
Suspensions	0	0	0
Reinstatements	0	0	0
Total Active Licences as of DECEMBER 31, 1980	94	87	256

EXAMINATIONS CONDUCTED - JANUARY 1, 1980 TO DECEMBER 31, 1980

Written Examinations (Instructor)	Passed	78
	Failed	72
	TOTAL	150
Practical Examinations (Instructor)	Passed	74
	Failed	12
	TOTAL	86

TEMPORARY PERMITS

Original Permits Issued	73
Temporary Instructors as of DECEMBER 31, 1980	6

$500.00 SECURITY BONDING 1980

Bonded by Surety	56 x $500.00 =	$28,000.00
Security on Deposit (Bond or Term Deposit)	29 x $500.00 =	$14,500.00
Security on Deposit (Cash)	15 x $500.00 =	$ 7,500.00
TOTAL SURETY & SECURITY VALUE		$50,000.00

REVENUE

School Licences - $25.00	$ 2,425.00
Operator's Licences - $10.00	940.00
Instructor's Licences - $5.00	1,625.00
TOTAL	$ 4,990.00

INSPECTIONS CONDUCTED

Driver Training Schools	202
Driver Education Incentive Programs	137

DRIVER EDUCATION INCENTIVE PROGRAM CERTIFICATES

Number of D.E.I.P. Certificates Received	8,600
Number of D.E.I.P. Certificates Approved	8,561
Number of D.E.I.P. Certificates Rejected	39

During the fiscal period ending December 31, 1980, there were 53 Secondary Schools and 62 Driver Training Schools approved to conduct Driver Education Incentive Program Courses.

THE CERTIFICATION PROGRAM

Since 1971, a Driver Certification Program has been offered to persons, schools, firms, and businesses who are involved in the transportation and trucking industry. The privilege of certifying drivers is granted to those companies who meet the standards of the program as set out by the Superintendent of Motor Vehicles.

There are 128 Recognized Authorities currently under the Certification Program in the Province.

In 1980, there were 38 liaison visits to Recognized Authorities conducted by Supervisory Examiners and members of the Special Programs staff.

Three Recognized Authorities were withdrawn and 15 new companies were accepted into the Program.

INDUSTRIAL ROADS

The Motor Vehicle Branch assumed the responsibility of administering the *Highway (Industrial) Act* on July 1, 1980. All drivers of unlicensed vehicles on private industrial roads are now licensed by the Superintendent of Motor Vehicles.

Since July 1, 1980, the Superintendent has issued: 43 Original Air Tickets, 24 Duplicate Air Tickets, 421 Renewal Air Tickets, and 40 Temporary (60 day) Permits.

As of December 31, 1980, there were 9,823 licensed Off Highway drivers.

MOTOR VEHICLE INSPECTION DIVISION

In 1980, there were 650,405 vehicles inspected in the Victoria, Nanaimo, Vancouver, Richmond and Burnaby Inspection Stations. 172,866 vehicles did not meet the standards and were rejected and of these, 361 were in such condition that they could not be allowed to return to the highway.

During this period, the inspection station staff also inspected 1,663 salvaged vehicles and those approved were issued a Certificate of Mechanical Condition. The average salvage inspection takes 1.4 hours.

There were 237 incident investigations conducted by Motor Vehicle Inspectors in 1980.

The staff of the inspection stations also supervise and report on the 36 Authorized Inspection Stations that have been established. In 1980 there were 6,286 vehicles inspected and approved by the authorized stations.

During 1980 many manufacturers had vehicle lamps approved for use in the Province of British Columbia.

From January 1, 1980 to December 31, 1980 there were 86 permits issued for flashing lamps and 50 issued allowing the installation of sirens. In each case the permits are issued only where a hazard exists and with the approval of the local law enforcement agency.

There were approximately 1,800 school buses which were inspected each six months in 1980. Of these, approximately 500 were inspected at the stations and the remaining 1,300 were inspected by the School Bus Inspection Team which travels throughout the province semi-annually.

In December, 1979, the Motor Vehicle Inspection Division undertook a special project of inspecting heavy duty vehicles at roadside checks. This program has indicated a high percentage of the vehicles inspected did not meet the standards. A statistics sheet follows showing the numbers of vehicles inspected and rates of rejection for the period December 10, 1979 to December 19, 1980.

MOTOR VEHICLE BRANCH

Roadside Check Statistics

Period: December 10, 1979 to December 19, 1980

Number of vehicles inspected			7,046
Number of unsafe vehicles taken out of service	388		
Number of vehicles with major defects	4,537	69.9%	
Number of vehicles with other deficiencies	1,045		
Total	5,970	84.7%	
Number of vehicles requiring brake repair or adjustment			3,813

DRIVERS' LICENCES CHECKED SHOWED:

(1) 79 holding the wrong class of licence for the equipment operated.

(2) 174 drivers lacked the knowledge to adjust air brakes. (Drivers will be required to requalify for air endorsement).

SUMMARY OF VEHICLE INSPECTION—1980

The following is the number of inspections completed at each station:

Inspection Station	Approved	Rejected	Percentage Rejected	Inspections Conducted
VICTORIA				
1980	110,194	30,612	21.7	140,806
1979	108,583	30,832	22.1	139,415
VANCOUVER				
1980	116,399	45,844	28.3	162,243
1979	108,461	49,687	31.4	158,148
RICHMOND				
1980	87,409	31,232	26.3	118,641
1979	80,336	27,624	25.6	107,960
BURNABY				
1980	132,311	53,237	28.7	185,548
1979	125,599	56,149	30.9	181,748
NANAIMO				
1980	31,226	11,941	27.7	43,167
1979	29,634	10,563	26.3	40,197

Notices requiring the owner to present his motor vehicle for inspection were mailed to 527,962 of whom 278,052 required a second notice.

During the inspection of motor vehicles, it was found that 172,866 did not meet standards and were rejected. The total number of defects found were 357,853 or 2.1 defects for each rejected vehicle.

M.V.I.3—0

MOTOR-VEHICLE INSPECTION—SUMMARY OF VEHICLE INSPECTION

ANNUAL

STATIONS 001 - 005 JANUARY 1st, 1980 - DECEMBER 31st, 1980

	INSPECTED AND APPROVED					REINSPECTED AND APPROVED					FREE APPROVED					TOTAL APPROVED
	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	
Passenger	176287	85591	32322	7115	301315	30082	39382	19821	5694	94979	180	238	54	21	493	396787
Commercial	27755	12994	4210	880	45839	8264	8230	3074	848	20416	247	142	76	–	465	66720
Motor-cycle	3749	420	115	23	4307	281	104	11	–	396	–	–	–	–	–	4703
Trailer	819	770	271	213	2073	303	372	108	105	888	2138	2341	1082	807	6368	9329
Total	208610	99775	36918	8231	353534	38930	48088	23014	6647	116679	2565	2721	1212	828	7326	477539
	INSPECTED AND REJECTED					REINSPECTED AND REJECTED					FREE REJECTED					TOTAL REJECTED
	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	Age 1	Age 2	Age 3	Age 4	Total	
Passenger	38437	53671	28156	7956	128220	1901	3422	2308	758	8389	137	197	61	44	439	137048
Commercial	11492	10714	4739	1375	28320	1047	969	551	188	2755	135	161	89	31	416	31491
Motor-cycle	536	201	22	9	768	20	–	–	–	20	–	–	–	–	–	788
Trailer	369	387	309	204	1269	155	36	32	17	240	669	643	465	253	2030	3539
Total	50834	64973	33226	9544	158577	3123	4427	2891	963	11404	941	1001	615	328	2885	172866
Per cent	19.6	39.4	47.4	53.7	31.0	7.4	8.4	11.2	12.7	8.9	26.8	26.9	33.7	28.4	28.3	26.6
Presented for Inspection	259444	164748	70144	17775	512111	42053	52515	25905	7610	128083	3506	3722	1827	1156	10211	650405

VEHICLE AGE CODES

AGE 1: 1976 and later

AGE 2: 1971 - 1975

AGE 3: 1966 - 1970

AGE 4: 1965 and earlier

CONDEMNED VEHICLE CERTIFICATES = 361

TOTAL SALVAGE VEHICLE INSPECTIONS = 1663

CAUSES OF REJECTION

The inspection stations found 361 vehicles to be in such condition that they could not be allowed to return to the highway. The vehicles were condemned, their licence suspended and they were towed away from the inspection stations.

