Controlling officer: the Director of Highways will account for expenditure under this Head.

Estimate 2006–07	\$1,950.8m
<b>Establishment ceiling 2006–07</b> (notional annual mid-point salary value) representing an estimated 1 888 non-directorate posts as at 31 March 2006 reducing by 19 posts to 1 869 posts as at 31 March 2007	\$580.6m
In addition, there will be an estimated 37 directorate posts as at 31 March 2006 reducing by three posts to 34 posts as at 31 March 2007.	
Commitment balance	<b>\$1.2</b> m

# **Controlling Officer's Report**

# Programmes

Programme (1) Capital Projects	This programme contributes to Policy Area 21: Transport (Secretary for the Environment, Transport and Works) and Policy Area 23: Environmental Protection and Conservation (Secretary for the Environment, Transport and Works).
Programme (2) District and Maintenance Programme (3) Railway Development Programme (4) Technical Services	These programmes contribute to Policy Area 21: Transport (Secretary for the Environment, Transport and Works).

Detail

## **Programme (1): Capital Projects**

	2004–05 (Actual)	2005–06 (Original)	2005–06 (Revised)	2006–07 (Estimate)
Financial provision (\$m)	290.0	267.8	263.6 (-1.6%)	<b>268.6</b> (+1.9%)
				(ar + 0.3% an)

(or +0.3% on 2005–06 Original)

# Aim

2 The aim is to expand and improve the road network in order to meet the growth in traffic demand, serve new development areas and facilitate the movement of people and goods across the boundary in accordance with approved programmes and at the same time contribute towards sustainable development.

## **Brief Description**

**3** The Department is responsible for the implementation of highway projects in the Public Works Programme. This involves the planning, investigation, design and supervision of the construction of roads, bridges and traffic noise mitigation measures, using in-house resources as well as consultants.

**4** In 2005, the Department's performance was satisfactory. The Department spent about \$6.7 billion on the following road infrastructure projects:

Works commenced —

• improvements to San Tin Interchange.

Works in progress -

- Deep Bay Link for completion in early 2006;
- widening of Yuen Long Highway between Lam Tei and Shap Pat Heung Interchange for completion in early 2006;
- improvement to Castle Peak Road between Tsuen Wan Area 2 and Siu Lam;
- Ngong Shuen Chau Viaduct, East Tsing Yi Viaduct, Nam Wan Tunnel, West Tsing Yi Viaduct and Stonecutters Bridge of Route 8 between Tsing Yi and Cheung Sha Wan;
- Lai Chi Kok Viaduct and Eagle's Nest Tunnel of Route 8 between Cheung Sha Wan and Sha Tin;
- Traffic Control and Surveillance System of Route 8 between Tsing Yi and Sha Tin;

- retrofitting of noise barriers on Fanling Highway near Choi Yuen Estate and Fanling Centre;
- improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha; and
- · reconstruction of Causeway Bay Flyover and associated widening of Victoria Park Road.

- · Hong Kong section of the Hong Kong-Shenzhen Western Corridor.
- 5 On the planning side, the Department has:
- commenced public consultation for the North Lantau Highway Connection for the Hong Kong-Zhuhai-Macao Bridge;
- commenced feasibility studies for Tuen Mun Eastern Bypass, Tuen Mun-Chek Lap Kok Link and Tuen Mun Western Bypass;
- · commenced feasibility study for traffic improvement to Tuen Mun Road town centre section; and
- commenced a preliminary engineering review of the Central Kowloon Route and widening of Gascoigne Road Flyover.
- 6 The key performance measures are:

### Targets

	Target	2004 (Actual)	2005 (Actual)	2006 (Plan)
maintain cost of capital projects within approved project estimate (%) capital projects with expenditure incurred	100	100	100	100
in the scheduled year (%) works contracts commenced in	100	100	98	100
accordance with agreed programmes (%) works contracts completed in accordance	90	100	100	90
with agreed programmes (%)	95	100	100	95
Indicators				
		2004 (Actual)	2005 (Actual)	2006 (Estimate)
capital projects under design and construction b in-house staff	у			
(no.) (\$m) consultants		87 8,282	80 7,688	75 7,400
(no.) (\$m) expenditure in the year on capital projects unde		197 116,397	190 111,880	180 109,000
construction by in-house staff (\$m)		796	726	730
consultants (\$m) works contracts commenced works contracts completed		5,767 20 17	7,032 13 12	4,800 10 16

