

## ITEM FOR PUBLIC WORKS SUBCOMMITTEE OF FINANCE COMMITTEE

### HEAD 703 – BUILDINGS

#### Recreation, Culture and Amenities – Open spaces

#### 399RO – District open space in Area 35, Tsuen Wan – phase 2

Members are invited to recommend to Finance Committee the upgrading of **399RO** to Category A at an estimated cost of \$49.5 million in money-of-the-day prices for the development of a district open space in Area 35, Tsuen Wan – phase 2.

### PROBLEM

We need to complete the development of a major district park in Tsuen Wan District.

### PROPOSAL

2. The Director of Architectural Services (D Arch S), with the support of the Secretary for Home Affairs, proposes to upgrade **399RO** to Category A at an estimated cost of \$49.5 million in money-of-the-day (MOD) prices for the development of a district open space in Area 35, Tsuen Wan – phase 2.

### PROJECT SCOPE AND NATURE

3. The project site is about 25 000 square metres (m<sup>2</sup>) in size. It covers the seafront area linking the Tsuen Wan Park (phase 1) at its northeast and the Tsuen Wan Riviera Park at its south. This site was previously occupied by Kowloon-Canton Railway Corporation as temporary works area for the development of the West Rail and therefore could not be developed together with the Tsuen Wan Park (phase 1) at the same time. The scope of **399RO** comprises –

/(a) .....

- (a) a promenade with landscaped walkway along the seafront;
- (b) a landscaped garden with sitting-out area and extensive soft landscaping;
- (c) a children adventure area with play equipment;
- (d) an open plaza with shelters/pavilions for practising Tai Chi and ad-hoc community activities;
- (e) a jogging trail with fitness stations;
- (f) a pebble foot massage path and fitness equipment for the elderly; and
- (g) a store room with refuse collection facilities.

The project represents the phase 2 development of Tsuen Wan Park which, when completed, will serve as a major seafront open space in the district together with the adjoining Tsuen Wan Riviera Park. A site plan is at Enclosure 1. We plan to start the construction works in July 2005 for completion in April 2007.

## JUSTIFICATION

4. The project is an integral part of a major district open space framework in Tsuen Wan district. It will link up with the existing Riviera Park and Tsuen Wan Park (phase 1), and will fully capture and materialise the leisure potential of an open space network along the waterfront of Tsuen Wan Bay.

5. The site is at a prominent waterfront location frequented by many local residents, and there are a number of residential estates and schools in the vicinity. The Tsuen Wan District Council has strongly requested early completion of this remaining phase of the Tsuen Wan Park upon return of the project site following completion of the West Rail project. We anticipate that on completion of the phase 2 development, the Tsuen Wan Park will become a major district park highly patronised by Tsuen Wan residents. Given its proximity to the West Rail Tsuen Wan West Station and the public pier with ferries to Ma Wan (with the Tung Wan Beach), the proposed open space will also serve as a major leisure facility for nearby housing, commercial and comprehensive development areas.

6. The existing Tsuen Wan Park (phase 1) is about 48 000 m<sup>2</sup> in size and provides a children's play area, a children's cycling area, a gateball court, four tennis courts, a chess playing area, fitness stations, a rock garden and a plaza. The Tsuen Wan Riviera Park occupies an area of about 45 000 m<sup>2</sup> and comprises a turf football pitch, four tennis courts, a basketball-cum-volleyball court, a gateball court, a children's play area and a landscaped garden. To complement the active recreational facilities in these parks, the proposed district open space will provide mainly passive recreational facilities to serve the different needs of the residents.

7. Currently, Tsuen Wan District has a population of about 280 000 with an existing provision of about 540 000 m<sup>2</sup> of public open space. As a reference, the Hong Kong Planning Standards and Guidelines suggests a provision of 560 000 m<sup>2</sup> of public open space for the current population in Tsuen Wan. On completion of phase 2 development of the project, the demand for public open space in Tsuen Wan would have been adequately addressed.

## FINANCIAL IMPLICATIONS

8. We estimate the capital cost of the project to be \$49.5 million in MOD prices (see paragraph 9 below), made up as follows –

	<b>\$ million</b>
(a) Site formation	4.4
(b) Building	0.5
(c) Building services	5.4
(d) Drainage and external works	31.0
(e) Soft landscaping works	3.8
(f) Consultant's fee for contract administration services	0.2
(g) Furniture and Equipment <sup>1</sup>	0.2

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<sup>1</sup> Based on the furniture and equipment provided in existing/planned facilities of similar scale (e.g. office furniture, tools and equipment, litter bins and portable signages, etc).