Stations 001–005

Code	Age 1	Age 2	Age 3	Age 4	Total
1. Motor vehicle licence	1,586	959	533	136	3,214
2. Number-plates	1,430	2,015	865	253	4,563
3. Plate lamp	3,912	8,326	4,642	1,284	18,200
4. Tail lamps	2,079	3,144	2,709	538	8,470
5. Stop lamps	4,107	5,985	4,298	1,370	15,760
6. Turn signals	3,080	5,640	4,932	1,449	15,101
7. Reflectors	761	871	519	276	2,427
8. Horn	1,400	1,837	1,212	403	4,852
9. Windshield wipers	574	1,496	1,099	505	3,674
10. Left window raiser	258	610	573	149	1,590
11. Doors, body hood	909	3,248	3,498	1,542	9,197
12. Bumper, mudflaps	621	935	1,123	486	3,165
13. Headlamps	11,840	16,832	13,254	3,903	45,829
14. Identification lamps	1,328	1,261	653	152	3,394
15. Spot lamps	1,866	1,253	406	141	3,666
16. Fog lamps	616	2,863	1,360	573	5,412
17. Auxiliary lamps	978	783	388	149	2,298
18. Wheel alignment	5,831	5,631	3,203	880	15,545
19. Steering mechanism	7,366	12,765	8,736	3,286	32,153
20. Tires, wheels	8,718	13,810	8,111	2,017	32,656
21. Fuel system	314	571	483	113	1,481
22. Exhaust, muffler	8,259	15,666	8,473	2,249	34,647
23. Service brakes	8,764	10,982	5,931	1,896	27,573
24. Pedal reserve	967	1,851	1,421	648	4,887
25. Brake connections	4,360	8,468	4,149	1,242	18,219
26. Air or vacuum	668	771	413	131	1,983
27. Vehicle noise	295	432	270	153	1,150
28. Parking brake	3,660	5,632	3,211	692	13,195
29. Visibility	4,646	5,165	2,806	711	13,328
30. Driver seat belts	740	1,400	888	253	3,281
31. Miscellaneous	2,568	2,463	1,520	392	6,943
Grand Total	94,501	143,701	91,679	27,972	357,853

Vehicle Age Code: Age 1: 1976 and later, Age 2: 1971–1975, Age 3: 1966–1970, Age 4: 1965 and earlier.

Thirty-six Authorized Fleet Inspection Stations have been established. Three of the stations inspect all types of vehicles, and thirty-three are authorized to inspect regular (commercial) trailers only. Vehicles inspected and approved at these stations totalled 6,286.

Another service provided by inspection stations is the mechanical inspection of salvaged vehicles. A total of 1,663 salvaged vehicles was inspected and those that were approved were issued a Certificate of Mechanical Condition. The average time taken to inspect a salvage vehicle is 1.4 hours.

PERMITS FOR FLASHING RED AND AMBER LAMPS, SIRENS, THEFT ALARMS AND FLASHING HEADLAMPS

The Superintendent may, under the provisions of the Motor Vehicle Act Regulations, issue permits to allow a vehicle to be equipped with a flashing lamp. The Regulations specify that certain emergency vehicles, tow cars and pilot cars may be equipped without obtaining permits. The permits are required for vehicles such as public utility vehicles which must stop on a highway to repair power or telephone lines. In each case, the permit is issued where a hazard exists and only with the approval of the local enforcement agency.

From January 1, 1980 to December 31, 1980, 75 permits for flashing amber lamps, and 11 permits for flashing red lamps were issued. In addition, 29 permits were issued to allow the installation of sirens and red flashing lamps on vehicles. These vehicles were usually ambulances or the personal vehicles of the chief of a volunteer fire department in a small community.

A total of 21 permits was issued for the installation of theft alarms in vehicles.

SCHOOL BUSES

Control over the use and operation of school buses engaged in the transportation of students to and from schools in the Province is the responsibility of the Superintendent of Motor Vehicles. The control extends to the setting of minimum standards for the construction and maintenance of school buses and provides for periodic inspection of school buses. This inspection is carried out on behalf of the Superintendent by senior Motor Vehicle Inspectors of the Branch. Motor Vehicle Inspectors at the five inspection stations operated by the Branch are appointed mechanical inspectors for the inspection of school buses. School buses in the Victoria area, Greater Vancouver area, and Greater Nanaimo area are inspected at the Inspection Station in the area or by an Inspector from the station.

From January 1, 1980 to December 31, 1980 the number of permits issued for vehicles to be used as school buses was 1,543 renewal permits and 271 permits for new vehicles for a total of 1,814 as compared to the period of January 1, 1979 to December 31, 1979 of 1,834. Of these permits issued 64 were cancelled as the result of the sale and transfer of vehicle or of poor mechanical condition.

From January 1, 1980 to December 31, 1980 school buses were involved in 171 accidents of which 140 resulted in property damage only. Three students and 36 persons other than students were injured in thirty injury accidents. There was one fatal accident involving a school bus during this period.

ANALYSIS OF LICENCED DRIVERS ON RECORD JAN. 1, 1980-DEC. 31, 1980

MALE

CLASSIFICATIONS

AGE	1	1,5	2	2,5	3	3,5	3,4	3,4,5	4	4,5	5	5,6	6	TOTAL
16	0	0	0	0	0	0	0	0	0	0	9783	319	66	10,168
17-19	139	26	23	7	471	57	12	1	167	21	58530	3699	219	63,372
20-24	3046	965	449	155	3123	823	283	91	3563	742	106888	14248	363	134,739
25-29	4487	1979	1305	519	4547	1613	709	320	5803	1734	106500	20450	451	151,417
30-34	5960	1384	1905	460	5078	1091	358	251	7039	1264	112461	13726	226	151,693
35-39	5701	805	1680	220	4315	464	627	101	4302	446	90485	5171	49	114,366
40-44	4949	443	1397	135	3915	287	434	57	2726	183	72705	2691	28	89,950
45-49	4266	325	1159	90	3487	215	377	38	1878	113	67141	1916	12	81,018
50-54	3109	235	959	80	3288	140	279	21	1507	71	64693	1485	20	75,887
55-59	1765	79	802	37	2415	84	188	13	1121	37	60327	1003	22	67,895
60-64	877	32	573	15	1551	33	92	5	945	24	51805	592	19	56,303
65-69	179	6	176	9	462	6	24	1	339	7	49470	392	15	51,086
70-74	15	1	26	1	61	0	0	0	95	1	36192	121	14	36,517
75-79	3	0	2	0	11	0	1	0	16	0	22307	32	12	22,384
80-84	0	0	0	0	0	0	0	0	3	0	11175	16	12	11,206
85-89	1	0	0	0	1	0	0	0	1	0	5056	6	5	5,070
90& OVER	0	0	0	0	0	0	0	0	1	0	2411	2	0	2,414
TOTAL	34497	6283	10456	1730	32725	4804	3384	899	33236	4643	927929	65869	1533	1,125,485

* New system now used is for calendar year, therefore January, February, and March figures included on this chart, were also included in previous years chart.

ANALYSIS OF LICENCED DRIVERS ON RECORD JAN. 1, 1980-DEC. 31, 1980

FEMALE

CLASSIFICATIONS

AGE	1	1,5	2	2,6	3	3,6	3,4	3,4,6	4	4,5	5	5,6	6	TOTAL
16	0	0	0	0	0	0	0	2	6	0	5745	19	4	5,773
17-19	3	0	1	0	10	1	0	0	53	0	45351	192	28	46,139
20-24	105	8	83	6	85	7	13	0	1040	50	107714	1081	51	110,246
25-29	108	15	208	10	92	12	4	3	1577	82	121418	1719	65	125,323
30-34	102	12	209	17	52	4	13	0	1093	56	119555	1247	43	122,403
35-39	67	4	184	10	45	0	11	0	732	27	88263	561	15	89,939
40-44	49	2	150	9	24	2	5	0	569	7	66652	253	13	67,745
45-49	23	1	101	0	29	1	4	0	365	5	55186	134	3	55,837
50-54	13	1	52	2	37	1	0	0	362	4	51453	92	6	51,938
55-59	8	0	52	0	14	0	2	0	159	2	49201	47	6	49,491
60-64	1	0	14	0	3	0	0	0	80	0	39211	22	2	39,333
65-69	0	0	1	0	0	0	0	0	15	0	30056	11	0	30,083
70-74	0	0	1	0	0	0	0	0	4	0	17234	5	2	17,252
75-79	0	0	0	0	0	0	0	0	0	0	8062	2	4	8,068
80-84	0	0	0	0	0	0	0	0	1	0	3706	3	0	3,710
85-89	1	0	0	0	0	0	0	0	0	0	1242	0	0	1,243
90& OVER	0	0	0	0	0	0	0	0	0	0	322	2	0	324
TOTAL	483	43	1056	54	391	23	52	5	6179	243	810331	5398	247	824,847

* New system now used is for calendar year, therefore January, February and March figures included on this chart, were also included in previous years chart.