#### Matters Requiring Special Attention in 2006–07

- 7 During 2006–07, the Department will:
- monitor closely the construction progress of the following key highway projects:
  - improvements to San Tin Interchange;
  - improvement to Castle Peak Road between Tsuen Wan Area 2 and Siu Lam;
  - Ngong Shuen Chau Viaduct, East Tsing Yi Viaduct, Nam Wan Tunnel, West Tsing Yi Viaduct and Stonecutters Bridge of Route 8 between Tsing Yi and Cheung Sha Wan;
  - Lai Chi Kok Viaduct and Eagle's Nest Tunnel of Route 8 between Cheung Sha Wan and Sha Tin;
  - Traffic Control and Surveillance System of Route 8 between Tsing Yi and Sha Tin;

- improvement to Tung Chung Road between Lung Tseng Tau and Cheung Sha; and
- reconstruction of Causeway Bay Flyover and associated widening of Victoria Park Road.
- liaise with relevant departments and prepare for the commissioning of Hong Kong-Shenzhen Western Corridor;
- continue to pursue the design of Central-Wanchai Bypass and Island Eastern Corridor Link, reconstruction and improvement of Tuen Mun Road, and widening of Tolo Highway between Island House interchange and Lam Kam Road interchange;
- continue with the planning of the Central Kowloon Route and widening of Gascoigne Road Flyover;
- continue to assist in the preparatory work for the Hong Kong-Zhuhai-Macao Bridge project;
- continue with the preliminary design and preparatory work for the North Lantau Highway Connection for the Hong Kong-Zhuhai-Macao Bridge; and
- continue with the investigation of new highway projects in the overall framework of the North West New Territories transportation infrastructure development.

#### **Programme (2): District and Maintenance**

	2004–05	2005–06	2005–06	2006–07
	(Actual)	(Original)	(Revised)	(Estimate)
Financial provision (\$m)	1,039.5	1,033.7	1,040.4 (+0.6%)	<b>1,045.7</b> (+0.5%)

(or +1.2% on 2005–06 Original)

#### Aim

8 The aim is to maintain the integrity of the road network with particular emphasis on safety and serviceability, ensure that the road infrastructure is not adversely affected by public or private sector developments and implement local road infrastructural works to fit in with progress of development.

#### **Brief Description**

**9** The Department is responsible for the maintenance of all public roads, including road furniture, road drainage and roadside slopes. Other major areas of responsibility include co-ordination and control of utility openings on public roads, attendance to emergencies such as typhoons, rainstorms, landslips and road subsidence, minor improvements to roads and reconstruction or rehabilitation of road pavements.

10 The Department is involved in the planning and administration of road infrastructure through commenting on town plans, land allocations and leases, and public and private sector development proposals. It also provides technical advice to government and private sector developers on road matters and carries out local road works to match development.

11 In 2005, the Department's performance was satisfactory.

**12** The key performance measures are:

### Targets

Target	2004 (Actual)	2005 (Actual)	2006 (Plan)
			100
100	99.9	100	100
100	99.9	100	100
100	100	100	100
100	100	100	100
100	99.9	100	100
100	100	100	100
100	100	100	100
	100 100 100 100	Target(Actual)10099.910099.910010010010010099.9100100100100	Target         (Actual)         (Actual)           100         99.9         100           100         99.9         100           100         100         100           100         100         100           100         100         100           100         100         100           100         100         100           100         100         100           100         100         100

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# Head 60 — HIGHWAYS DEPARTMENT

	Target	2004 (Actual)	2005 (Actual)	2006 (Plan)
carry out safety inspections on trunk roads (by vehicle) once every seven days (%)	100	100	100	100
carry out safety inspections on primary distributors (by vehicle) once per month (%) inspect/clean traffic signs, directional	100	100	100	100
signs and remove overgrown vegetation on expressways at least twice per year (%)	100	100	100	100
inspect/clean street name plates, traffic signs, directional signs, railings, barriers and planter walls at black spots at least once per quarter (%)Ω inspect/clear exclusive road drains at	100	100	100	100
black spots at least once per quarter (%) $\Omega$ comply fully with excavation permit	100	100	100	100
conditions to enhance safety (%)@	90		99.9	90

 $\Psi$  The target frequency is revised from once every seven days to once per month with effect from 2006 after reviewing the level of service corresponding to the road hierarchy in the territory so as to put more focus on expressways and trunk roads. The actual figures in 2004 and 2005 refer to the achievement under the target frequency of once every seven days.

 $\Omega$  The target frequency has been revised from at least twice per year to at least once per quarter with effect from 2005. The actual figures in 2004 refer to the achievement under the target frequency of at least twice per year.

(a) Target introduced as from 2005.

## Indicators

	2004 (Actual)	2005 (Actual)	2006 (Estimate)
total area of roads maintained (million m <sup>2</sup> )	22.3	22.5	22.7
expenditure on highways maintenance (\$m)	840	778	785
	90	106	
expenditure on roadside slope works (\$m)	90	100	118
expenditure on road reconstruction, rehabilitation,	220	275	2(0
resurfacing, and joint replacement works (\$m)	229	275	260
expenditure on road cleanliness, streetscape enhancement	110	107	
and greening of shotcreted slopes (\$m)	118	127	114
complaints relating to road maintenance	5 499	5 870	5 500
excavation/road work permits authorised	42 741	39 949	40 000
average duration of road excavation works per excavation			
permit (day)	37	40	40
inspections carried out on utility excavation	81 619	92 227	92 000
items of non-compliance with excavation permit conditions			
per total no. of items inspected (%)	3	2	2
unattended sites for utility excavations per total no. of	5	2	-
	1	0.5	0.5
excavation permits (%)	21.0(1		
submissions and development proposals checked	21 861	20 646	21 200
incidents of damage to underground utilities by utility			
excavations and road works per total no. of excavation			
permits (%)	1	0.6	0.6
excavation permits extended	3 204	1 283	1 300

# Matters Requiring Special Attention in 2006–07

- 13 During 2006–07, the Department will:
- continue to contribute to improving road cleanliness;
- improve the appearance and safety of roadside slopes by an enhanced maintenance programme;
- monitor and enhance the performance of the Utility Management System to facilitate control and co-ordination of utilities road opening works;
- administer road excavation activities under the Land (Miscellaneous Provisions) Ordinance;

- comment on roadwork proposals and land allocations, and monitor and implement roadwork associated with developments, in particular, those related to housing and schools;
- · assist in implementing pedestrian schemes; and
- · strengthen roadside barriers and bridge parapets to enhance safety.

#### **Programme (3): Railway Development**

	2004–05 (Actual)	2005–06 (Original)	2005–06 (Revised)	2006–07 (Estimate)
Financial provision (\$m)	71.0	75.1	73.5 (-2.1%)	<b>72.2</b> (-1.8%)
				(or -3.9% on 2005–06 Original)

### Aim

14 The aim is to implement the Railway Development Strategy and formulate plans for the further development of the railway network.

## **Brief Description**

15 The Department is required to plan, monitor and co-ordinate the various activities associated with the implementation of new railway projects including the associated Essential Public Infrastructure Works. It has to liaise with the two railway corporations to develop detailed schemes for the railways, undertake necessary route protection and preparatory work, and resolve interface issues arising from the implementation of these projects.

16 The Department will co-ordinate with other departments concerned for approval of the infrastructural layout design for the various new railways and their interface arrangements with other projects, and take part in site liaison for traffic diversion and other construction matters, as well as issues on the commissioning and operation of the railways.

17 The Department is responsible for carrying out studies to formulate plans for the further development of the railway network to cater for the sustainable social, economic, land and housing development of Hong Kong.