Convictions Under Criminal Code (Canada) 1977-1980
for Licenced B.C. Drivers

Offences	1977	1978	1979	1980
Under Criminal Code (Canada)				
Causing death by criminal negligence, sec. 203	9	9	13	7
Causing injury by criminal negligence, sec. 204	4	2	0	1
Criminal negligence in operation of motor vehicle, sec. 233(1)	35	38	43	25
Failing to stop after accident, sec. 233(2)	553	513	583	614
Dangerous driving, sec. 233(4)	560	458	467	538
Driving while ability impaired, sec. 234	3,991	5,831	6,753	6,853
Breath sample not provided, sec. 235	1,337	1,080	1,440	1,736
Driving with more than 80 mg of alcohol in blood, sec. 236	13,168	9,290	7,794	8,464
Driving motor vehicle while driver's licence under suspension, sec. 238	1,849	2,650	2,536	2,291
	20,506	20,271	19,629	20,529

Total Number of Offences Under Motor Vehicle Act as Recorded on Licenced B.C. Drivers' Records 1977-1980

Offences	1977	1978	1979	1980
Under Motor Vehicle Act-				
Driving without obtaining driver's licence, sec. 23(1)	2,602	3,177	3,297	4,441
Driving without subsisting Motor Vehicle Liability policy, sec. 23(3)	1,869	2,250	2,131	2,646
Driving Motor Vehicle otherwise than as restricted on driver's licence, sec. 24(7)	1,098	1,199	1,150	1,262
Driving without having a driver's licence and liability card in possession at time, sec. 30	4,101	6,067	11,055	15,051
Driving when right to obtain licence is suspended, sec. 31(3)	0	0	4	1
Leaving the scene of an accident, sec. 62	987	1,078	1,216	1,181
Using licence belonging to another, refusing to show licence, sec. 64	224	396	391	548
Driving while under a mandatory suspension, sec. 92(9)	-	-	34	70
Failing to obey emergency instructions of a peace officer, sec. 119	88	97	79	51
Failing to obey traffic control signal legend, secs. 130, 132, 133, 134, 136, 139, 163	47,353	45,391	45,551	50,793
Failing to obey special signs "re" highway construction, secs. 145, 146, 148	1,106	1,604	769	2,084
Careless driving, sec. 149	14,490	14,329	-	-
Driving without due care and attention, sec. 149(A)	-	-	8,766	9,243
Driving without reasonable consideration for others, sec. 149(B)	-	-	2,320	2,552
Driving too fast for road or weather conditions, sec. 149(C)	-	-	3,768	4,129
Slow driving, sec. 150	162	119	100	253
Exceeding maximum speed limit, sec. 151	234,530	245,911	254,101	270,095
Exceeding speed limit passing schools and playgrounds, sec. 152	13,600	12,514	13,985	19,183
Passing stopped school bus, sec. 153	246	237	252	350
Failure to drive on the right, sec. 154	1,803	1,591	1,527	1,702
Infractions of "lane" driving, secs. 155, 156, 157	6,538	7,161	7,171	7,674
Infractions of "passing," secs. 159, 160, 161, 162, 164, 165	6,868	7,139	8,118	8,845
Infractions of turning, starting, and directional signals, secs. 166, 167, 168, 169, 170, 171, 172, 173, 174	4,644	4,754	4,919	5,451
Failure to yield right-of-way, secs. 175, 176, 177, 178, 179	6,372	6,433	6,887	7,418
Not exercising due care "re" pedestrians, secs. 181, 183	1,567	1,792	2,400	2,163
Failure to stop at railroad crossing, sec. 186	464	444	414	329
Failure to stop at intersection, sec. 187	12,810	14,222	16,967	19,441
Leaving vehicle improperly parked, sec. 192	828	833	640	18
Backing vehicle illegally, sec. 194	2,356	2,444	2,791	2,961
Operating motorcycle with more than one person, sec. 195	9	13	14	13
Requirements of safe driving on highway, secs. 196, 197	81	70	95	80
Coasting down grade with gears in neutral, sec. 198	13	9	2	5
Fire vehicle safety, secs. 199, 200	32	26	23	38
Driving on sidewalk, sec. 201	158	180	181	204
Opening door requirements, sec. 204	49	51	52	60
Illegal depositing of articles on highway, sec. 205	174	194	240	171
Failure to wear seat belt assembly, sec. 217	185	1,084	3,779	12,063
Riding motorcycle without safety helmet, sec. 218	379	399	620	613
Other	1	1	0	0
	367,787	383,210	405,809	453,182
Under Motor Vehicle Act Regulations	16,372	18,418	17,690	10,346

Violations Under Sec. 122 of Motor Vehicle Act. 1977-1980
for Licenced B.C. Drivers

Offences	1977	1978	1979	1980
Under Motor Vehicle Act-				
Failing to obey emergency instructions of a peace officer, sec. 119	82	87	70	43
Failing to obey traffic-control signal legend, secs. 130, 132, 133, 134, 136, 139, 163	46,386	43,934	44,074	48,673
Failing to obey special signal signs "re" highway construction, secs. 145, 146, 148	1,080	1,566	759	2,021
Careless driving, sec. 149	13,177	13,034	-	-
Driving without due care and attention, sec. 149(A)	-	-	8,397	8,761
Driving without reasonable consideration for others, sec. 149(B)	-	-	2,223	2,422
Driving too fast for road or weather conditions, sec. 149(C)	-	-	3,623	3,984
Slow driving, sec. 150	157	119	100	242
Exceeding maximum speed limit, sec. 151	227,872	238,043	248,035	260,423
Exceeding speed limit passing schools and playgrounds, sec. 152	13,198	12,077	13,720	18,586
Passing stopped school bus, sec. 153	228	209	235	332
Failure to drive on right, sec. 154	1,698	1,493	1,478	1,619
Infractions of "lane" driving, secs. 155, 156, 157	6,334	6,887	6,906	7,333
Infractions of "passing," secs. 159, 160, 161, 162, 164, 165	6,523	6,820	7,889	8,592
Infractions of turning, starting and directional signals, secs. 166, 167, 168, 169, 170, 171, 172, 173, 174	4,486	4,523	4,746	5,229
Failure to yield right-of-way, secs. 175, 176, 177, 178, 179	6,097	6,146	6,730	7,179
Not excercising due care "re" pedestrians, secs. 181, 183	1,527	1,717	2,319	2,064
Failure to stop at railroad crossing, sec. 186	450	432	399	316
Failure to stop at intersection, sec. 187	12,213	13,509	16,427	18,577
Backing vehicle illegally, sec. 194	2,214	2,327	2,714	2,841
Operating a motorcycle with more than one person, sec. 195	4	6	3	9
Improper control and operation of vehicle in canyon or defile, sec. 197	4	0	1	11
Coasting down grade with gears in neutral, sec. 198	13	8	1	5
Failure to observe fire vehicle safety, secs. 199, 200	28	21	21	35
Driving on sidewalk, sec. 201	144	165	169	171
Opening door when unsafe, sec. 204	44	43	46	51
Other	0	1	0	0
	343,959	353,172	371,085	399,519
Under Motor Vehicle Act Regulations	4,793	4,613	4,300	4,102