18 In 2005, the Department's performance was satisfactory. In general, all targets were met. In terms of new railway projects, the Disneyland Resort Line commenced operation in August 2005 to tie in with the opening of Hong Kong Disneyland. The construction of the Sheung Shui to Lok Ma Chau Spur Line commenced in October 2002 for completion by 2007. The construction of the Kowloon Southern Link commenced in August 2005 for completion by 2009.

**19** Regarding railway projects under planning, the MTR Corporation Limited (MTRCL) submitted the West Island Line Project Proposal in February 2005 and the Government invited the MTRCL to proceed with the preliminary planning and design of the project in June 2005. The planning of the Sha Tin to Central Link is being reviewed in the context of the proposed merging of the MTRCL and Kowloon-Canton Railway Corporation (KCRC). The Regional Express Line under planning is being taken forward as part of the Guangzhou-Shenzhen-Hong Kong Express Rail Link. The Government is examining the use of the West Rail and the proposed Northern Link and Kowloon Southern Link to form the Hong Kong section of the Express Rail Link. The KCRC has submitted a feasibility study report which is being considered by the Government.

20 The key performance measures are:

### Targets

	Target	2004 (Actual)	2005 (Actual)	2006 (Plan)
ensure timely completion of the Disneyland Resort Line project to tie in with the opening of Hong Kong				
Disneyland (cumulative % completed) ensure timely completion of the Sheung Shui to Lok Ma Chau Spur Line for opening by 2007 (cumulative %	100	80	100	—
completed) formulate, negotiate and agree detailed implementation plans for the Sha Tin to Central Link (cumulative %	95	62	89	95
completed)	90	60	70	90

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# Head 60 — HIGHWAYS DEPARTMENT

	Target	2004 (Actual)	2005 (Actual)	2006 (Plan)
formulate, negotiate and agree detailed implementation plans for the Kowloon Southern Link (cumulative % completed) ensure timely completion of the Kowloon	100	90	100	_
Southern Link project for opening by 2009 (cumulative % completed)φ formulate, negotiate and agree detailed implementation plans for the West	35	_	10	35
Island Line (cumulative % completed)φ formulate, negotiate and agree detailed implementation plans for the Tseung Kwan O South Station (cumulative %	70	—	20	70
receive and assess proposal on the combined project of the Northern Link and the Express Rail Link (cumulative	100	_	60	100
% completed) $\phi$	100	_	80	100
<ul> <li>New targets as from 2006.</li> <li>Target introduced as from 2005.</li> </ul>				
		2004 (Actual)	2005 (Actual)	2006 (Estimate)
submissions and development proposals (that m impact on railway development) processed railway infrastructure layouts and ancillary buil	ding	387	422	408
submissions processed capital projects under design and construction e the railway corporations or other agencies	entrusted to	285	270	260
<ul> <li>(no.)</li></ul>	r design and	14 4,001	15 4,060	15 4,060
other agencies (no.)		14 389	15 390	15 110
planning studies carried out by consultants (no.)(\$m) (\$m) transport and planning studies with railway plan		2 1		1 1
provided by the Department	g mput	8	10	10

## Matters Requiring Special Attention in 2006–07

21 During 2006–07, the Department will:

- co-ordinate actions with concerned bodies and departments to speed up land resumption and to resolve interface problems to facilitate implementation of the railway projects;
- oversee the progress of the Sheung Shui to Lok Ma Chau Spur Line and the Kowloon Southern Link to ensure their timely completion;
- facilitate the planning and design of the Sha Tin to Central Link, the West Island Line and the combined project of the Northern Link and the Express Rail Link;
- facilitate the planning, design and construction of the Tseung Kwan O South Station;
- scrutinise submissions by KCRC and MTRCL on the implementation of the railway projects;
- · co-ordinate with the Mainland authorities on cross-boundary infrastructure developments;
- · assist in updating the rail expansion plan and carry out any necessary studies on new railway proposals; and
- continue to undertake route protection of the recommended railway projects and other longer term proposals.