Convictions Under Motor Vehicle Act 1977-1980
for Licenced B.C. Drivers

Offences	1977	1978	1979	1980
Under Motor Vehicle Act-				
Driving without obtaining driver's licence, sec. 23(1)	2,566	3,144	3,292	4,422
Driving without subsisting Motor Vehicle liability policy, sec. 23(3)	1,837	2,203	2,122	2,634
Driving Motor Vehicle otherwise than as restricted on driver's licence, sec. 24(7)	1,063	1,159	1,138	1,254
Driving without having driver's licence and liability card in possession at time, sec. 30	4,033	5,998	11,024	14,992
Driving when right to obtain licence is suspended, sec. 31(3)	0	0	4	0
Leaving the scene of an accident, sec. 62	975	1,069	1,211	1,170
Using licence belonging to another, refusing to show licence, sec. 64	218	383	388	540
Driving while under a mandatory suspension, sec. 92(9)	-	-	34	70
Failing to obey emergency instructions of a peace officer, sec. 119	5	9	9	7
Failing to obey traffic control signal legend, secs. 130,132, 133, 134, 136, 139, 163	285	731	1,172	1,774
Failing to obey special signs "re" highway construction, sec. 145, 146, 148	6	14	10	48
Careless driving, sec. 149	127	155	-	-
Driving without due care and attention, sec. 149(A)	-	-	163	266
Driving without reasonable consideration for others, sec. 149(B)	-	-	34	65
Driving too fast for road or weather conditions, sec. 149(C)	-	-	28	54
Slow driving, sec. 150	3	0	0	6
Exceeding maximum speed limit, sec. 151	1,188	2,454	3,881	7,666
Exceeding speed limit passing schools and playgrounds, sec. 152	40	107	171	461
Passing stopped school bus, sec. 153	12	16	14	12
Failure to drive on the right, sec. 154	12	15	27	68
Infractions of "lane" driving, secs. 155, 156, 157	58	118	192	284
Infractions of "passing," secs. 159, 160, 161, 162, 164, 165	48	81	124	219
Infractions of turning, starting and directional signals, secs. 166, 167, 168, 169, 170, 171, 172, 173, 174	41	84	136	186
Failure to yield right-of-way, secs. 175, 176, 177, 178, 179	34	39	89	153
Not exercising due care "re" pedestrians, secs. 181, 183	12	48	70	87
Failure to stop at railroad crossing, sec. 186	6	8	12	9
Failure to stop at intersection, sec. 187	74	185	338	683
Leaving vehicle improperly parked, sec. 192	817	826	639	18
Backing vehicle illegally, sec. 194	15	20	41	88
Operating motorcycle with more than one person, sec. 195	4	3	9	4
Failure to comply with requirements before moving vehicle, sec. 196	73	68	93	66
Improper control and operation of vehicle in canyon or defile, sec. 197	0	0	0	1
Coasting down grade with gears in neutral, sec. 198	-	-	1	0
Failure to observe fire vehicle safety, secs. 199, 200	4	3	2	3
Driving on sidewalk, sec. 201	5	6	11	31
Opening door requirements, sec. 204	5	8	6	8
Illegal depositing of articles on highway, sec. 205	172	188	240	169
Failure to wear seat belt assembly, sec. 217	182	1,071	3,765	12,007
Riding motorcycle without safety helmet, sec. 218	368	386	618	611
Other	1	0	0	0
	14,289	20,599	31,108	50,136
Under Motor Vehicle Act Regulations	10,850	13,167	13,130	6,103

Offences Committed by Juveniles 1977-1980
Licenced to Drive in B.C.

Offences	1977	1978	1979	1980
Under Motor Vehicle Act-				
Driving without obtaining driver's licence, sec. 23(1)	36	33	5	19
Driving without subsisting motor vehicle liability policy, sec. 23(3)	32	47	9	12
Driving motor vehicle otherwise than as restricted on driver's licence, sec. 24(7)	35	40	12	8
Driving without having driver's licence and liability card in possession at time, sec. 30	68	69	31	59
Driving while right to obtain licence is suspended, sec. 31(3)	0	0	0	1
Leaving the scene of an accident, sec. 62	12	9	5	11
Using licence belonging to another, refusing to show licence, sec. 64	6	13	3	8
Failing to obey emergency instructions of a peace officer, sec. 119	1	1	0	1
Failing to obey traffic control signal legend, secs. 130, 132, 133, 134, 136, 139, 163	682	726	305	287
Failing to obey special signs "re" highway construction, secs. 145, 146, 148	20	24	0	15
Careless driving, sec. 149	1,185	1,140	-	-
Driving without due care and attention, sec. 149(A)	-	-	206	216
Driving without reasonable consideration for others, sec. 149(B)	-	-	63	65
Driving too fast for road or weather conditions, sec. 149(C)	-	-	117	91
Slow driving, sec. 150	2	0	0	5
Exceeding maximum speed limits, sec. 151	5,470	5,414	2,185	2,006
Exceeding speed limit passing schools and playgrounds, sec. 152	362	330	94	136
Passing stopped school bus, sec. 153	6	12	3	6
Failure to drive on the right, sec. 154	93	78	22	15
Infractions of "lane" driving, secs. 155, 156, 157	146	156	73	57
Infractions of "passing," secs. 159, 160, 161, 162, 164, 165	297	238	105	93
Infractions of turning, starting and directional signals, secs. 166, 167, 168, 169, 170, 171, 172, 173, 174	117	147	37	36
Failure to yield right-of-way, secs. 175, 176, 177, 178, 179	241	248	68	86
Not exercising due care "re" pedestrians, secs. 181, 183	28	28	11	12
Failure to stop at railroad crossing, sec. 186	8	4	3	4
Failure to stop at intersection, sec. 187	523	528	202	181
Leaving vehicle improperly parked, sec. 192	11	7	1	0
Backing vehicle illegally, sec. 194	127	97	36	32
Operating motorcycle with more than one person, sec. 195	1	4	2	0
Failure to comply with requirements before moving of vehicle, sec. 196	3	2	1	1
Improper control and operation of vehicle in canyon or defile, sec. 197	1	0	0	1
Coasting down grade with gears in neutral, sec. 198	0	1	0	0
Failure to observe fire vehicle safety, secs. 199, 200	0	2	0	0
Driving on sidewalk, sec. 201	9	9	1	2
Opening door requirements, sec. 204	0	0	0	1
Illegal depositing of articles on highway, sec. 205	2	6	0	2
Failure to wear seat belt assembly, sec. 217	3	13	14	56
Riding motorcycles without safety helmet, sec. 218	11	13	2	2
Other	0	0	0	0
	9,539	9,439	3,616	3,527
Under Motor Vehicle Act Regulations	730	638	260	141

1980 TRAFFIC INCIDENTS BY POLICE JURISDICTIONS

KELOWNA SUBDIVISION RCMP

Police Jurisdiction Location	Total Incidents	Fatal Incidents		Injury Incidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/Location	Number	% of Total/Location	Number	% of Total/Location		
Armstrong	271	1	.37	63	23.25	207	76.38	2	91
Enderby	241	3	1.24	54	22.41	184	76.35	5	82
Falkland	124	1	.81	35	28.23	88	70.97	1	55
Kelowna (Rural)	1132	8	.71	288	25.44	836	73.85	8	457
Kelowna (Municipal)	2857	19	.67	551	19.29	2287	80.05	20	768
Keremeos	192	4	2.08	69	35.94	119	61.98	5	133
Lumby	220	3	1.36	58	26.36	159	72.27	3	85
Mica Creek	1	---	----	---	-----	1	100.00	---	---
Oliver	308	---	----	81	26.30	227	73.70	---	128
Osoyoos	241	4	1.66	47	19.50	190	78.84	5	69
Penticton (Rural)	264	4	1.52	80	30.30	180	68.18	5	120
Penticton (Municipal)	1013	1	.10	219	21.62	793	78.28	1	298
Princeton	578	17	2.94	165	28.55	396	68.51	20	274
Revelstoke	837	10	1.19	127	15.17	700	83.63	11	193
Salmon Arm (Rural)	178	3	1.69	44	24.72	131	73.60	3	84
Salmon Arm (Municipal)	569	3	.53	124	21.79	442	77.68	4	181
Sicamous	251	7	2.79	57	22.71	187	74.50	7	89
Summerland (Rural)	51	---	----	11	21.57	40	78.43	---	11
Summerland (Municipal)	169	1	.59	29	17.16	139	82.25	1	41
Vernon (Rural)	627	9	1.43	166	26.48	452	72.09	9	293
Vernon (Municipal)	1395	2	.14	237	16.99	1156	82.87	2	330
TOTALS	11519	100	.87	2505	21.75	8914	77.39	112	3782

1980 TRAFFIC INCIDENTS BY POLICE JURISDICTIONS

KAMLOOPS SUBDIVISION RCMP

Police Jurisdiction Location	Total Incidents	Fatal Incidents		Injury Incidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/Location	Number	% of Total/Location	Number	% of Total/Location		
Alexis Creek	110	---	----	22	20.00	88	80.00	---	33
Anahim Lake	54	---	----	14	25.93	40	74.07	---	17
Ashcroft	311	5	1.60	72	23.15	234	75.24	11	112
Barriere	157	2	1.27	54	34.39	101	64.33	2	78
Blue River	79	---	----	24	30.38	55	69.62	---	40
Chase	317	7	2.21	93	29.34	217	68.45	10	146
Clearwater	266	6	2.26	66	24.81	194	72.93	8	110
Clinton	189	5	2.65	43	22.75	141	74.60	5	79
Kamloops (Rural)	362	8	2.21	105	29.01	249	68.78	9	155
Kamloops (Municipal)	3097	14	.45	550	17.76	2533	81.79	18	803
Lillooet	276	5	1.81	67	24.28	204	73.91	7	122
Logan Lake	119	---	----	24	20.17	95	79.83	---	36
Lytton	156	7	4.49	36	23.08	113	72.44	10	60
Merritt (Rural)	240	3	1.25	58	24.17	179	74.58	3	95
Merritt (Municipal)	235	---	----	22	9.36	213	90.64	---	30
100 Mile House	577	9	1.56	117	20.28	451	78.16	10	215
Spences Bridge	97	4	4.12	29	29.90	64	65.98	6	53
Valemount	178	1	.56	31	17.42	146	82.02	1	53
Williams Lake (Rural)	638	8	1.25	173	27.12	457	71.63	8	299
Williams Lake(Municipal)	848	2	.24	102	12.03	744	87.74	3	159
TOTALS	8306	86	1.04	1702	20.49	6518	78.47	111	2695

1980 TRAFFIC INCIDENTS BY POLICE JURISDICTIONS

NELSON SUBDIVISION RCMP

Police Jurisdiction Location	Total Incidents	Fatal Incidents		Injury Incidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/Location	Number	% of Total/Location	Number	% of Total/Location		
Castlegar (Rural)	270	3	1.11	68	25.19	199	73.70	3	111
Castlegar (Municipal)	329	---	----	66	20.06	263	79.94	---	88
Cranbrook (Rural)	325	3	.92	73	22.46	249	76.62	4	122
Cranbrook (Municipal)	823	2	.24	104	12.64	717	87.12	2	130
Crescent Valley	159	1	.63	62	38.99	96	60.38	2	88
Creston	500	5	1.00	110	22.00	385	77.00	5	152
Fernie	436	4	.92	68	15.60	364	83.49	4	97
Field	70	1	1.43	15	21.43	54	77.14	1	25
Fruitvale	160	2	1.25	33	20.63	125	78.13	2	43
Golden	535	5	.93	91	17.01	439	82.06	5	146
Grand Forks	383	1	.26	91	23.76	291	75.98	1	131
Invermere	314	---	----	71	22.61	243	77.39	---	99
Kaslo	81	---	----	13	16.05	68	83.95	---	16
Kimberley (Rural)	144	2	1.39	31	21.53	111	77.08	2	42
Kimberley (Municipal)	202	---	----	36	17.82	166	82.18	---	47
Midway	154	2	1.30	33	21.43	119	77.27	2	58
Nakusp	174	2	1.15	53	30.46	119	68.39	2	78
Nelson	231	3	1.30	65	28.14	163	70.56	3	88
New Denver	61	---	----	8	13.11	53	86.89	---	11
Radium	193	3	1.55	22	11.40	168	87.05	7	36
Rossland	195	---	----	26	13.33	169	86.67	---	35
Salmo	195	4	2.05	39	20.00	152	77.95	5	63
Sparwood	363	3	.83	78	21.49	282	77.69	4	127
Trail (Rural)	138	1	.72	43	31.16	94	68.12	1	71
Trail (Municipal)	555	1	.18	76	13.69	478	86.13	1	111
TOTALS	6990	48	.69	1375	19.67	5567	79.64	56	2015

1980 TRAFFIC INCIDENTS BY POLICE JURISDICTION

PRINCE GEORGE SUBDIVISION RCMP

Police Jurisdiction Location	Total Incidents	Fatal Incidents		Injury Incidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/Location	Number	% of Total/Location	Number	% of Total/Location		
Burns Lake	288	5	1.74	42	14.58	241	83.68	5	59
Chetwynd	416	5	1.20	85	20.43	326	78.37	5	135
Dawson Creek (Rural)	361	10	2.77	99	27.42	252	69.81	11	165
Dawson Creek (Municipal)	788	--	--	88	11.17	700	88.83	--	127
Fort Nelson	456	6	1.32	83	18.20	367	80.48	7	134
Fort St. James	166	--	--	38	22.89	128	77.11	--	52
Fort St. John (Rural)	766	12	1.57	199	25.98	555	72.45	13	302
Fort St. John (Municipal)	1,208	2	.17	132	10.93	1,074	88.91	2	214
Fraser Lake	151	3	1.99	44	29.14	104	68.87	5	73
Hudson Hope	68	2	2.94	6	8.82	60	88.24	2	9
Mackenzie (Rural)	102	2	1.96	32	31.37	68	66.67	5	51
Mackenzie (Municipal)	176	--	--	15	8.52	161	91.48	--	20
McBride	158	5	3.16	51	32.28	102	64.56	6	84
Prince George (Rural)	594	8	1.35	173	29.12	413	69.53	8	296
Prince George (Municipal)	3,779	10	.26	526	13.92	3,243	85.82	11	748
Quesnel (Rural)	585	8	1.37	155	26.50	422	72.14	8	249
Quesnel (Municipal)	509	2	.39	91	17.88	416	81.73	2	119
Vanderhoof	334	5	1.50	79	23.65	250	74.85	7	133
Wells	26	--	--	7	26.92	19	73.08	--	7
Watson Lake	60	2	3.33	22	36.67	36	60.00	2	30
TOTALS	10,991	87	.79	1,967	17.90	8,937	81.31	99	3,007

1980 TRAFFIC INCIDENTS BY POLICE JURISDICTION

PRINCE RUPERT SUBDIVISION RCMP

Police Jurisdiction *Location*	Total Incidents	Fatal Incidents		Injury Incidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/Location	Number	% of Total/Location	Number	% of Total/Location		
Atlin	41	--	--	7	17.07	34	82.93	--	13
Bella Coola	74	--	--	18	24.32	56	75.68	--	31
Cassiar	76	1	1.32	21	27.63	54	71.05	1	36
Granisle	61	1	1.64	9	14.75	51	83.61	1	13
Hazelton	262	1	.38	68	25.95	193	73.66	1	105
Houston	387	6	1.55	61	15.76	320	82.69	7	108
Kitimat (Rural)	57	--	--	16	28.07	41	71.93	--	21
Kitimat (Municipal)	346	3	.87	68	19.65	275	79.48	4	109
Masset	118	--	--	24	20.34	94	79.66	--	40
New Aiyanish	14	--	--	3	21.43	11	78.57	--	7
Ocean Falls	12	--	--	1	8.33	11	91.67	--	1
Prince Rupert (Rural)	146	1	.68	27	18.49	118	80.82	1	45
Prince Rupert (Municipal)	928	2	.22	134	14.44	792	85.34	2	183
Queen Charlotte City	81	1	1.23	13	16.05	67	82.72	1	16
Smithers	556	5	.90	96	17.27	455	81.83	5	161
Stewart	102	3	2.94	22	21.57	77	75.49	3	37
Telegraph Creek	43	1	2.33	9	20.93	33	76.74	1	15
Terrace (Rural)	297	5	1.68	93	31.31	199	67.00	5	163
Terrace (Municipal)	488	--	--	78	15.98	410	84.02	--	102
Bella Bella	1	--	--	--	---	1	100.00	--	--
TOTALS	4,090	30	.73	768	18.78	3,292	80.49	32	1,206

1980 TRAFFIC INCIDENTS BY POLICE JURISDICTION

LOWER MAINLAND DISTRICT RCMP

Police Jurisdiction Location	Total Incidents	Fatal Incidents		Injury Incidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/Location	Number	% of Total/Location	Number	% of Total/Location		
Abbotsford (Rural)	19	--	--	4	21.05	15	78.95	--	4
Abbotsford (Municipal)	657	3	.46	150	22.83	504	76.71	3	208
Agassiz	330	4	1.21	96	29.09	230	69.70	4	168
Burnaby	8,529	14	.16	1,611	18.89	6,904	80.95	16	2,193
Boston Bar	244	13	5.33	66	27.05	165	67.62	17	107
Chilliwack (Rural)	155	2	1.29	49	31.61	104	67.10	2	72
Chilliwack (Municipal)	1,212	2	.17	214	17.66	996	82.18	3	313
Chilliwack (Township)	470	2	.43	108	22.98	360	76.60	2	147
Coquitlam (Rural)	127	1	.79	35	27.56	91	71.65	1	51
Coquitlam (Municipal)	2,332	3	.13	520	22.30	1,809	77.57	3	739
Maple Ridge (Rural)	275	2	.73	73	26.55	200	72.73	2	131
Maple Ridge (Municipal)	1,403	12	.86	300	21.38	1,091	77.76	18	447
Hope	693	8	1.15	155	22.37	530	76.48	11	261
Gibsons	321	2	.62	65	20.25	254	79.13	2	88
Langley City	1,009	4	.40	174	17.24	831	82.36	4	247
Langley Township	1,397	12	.86	366	26.20	1,019	72.94	12	529
Mission (Rural)	125	--	--	38	30.40	87	69.60	--	75
Mission (Municipal)	826	4	.48	200	24.21	622	75.30	4	301
North Vancouver City	1,883	3	.16	346	18.37	1,534	81.47	5	453
North Vancouver District	1,910	1	.05	341	17.85	1,568	82.10	1	447
Pemberton	105	3	2.86	39	37.14	63	60.00	6	58
Port Coquitlam	991	--	--	286	28.86	705	71.14	--	371
Richmond	4,883	11	.23	973	19.93	3,899	79.85	11	1,353
Sechelt	306	3	.98	76	24.84	227	74.18	3	108
Squamish (Rural)	217	4	1.84	82	37.79	131	60.37	4	140
Squamish (Municipal)	434	7	1.61	110	25.35	317	73.04	7	174
Surrey	7,104	25	.35	1,668	23.48	5,411	76.17	26	2,500
University	391	1	.26	75	19.18	315	80.56	1	92
Vancouver Marine	33	--	--	13	39.39	20	60.61	--	17
White Rock	465	2	.43	70	15.05	393	84.52	2	89
Unit "A" Freeway	627	4	.64	188	29.98	435	69.38	4	277
Unit "B" Freeway	1,181	7	.59	332	28.11	842	71.30	9	499
Unit "C" Freeway	353	5	1.42	110	31.16	238	67.42	5	156
Whistler	250	1	.40	34	13.60	215	86.00	1	54
TOTALS	41,257	165	.40	8,967	21.74	32,125	77.86	189	12,869