### **Programme (4): Technical Services**

	2004–05	2005–06	2005–06	2006–07
	(Actual)	(Original)	(Revised)	(Estimate)
Financial provision (\$m)	533.7	560.6	554.4 (-1.1%)	<b>564.3</b> (+1.8%)

(or +0.7% on 2005–06 Original)

# Aim

22 The aim is to provide technical support and set standards for the construction and maintenance of the road network.

# **Brief Description**

23 The Department provides design input for road lighting, highway structures, roadside slope upgrading and landscape features associated with capital projects and maintenance works; and inspects the safety provisions on highway construction sites. It researches into new materials (such as thermoplastic and acrylic anti-skid road surfacing materials), techniques and standards. It also provides engineering, quantity surveying and landscaping technical services.

24 In 2005, the Department's performance was satisfactory. The Department maintained highway structures and road lights in the territory to the required standard through prompt co-ordination, inspections and repair; and implemented the quality assurance system in the design and maintenance of highway structures. The Department also ensured that necessary technical support was given for the smooth implementation and operation of works in the other programmes.

25 The key performance measures are:

Targets

ctual) (Ac	2005         2006           ctual)         (Plan)           100         100
100	, , , ,
	100 <b>100</b>
	100 <b>100</b>
100	100 100
100	100 <b>100</b>
100	100 <b>100</b>
100	100 100
2004	2005 <b>2006</b>
	ctual) (Estimate)
, (	, , ,
41	18 <b>20</b>
	6 423 <b>6 300</b>
67	66 <b>64</b>
50	47 <b>50</b>
50	T/ 50
9	9 <b>9</b>
)	, ,
27	25 <b>25</b>
8 300 5	5 950 <b>6 000</b>
240	240 <b>240</b>
1 465	1 750 <b>2 000</b>
	<b>2</b> 610 <b>2</b> 650
1	1 686 <b>2 250</b>
	8 30
	95 70
	9 27 8 300 240 1 465 2 517

 $\Delta$  New indicators as from 2006.

# Matters Requiring Special Attention in 2006–07

26 During 2006–07, the Department will:

- continue to enhance its quality management system with special emphasis on the environment and safety management;
- continue to enhance the environment with improved streetscape, more greening, better lighting fixtures and appropriate landscaping works;
- · continue to establish and maintain survey control networks for cross-boundary highway projects;
- continue to provide design input for pedestrian schemes;
- maintain database for vegetation and other information on slopes maintained by the Department;
- strengthen the maintenance of vegetation for roadside slopes and high speed roads; and
- continue to improve the technical standard of Engineer Inspection of slopes through internal audit.

# Head 60 — HIGHWAYS DEPARTMENT

Programme	2004–05	2005–06	2005–06	2006–07
	(Actual)	(Original)	(Revised)	(Estimate)
	(\$m)	(\$m)	(\$m)	(\$m)
<ol> <li>Capital Projects</li> <li>District and Maintenance</li></ol>	290.0	267.8	263.6	268.6
	1,039.5	1,033.7	1,040.4	1,045.7
	71.0	75.1	73.5	72.2
	533.7	560.6	554.4	564.3
	1,934.2	1,937.2	1,931.9 (-0.3%)	1,950.8 (+1.0%)

## ANALYSIS OF FINANCIAL PROVISION

(or +0.7% on 2005–06 Original)

# Analysis of Financial and Staffing Provision

### Programme (1)

Provision for 2006–07 is \$5.0 million (1.9%) higher than the revised estimate for 2005–06. This is mainly due to the increased provision for operating expenses and full-year provision for filling of vacancies in 2005–06, partly offset by the deletion of eight posts.

## Programme (2)

Provision for 2006–07 is \$5.3 million (0.5%) higher than the revised estimate for 2005–06. This is mainly due to the increased provision for enforcement of the excavation permit conditions prescribed in the Land (Miscellaneous Provisions) Ordinance and full-year provision for filling of vacancies in 2005–06, partly offset by the deletion of nine posts.

### Programme (3)

Provision for 2006–07 is \$1.3 million (1.8%) lower than the revised estimate for 2005–06. This is mainly due to the deletion of two posts.

#### **Programme (4)**

Provision for 2006–07 is \$9.9 million (1.8%) higher than the revised estimate for 2005–06. This is mainly due to the increased provision for strengthening the vegetation maintenance service for roadside slopes and high speed roads. In addition, three posts will be deleted in 2006–07.