1980 TRAFFIC INCIDENTS BY POLICE JURISDICTION

VICTORIA SUBDIVISION RCMP

Police Jurisdiction Location	Total Incidents	Fatal Incidents		Injury Incidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/Location	Number	% of Total/Location	Number	% of Total/Location		
Chemainus	234	3	1.28	65	27.78	166	70.94	3	91
Colwood	1,106	11	.99	288	26.04	807	72.97	17	446
Duncan	812	5	.62	186	22.91	621	76.48	6	285
North Cowichan	383	5	1.31	90	23.50	288	75.20	6	150
Gabriola Island	62	--	--	11	17.74	51	82.26	--	16
Ganges	201	--	--	51	25.37	150	74.63	--	71
Ladysmith	316	3	.95	105	33.23	208	65.82	3	158
Lake Cowichan	121	3	2.48	27	22.31	91	75.21	4	41
Nanaimo (Rural)	334	3	.90	79	23.65	252	75.45	3	125
Nanaimo (Municipal)	2,907	8	.28	554	19.06	2,345	80.67	9	844
Pender Island	45	--	--	22	48.89	23	51.11	--	33
Shawnigan Lake	305	7	2.30	104	34.10	194	63.61	7	173
Sidney (Rural)	179	--	--	45	25.14	134	74.86	--	63
Sidney (Municipal)	268	--	--	40	14.93	228	85.07	--	55
Sooke	331	--	--	94	28.40	237	71.60	--	139
TOTALS	7,604	48	.63	1,761	23.16	5,795	76.21	58	2,690

1980 TRAFFIC INCIDENTS BY POLICE JURISDICTION

COURTENAY SUBDIVISION RCMP

Police Jurisdiction Location	Total Incidents	Fatal Incidents		Injury Incidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/Location	Number	% of Total/Location	Number	% of Total/Location		
Alert Bay	63	--	--	8	12.70	55	87.30	--	10
Campbell River (Rural)	474	2	.42	119	25.11	353	74.47	2	175
Campbell River (Mun.)	1,061	1	.09	179	16.87	881	83.03	1	252
Comox	161	--	--	23	14.29	138	85.71	--	29
Courtenay (Rural)	767	7	.91	204	26.60	556	72.49	9	308
Courtenay (Municipal)	707	2	.28	119	16.83	586	82.89	2	151
Gold River	139	2	1.44	34	24.46	103	74.10	4	47
Parksville	879	8	.91	227	25.82	644	73.27	9	349
Port Alberni (Rural)	423	3	.71	135	31.91	285	67.38	3	212
Port Alberni (Mun.)	945	2	.21	158	16.72	785	83.07	2	234
Port Alice	88	1	1.14	22	25.00	65	73.86	1	35
Port Hardy	400	2	.50	90	22.50	308	77.00	2	136
Port McNeill	201	1	.50	47	23.38	153	76.12	1	75
Powell River (Rural)	202	4	1.98	84	41.58	114	56.44	4	108
Powell River (Mun.)	497	1	.20	105	21.13	391	78.67	1	142
Quadra Island	57	--	--	12	21.05	45	78.95	--	19
Sayward	102	1	.98	27	26.47	74	72.55	1	41
Tahsis	94	--	--	15	15.96	79	84.04	--	21
Tofino	81	1	1.23	15	18.52	65	80.25	1	30
Ucluelet	146	3	2.05	34	23.29	109	74.66	6	54
TOTALS	7,487	41	.55	1,657	22.13	5,789	77.32	49	2,428

1980 TRAFFIC INCIDENTS BY POLICE JURISDICTIONS

MUNICIPAL FORCES

Police Jurisdiction Location	Total Incidents	Fatal Incidents		Injury Incidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/Location	Number	% of Total/Location	Number	% of Total/Location		
Vancouver	28616	62	.22	4276	14.94	24278	84.84	62	5805
Victoria	3610	6	.17	891	24.68	2713	75.15	6	1153
Saanich	2352	11	.47	653	27.76	1688	71.77	11	899
Central Saanich	240	---	----	58	24.17	182	75.83	---	83
Esquimalt	500	1	.20	126	25.20	373	74.60	1	159
Oak Bay	343	1	.29	73	21.28	269	78.43	1	82
Delta	2195	6	.27	412	18.77	1777	80.96	6	570
Matsqui	1612	7	.43	413	25.62	1192	73.95	7	629
New Westminster	2947	9	.31	530	17.98	2408	81.71	9	756
West Vancouver	1724	1	.06	332	19.26	1391	80.68	1	466
Nelson	464	1	.22	57	12.28	406	87.50	1	80
Port Moody	651	---	----	132	20.28	519	79.72	---	179
TOTALS	45254	105	.23	7953	17.57	37196	82.19	105	10861

1980 TRAFFIC INCIDENTS BY POLICE JURISDICTION

OTHER POLICE FORCES

Police Jurisdiction Location	Total Incidents	Fatal Incidents		Injury Incidents		Property Damage		Victims Killed	Victims Injured
		Number	% of Total/Location	Number	% of Total/Location	Number	% of Total/Location		
National Harbours Board	21	--	--	2	9.52	19	90.48	--	2
B.C. Highway Patrol ---	13	--	--	1	7.69	12	92.31	--	1
Military Police -------	45	--	--	10	22.22	35	77.78	--	14
TOTALS	79	--	--	13	16.46	66	83.54	--	17

INCIDENTS AND VICTIMS BY MONTH DURING 1980

MONTH	FATAL INCIDENTS	VICTIMS KILLED	PERSONAL INJURY INCIDENTS	VICTIMS INJURED	PROPERTY DAMAGE INCIDENTS	NUMBER OF VEHICLES	PEDESTRIANS INVOLVED	PEDESTRIANS KILLED	TOTAL NUMBER OF INCIDENTS
JANUARY	32	37	1788	2608	9266	20110	205	9	11086
FEBRUARY	34	42	1958	2758	8489	19041	226	12	10481
MARCH	47	53	1999	2903	8165	18672	207	11	10211
APRIL	53	59	2108	3055	7670	17975	179	6	9831
MAY	59	65	2485	3603	8874	20744	197	5	11418
JUNE	60	65	2599	3759	9030	21119	171	4	11689
JULY	82	94	2644	3849	9327	22019	170	12	12053
AUGUST	86	103	2786	4113	9283	22001	199	15	12155
SEPTEMBER	77	86	2471	3627	9603	22402	203	13	12151
OCTOBER	66	76	2669	3792	10336	23976	249	9	13071
NOVEMBER	62	72	2844	4143	11755	26713	321	17	14661
DECEMBER	52	59	2317	3360	12401	27248	259	10	14770
TOTALS	710	811	28668	41570	114199	262020	2586	123	143577

TYPE OF SAFETY EQUIPMENT USED BY DRIVERS AND PASSENGER IN INCIDENTS 1980

Safety Equipment	Drivers							Passengers						
	Property Damage		Injury Incidents		Fatal Incidents		Total Drivers	Property Damage		Injury Incidents		Fatal Incidents		Total Passengers
	# of Drivers	% of Total Drivers	# of Drivers	% of Total Drivers	# of Drivers	% of Total Drivers		# of Passengers	% of Total Passengers	# of Passengers	% of Total Passengers	# of Passengers	% of Total Passengers	
Unknown -------	5555	4.10	2696	1.99	116	.09	8367	2058	2.92	1458	2.07	94	.13	3610
None in Vehicle	3504	2.58	2729	2.01	89	.07	6322	2360	3.35	1962	2.79	64	.09	4386
Not Used ------	17081	12.59	9274	6.84	430	.32	26785	12726	18.08	9730	13.83	481	.68	22937
Lap Belt Only--	25129	18.53	8984	6.62	100	.07	34213	12632	17.95	5576	7.92	71	.10	18279
Harness Only --	2161	1.59	763	.56	10	.01	2934	610	.87	282	.40	7	.01	899
Harnes & Lap --	41608	30.68	14683	10.83	166	.12	56457	13494	19.17	5863	8.33	81	.12	19438
Air Bag -------	11	.01	3	.00	[illegible]	.00	14	14	.02	13	.02	0	.00	27
Child Restraint	---	---	---	---	---	---	---	485	.69	220	.31	3	.00	708
Helmet --------	75	.06	444	.33	23	.02	542	10	.01	82	.12	2	.00	94
TOTALS	95124	70.13	39576	29.18	934	0.69	135634	44389	63.07	25186	35.79	803	1.14	70378

NUMBER OF VEHICLES INVOLVED IN INCIDENTS BY VEHICLE TYPE DURING 1980

	VEHICLE TYPE	PROPERTY DAMAGE INCIDENTS	% OF TOTAL VEHICLE TYPE	INJURY INCIDENTS	% OF TOTAL VEHICLE TYPE	FATAL INCIDENTS	% OF TOTAL VEHICLE TYPE	TOTAL VEHICLES
	Passenger car	147,317	80.39	35,332	19.28	598	.33	183,247
	Car and trailer	829	79.41	213	20.40	2	.19	1,044
	Single unit truck, light	31,976	81.09	7,230	18.33	228	.58	39,434
*	Single unit truck, heavy	3,039	82.05	643	17.36	22	.59	3,704
	Light truck/trailer	663	83.29	129	16.21	4	.50	796
*	Heavy truck/trailer	847	81.52	183	17.61	9	.87	1,039
*	Tractor trailer	2,003	76.42	574	21.90	44	1.68	2,621
*	Tractor trailer and pup	267	68.99	100	25.84	20	5.17	387
	School bus	140	81.87	30	17.54	1	.58	171
	Public bus	686	80.23	165	19.30	4	.47	855
	Motorcycle	771	28.22	1,895	69.36	66	2.42	2,732
	Moped	3	12.00	22	88.00	0	0.00	25
	Bicycle	153	11.29	1,187	87.60	15	1.10	1,355
	Camper	3,124	81.10	715	18.56	13	.34	3,852
	Camper/trailer	151	75.89	44	22.11	4	2.01	199
	Motor home	601	81.66	127	17.26	8	1.09	736
	Motor home/trailer	197	86.01	31	13.54	1	.44	229
	Trailer only	97	83.62	19	16.38	0	0.00	116
	All Terrain Vehicles							
	Snow Mobiles	12	48.00	10	40.00	3	12.00	25
	Four Wheel Driver	420	79.25	108	20.38	2	.38	530
	All Terrain Vehicles Other	6	35.29	8	47.06	3	17.65	17
	Farm Vehicles	39	75.00	9	17.31	4	7.69	52
	Construction vehicles	88	86.27	13	12.75	1	.98	102
	Special vehicles	148	86.55	22	12.87	1	.58	171
	Vehicles Unidentified	18,231	98.12	341	1.84	9	.05	18,581
	TOTALS	211,808	80.84	49,150	18.76	1,062	.41	262,020

* These vehicles are defined as weighing 10,900 kg or over

MOTOR VEHICLE INCIDENT FATAL AND INJURY VICTIMS BY AGE 1980

	Fatal Victims				Injury Victims			
Age	Male	Female	Unknown	Total	Male	Female	Unknown	Total
Unknown	22	5	0	27	937	731	77	1,745
1 - 5	10	4	0	14	471	418	0	889
6 - 10	12	7	0	19	615	474	0	1,089
11 - 15	22	10	0	32	989	936	0	1,925
16 - 20	128	40	0	168	6,889	3,797	3	10,689
21 - 25	119	28	0	147	4,622	2,559	2	7,183
26 - 30	44	13	0	57	2,837	1,739	1	4,577
31 - 35	59	12	0	71	1,833	1,324	1	3,158
36 - 40	26	17	0	43	1,216	971	0	2,187
41 - 45	25	10	0	35	877	722	1	1,600
46 - 50	20	11	0	31	769	680	0	1,449
51 - 55	19	7	0	26	666	642	0	1,308
54 - 60	18	10	0	28	520	659	1	1,180
61 - 65	24	9	0	33	409	491	0	900
66 - 70	16	5	0	21	360	368	0	728
71 - 75	6	10	0	16	224	236	0	460
76 - 80	14	10	0	24	154	152	1	307
81 - 85	5	4	0	9	58	79	0	137
86 - 90	5	4	0	9	23	25	0	48
91 - 95	0	0	0	0	4	7	0	11
96 & over	0	1	0	1	0	0	0	0
TOTALS	594	217	0	811	24,473	17,010	87	41,570

NUMBER OF VEHICLES INVOLVED IN INCIDENTS 1980
BY MONTH

MONTH	PDO	INJURY	FATAL	TOTAL
JANUARY ----------	17015	3049	46	20110
FEBRUARY ----------	15653	3339	49	19041
MARCH ----------	15188	3422	62	18672
APRIL ----------	14287	3604	84	17975
MAY ----------	16433	4217	94	20744
JUNE ----------	16675	4361	83	21119
JULY ----------	17331	4577	111	22019
AUGUST ----------	17150	4724	127	22001
SEPTEMBER ----------	17934	4357	111	22402
OCTOBER ----------	19266	4607	103	23976
NOVEMBER ----------	21756	4861	96	26713
DECEMBER ----------	23120	4032	96	27248
TOTALS	211808	49150	1062	262020

1980 MOTOR VEHICLE TRAFFIC INCIDENT FREQUENCIES**

The following table gives a summary of the incident frequency during the period 1968 to 1980

Year	Motor Vehicles Licenced	Number of Incidents	Incidents Per 1,000 Vehicles Licenced	Injuries	Deaths	Deaths per 10,000 Vehicles Licenced	Deaths Per 100 Million Km	Fatal Incidents	Fatal Incidents Per 100 Million Km
1968	917,872	58,300	63.51	20,945	574	6.2	4.57	460	3.66
1969	989,196	70,624	71.39	22,535	542	5.4	3.97	467	3.42
1970	1,024,738	60,778	59.35	22,568	559	5.5	4.16	471	3.51
1971	1,087,992	59,745	54.91	22,340	636	5.8	4.04	538	3.83
1972	1,164,749	59,996	51.51	23,316	716	6.1	4.28	602	3.59
1973	1,248,422	69,564	56.00	27,709	825	6.7	4.46	698	3.77
1974	1,333,891	84,445	63.30	28,699	844	6.3	4.23	718	3.60
1975	1,349,382	85,601	63.44	25,003	717	5.3	3.53	593	2.92
1976	1,411,380	84,158	59.65	25,239	630	4.5	3.01	541	2.59
1977	1,556,262	115,046	73.92	31,942	718	4.6	3.20	617	2.76
1978	1,651,274	112,635	68.21	33,105	640	3.9	2.69	553	2.32
1979	1,800,486	123,863	68.79	37,809	738	4.1	2.92	628	2.49
1980	1,880,382	143,577	76.35	41,500	811	4.3	3.38	710	2.96

The number of incidents in 1980 increased to 143,577 up from 123,863 in 1979. In 1980 there were 710 fatal incidents and 811 deaths, an increase from 1979 figures which shows 628 incidents and 738 deaths.

** *Reportable incidents are those where the aggregate property damage exceeds $200 or a person is injured or killed. During 1977 a new* Traffic Incident Reporting system was introduced and as a result, a higher number of incidents were reported. Prior to 1977 incident data was obtained from driver completed forms. The new system now obtains data from forms completed by the police. Due to the significant change in the way reports are submitted, a comparison between data previous to 1977 and data of 1977 should not be attempted.

COMMERCIAL TRANSPORT DIVISION

This Division operates 40 permanent weigh scales throughout the Province, located at strategic points along the main highway system. Thirty-six of the scales are manned on a regular basis with certain border scales being operated on a 24-hour seven-day week basis.

The Division also has 19 portable patrols to monitor commercial vehicles in areas where there are no permanent weigh scales. Portable patrols also monitor logging trucks through weight data compiled and recorded by Ministry of Forests personnel. During 1980 approximately 640,000 logging loads were monitored through this procedure.

In addition to monitoring and checking commercial vehicles, weighmasters issue various types of permits, such as temporary operation, non-resident, motive-fuel use, highway crossing, over-weight and oversize.

Weighmasters are required to enforce the provisions of numerous statutes pertaining to the operation of commercial vehicles. They are empowered to lay charges under the *Commercial Transport Act, Motor Carrier Act, Motor Vehicle Act, Highway Act, Motive Fuel Use Tax Act,* and the *Motor Vehicle Transport Act* (Canada).

Two new permanent weigh scale facilities were completed north of Duncan. These new facilities will improve highway safety as they eliminate the need for commercial vehicles to cross the traffic flow in order to enter or leave the weigh scale area. A replacement facility was opened at Fort Nelson. This relocation moved the weigh scale from the downtown area to the industrial area south of the village.