Changes in the size of the establishment (as at 31 March)



Year

Sub- head (Code)	Actual expenditure 2004–05		Approved estimate 2005–06	Revised estimate 2005–06	Estimate 2006–07
		\$'000	\$'000	\$'000	\$'000
	<b>Operating Account</b>				
	Recurrent				
000 272	Operational expenses Electricity for public lighting	1,768,424 162,579	1,752,967 180,738	1,752,674 175,721	1,777,608 170,733
	Total, Recurrent	1,931,003	1,933,705	1,928,395	1,948,341
	Non-Recurrent				
700	General non-recurrent	1,379	800	793	603
	Total, Non-Recurrent	1,379	800	793	603
	Total, Operating Account	1,932,382	1,934,505	1,929,188	1,948,944
	Capital Account				
	Plant, Equipment and Works				
661	Minor plant, vehicles and equipment (block vote)	1,828	2,685	2,685	1,809
	Total, Plant, Equipment and Works	1,828	2,685	2,685	1,809
	Total, Capital Account	1,828	2,685	2,685	1,809
	Total Expenditure	1,934,210	1,937,190	1,931,873	1,950,753

#### **Details of Expenditure by Subhead**

The estimate of the amount required in 2006–07 for the salaries and expenses of the Highways Department is \$1,950,753,000. This represents an increase of \$18,880,000 over the revised estimate for 2005–06 and of \$16,543,000 over actual expenditure in 2004–05.

#### **Operating** Account

### Recurrent

**2** Provision of \$1,777,608,000 under *Subhead 000 Operational expenses* is for the salaries, allowances and other operating expenses of the Highways Department.

**3** The establishment as at 31 March 2006 will be 1 919 permanent posts and six supernumerary posts. It is expected that there will be a deletion of 19 permanent posts and three supernumerary posts in 2006–07. Subject to certain conditions, the controlling officer may under delegated power create or delete non-directorate posts during 2006–07, but the notional annual mid-point salary value of all such posts must not exceed \$580,557,000.

4 An analysis of the financial provision under *Subhead 000 Operational expenses* is as follows:

	2004–05 (Actual) (\$'000)	2005–06 (Original) (\$'000)	2005–06 (Revised) (\$'000)	2006–07 (Estimate) (\$'000)
Personal Emoluments				
- Salaries	785,408	782,097	774,211	782,090
- Allowances	16,066	17,500	15,469	13,909
- Job-related allowances	1,311	1,596	1,419	1,564
Personnel Related Expenses				
- Mandatory Provident Fund				
contribution	450	500	367	300
- Civil Service Provident Fund				
contribution		—	239	623
Departmental Expenses				
- Maintenance materials	70	420	200	200
- Workshop services	70,139	74,746	75,110	77,192
- General departmental expenses	91,528	106,108	107,549	115,556
Other Charges				
- Highways maintenance	803,452	770,000	778,110	786,174
	1,768,424	1,752,967	1,752,674	1,777,608

**5** Provision of \$170,733,000 under *Subhead 272 Electricity for public lighting* is for paying electricity bills for street lighting, traffic signals, escalators for footbridges and ventilation equipment at bus termini.

## Capital Account

### Plant, Equipment and Works

**6** Provision of \$1,809,000 under *Subhead 661 Minor plant, vehicles and equipment (block vote)* represents a decrease of \$876,000 (32.6%) against the revised estimate for 2005–06. This is mainly due to reduced requirements for minor plant and equipment.

# Commitments

Sub- head (Code)	Item (Code)	Ambit	Approved commitment \$'000	Accumulated expenditure to 31.3.2005 \$'000	Revised estimated expenditure for 2005–06 %'000	Balance \$`000	
Opera	Operating Account						
700		General non-recurrent					
	524	Implementation of ISO 14001 Environmental Management System in Highways Department	2,260	974	200	1,086	
	911	Independent Review of the Trial Public Private Partnership Maintenance Contract	490	116	271	103	
		Total	2,750	1,090	471	1,189	