The Quesnel weigh scale was relocated to accommodate the upgrading of Highway 97 north of town. The yard area at the new location was totally paved to accommodate the safe movement of commercial vehicles as well as provide a safe working area for inspections as performed by Motor Vehicle Branch personnel and the R.C.M.P.

Statistics for the Branch for the year 1980 are as follows:

Commercial vehicles checked (excluding logging trucks)	2,360,581
Logging trucks checked through Forestry data (1979 calendar year)	641,667
Prosecutions entered	11,047
Violation notices (warnings) issued	6,251

PERMITS ISSUED

Term, short term and single trip (oversize and/or overweight)	75,385
Non-resident	58,410
Temporary operation	34,848
Motive-fuel	20,065
Restricted route	5,314
Highway crossing	3,154
Special temporary	1,679
I.C.B.C. (Non-resident and temporary operation)	46,027
Total Permits Issued	244,882

REVENUE COLLECTED, 1980—(Approximate)

Oversize and overweight permits	$1,450,815
Non-resident permits	1,245,287
Temporary operation permits	108,685
Restricted route permits	146,779
Highway crossing permits	60,816

Special temporary permits	5,319
Supplementary fees	13,861
Motive-fuel permits	329,021
I.C.B.C. insurance	534,724
Total Revenue	$3,895,309

TRANSPORT POLICY ANALYSIS BRANCH

The Branch continues to play an expanding role in the activities of the Ministry related to Provincial transport policy development. Its research, analytical and reporting activities on a wide variety of transport matters, together with liaison with the Federal Government and transport industry as a whole, lends added support to the policy development role and assists administration of various programs in railway, marine, surface and air transport modes.

An integral part of overall policy development is an examination initiated by the Branch of all modes of transport on Vancouver Island and between the Island and the Mainland. This project is to develop an integrated set of plans and policies for transport services for the Island region to serve as a "blueprint" of its direction over the next 10–15 years.

Within the Vancouver Island Transportation Project framework, a special study has been undertaken of potential port sites for coal shipping facilities. This sub-study is a preliminary inventory of physical characteristics of port sites, environmental and land use considerations, sea transportation and land access factors.

For the rail mode, the Branch has monitored freight rate structures, rail abandonment proposals, double-tracking projects and passenger services on Canada's federally regulated railways over the past year. Involvement is ongoing in CTC reviews of the Uniform Classification of Accounts and the Railway Cost Order to ensure that any changes made will be beneficial to rail service users as well as the railways. The Branch also keeps a watching brief on passenger service operations of the Esquimalt and Nanaimo Railway and other VIA and AMTRAK services.

With respect to the British Columbia Railway, an operating subsidy formula has been developed for operating losses on the Fort Nelson Extension operation. A capital rehabilitation program for the Fort Nelson Extension (FNE) administered by the Branch over the past three years totalling approximately $42 million will be completed in 1981. A major study on the future of passenger operations on the British Columbia Railway was also initiated subsequent to the government decision to have the Railway continue passenger services.

In marine matters, support was given during the year to provincial negotiations and discussions with other provinces, private business and federal authorities on new terminal facilities for coal and grain at Ridley Island/Prince Rupert and the expansion of coal facilities at Roberts Bank.

A separate review has commenced of the present ports systems, as part of the development of a Provincial policy on the Pacific Coast Ports. This work addresses the planning, development and administration of the three categories of national, regional and local ports.

The Branch also monitors current federal ideas and initiatives for restructuring the ports administration system, and continues consultation with federal officials on other matters relating to shipping and navigation, tanker regulations, amendments to the *Canada Shipping Act*, merchant marine and coasting trade proposals.

British Columbia's role in the Federal Government's Urban Transportation Assistance Program is coordinated by the Branch. At this time, six projects are underway and an additional 25 projects have received federal approval-in-principle. Total federal funds available under the program for this Province were approximately $24.5 million for a five-year period. Partly at the urging of British Columbia, the life of the program has been extended for an additional year adjusting the completion date to March 31, 1984.

The Branch participates in inter-ministerial reviews of major resource projects. In addition to road and rail infrastructure requirements for Northeast Coal development, the Branch carried out the transportation analysis for the Hat Creek Coal Liquifaction project and provided input on the LNG/petrochemical proposal. The transportation implications of the proposed Alaska Highway Gas Pipeline and other pipeline proposals are being monitored.

The Branch liaises with federal government and air industry representatives on such matters as Short Take-Off and Landing (STOL) services, airport site location and technical requirements,

ederal airport administration, Canada-Europe bilateral agreement negotiations, aviation policy nd air service systems development. Two major presentations were made during the year to ederal bodies on aviation issues. The first submission recommending air navigation system nprovements went to the Dubin Inquiry on Aviation Safety at its hearing in Cranbrook. The econd submission concerned air service licence applications before the Air Transport Commit-ee, CTC, public hearings in Vancouver.

In addition the Branch administers the Air Transport Assistance Program (ATAP) which is a rant-in-aid program designed to encourage and reinforce development of air transport services ithin the Province by assisting in the development of community airport facilities. During the 980/81 fiscal year, 15 applications were received, 21 projects, including nine ongoing projects om previous fiscal years, were reviewed and recommended for award of funds. Funds expended rought the Program total $4.1 million. Projects undertaken through this Program are expected to ave a positive impact on the social and economic circumstances of the respective communities.

FISCAL YEAR 1980/81

.. *Demand on Programs*

1. Total starting budget	$4,139,568.00
2. Awards to Municipal Governments	$2,963,000.00
3. Projects undertaken by Government Ministries	$1,002,000.00
4. Program administration	$174,568.00
Balance	*Nil*

. *Program's Contribution to the Economy*

It is estimated that the $4.1 million expended through the Program has contributed to the Provincial economy in the following manner:

1. Creation of approximately 891 man-months of labour (74 man-years).
2. Expenditure of approximately $1,582,000 on materials.
3. Expenditure of approximately $565,000 for professional services.

The following listing indicates the projects which have received funding through the Air Transport Assistance Program during the 1980/81 fiscal year.

AIR TRANSPORT ASSISTANCE PROGRAM

GRANTS APPROVED

1980 - 81 FISCAL YEAR

AIRPORT LOCATION AND APPLICANT FOR AID	APPROVED PROJECT ITEMS	GRANT AND DATE OF AWARD
Atlin District Board of Trade	Construction of new 4000' runway	$300,000 (80/07/21)
Bella Coola Central Coast Regional District	Improvement of dykes adjacent to airport to protect against flooding	$106,000 (81/03/31)
Chetwynd Village	Master Plan study of airport and need for upgraded facilities	$ 15,000 (80/08/19)
Creston Town	(1) Construction of 4000' gravel runway	$400,000 (80/07/21)
	(2) Complete construction of gravel runway, groundside facilities	$255,000 (81/02/19)
Dawson Creek City	Complete upgrading project at float plane base	$ 24,000 (80/10/29)
Dease Lake Ministry of Transportation and Highways	(1) Construct realigned 5000' gravel runway	$450,000 (80/07/21)
	(2) Completion of access road, runway, taxiways and apron to gravel standard	$437,000 (80/08/19)
East Kootenay Regional District	Site location and feasibility study for Crowsnest Pass area airport	$ 15,000 (80/10/01)
Fort Ware Band Council	Purchase and transportation of medium sized bulldozer to Fort Ware	$ 88,000 (81/03/11)
Fraser Lake Village	Upgrade existing 4000' strip to public license standard	$100,000 (80/09/21)

PORT LOCATION D APPLICANT FOR AID	APPROVED PROJECT ITEMS	GRANT AND DATE OF AWARD
ston trict	Extend 3500' gravel runway to 4000' and pave, terminal building	$175,000 (80/07/21)
Creek istry of Forests	Second stage in construction of new 3900' gravel runway, apron, passenger shelter	$115,000 (80/08/21)
.ooet .age	(1) Construct new 4000' gravel airstrip	$425,000 (80/07/21)
	(2) Completion of runway to gravel standard. Access road development	$265,000 (81/02/19)
Hardy .age	Site location and feasibility for standard	$ 25,000 (80/10/01)
McNeill age	Upgrading of 2000' strip to a licensable standard	$ 75,000 (80/10/01)
ll River rict	Relocate fuel facility fire equipment, enlarge parking apron	$140,000 (80/12/31)
lstoke mbia-Shuswap onal District	Site development plan, upgrade terminal building	$ 50,000 (80/07/21)
on Arm rict	Complete realignment and pave 4000' runway	$400,000 (80/07/04)
elt age	Site development plan	$ 15,000 (80/07/21)
da Island ll River onal District	Additional tree clearing and earthwork to meet Class "D" license standards	$ 20,000 (81/03/31)
l	Water well, perimeter fencing at airport	$ 50,000 (80/12/31)

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