(h) Contingencies	4.5	
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Sub-total	50.0	(in September 2004 prices)
(i) Provision for price adjustment	(0.5)	
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Total	49.5	(in MOD prices)
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D Arch S proposes to engage a consultant to provide contract administration services for the project. A breakdown of the estimate for the consultant's fee is at Enclosure 2. D Arch S considers the estimated project cost reasonable as compared with similar projects undertaken by the Government.

9. Subject to approval, we will phase the expenditure as follows –

Year	\$ million (Sept 2004)	Price adjustment factor	\$ million (MOD)
2005 – 06	8.4	0.99000	8.3
2006 – 07	27.5	0.98753	27.2
2007 – 08	8.3	0.99123	8.2
2008 – 09	4.1	0.99990	4.1
2009 – 10	1.7	1.01515	1.7
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	50.0		49.5
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10. We have derived the MOD estimates on the basis of the Government's latest forecast of trend rate of change in the prices of public sector building and construction output for the period 2005 to 2010. We will tender the project together with two other projects (namely, **394RO** – District open space in Area 39, Fanling/Sheung Shui; and **396RO** – District open space in Area 2, Tung Chung) as a design-and-build contract. We intend to award the contract on a lump-sum basis because we can clearly define the scope of works in advance, leaving little room for uncertainty. The contract will not provide for price adjustments because the contract period will not exceed 21 months.

11. We estimate the annually recurrent expenditure arising from this project to be \$1.92 million.

## **PUBLIC CONSULTATION**

12. We consulted the Tsuen Wan District Council on the scope and design of the project on 29 July 2003. Members supported the project and strongly urged for its early implementation.

## **ENVIRONMENTAL IMPLICATIONS**

13. This is not a designated project under the Environmental Impact Assessment Ordinance. The project will not cause long term environmental impact. We have included in the project estimates the cost to implement suitable mitigation measures to control short term environmental impacts.

14. During construction, we will control noise, dust and site run-off nuisances to within established standards and guidelines through the implementation of mitigation measures in the relevant contract. These include the use of silencers, mufflers, acoustic lining or shields for noisy construction activities, frequent cleaning and watering of the site, and the provision of wheel-washing facilities.

15. At the design stage, we will require the contractor to fully consider measures to reduce the generation of construction and demolition (C&D) materials and to reuse/recycle such materials as much as possible. D Arch S will require the contractor to introduce more prefabricated building elements into the project design to reduce temporary formwork and construction waste. We will use suitable excavated materials for filling within the project site to minimise off-site disposal. In addition, we will require the contractor to use metal site hoardings and signboards so that these materials can be recycled or reused in other projects.

16. D Arch S will require the contractor to submit a waste management plan (WMP) for approval. The WMP will include appropriate mitigation measures to avoid, reduce, reuse and recycle C&D materials. D Arch S will ensure that the day-to-day operations on site comply with the approved WMP. D Arch S will control the disposal of public fill and C&D waste to designated public filling facilities and landfills respectively through a trip-ticket system. D Arch S will require the contractor to separate public fill from C&D waste for disposal at appropriate facilities. We will record the disposal, reuse and recycling of C&D materials for monitoring purposes.

17. We estimate that the project will generate about 17 400 cubic metres (m<sup>3</sup>) of C&D materials. Of these, we will reuse about 11 230 m<sup>3</sup> (64.5%) on site, 4 490 m<sup>3</sup> (25.8%) as fill in public filling areas<sup>2</sup>, and dispose of 1 680 m<sup>3</sup> (9.7%) at landfills. The notional cost of accommodating C&D waste at landfill sites is estimated to be \$210,000 for this project (based on a notional unit cost<sup>3</sup> of \$125/m<sup>3</sup>).

## LAND ACQUISITION

18. The project does not require land acquisition.

## BACKGROUND INFORMATION

19. We upgraded **399RO** to Category B in February 2004. We engaged consultants in October 2004 to carry out topographical survey and prepare tender documents for the project, and also a term contractor in October 2004 to carry out site investigation at a total cost of \$550,000. We will charge this amount to block allocation **Subhead 3100GX** "Project feasibility studies, minor investigations and consultants' fees for items in Category D of the Public Works Programme". The quantity surveying consultant is finalising the tender documents. The other consultant and the term contractor will complete the topographical survey and the site investigation in November 2004.

20. The proposed development of the district open space may involve removal of 25 small trees which will all be replanted within the project site (subject to finalisation of design). All trees to be removed are not important trees.<sup>4</sup> We will incorporate planting proposals as part of the project, including estimated quantities of 250 trees and 30 000 shrubs.

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<sup>2</sup> A public filling area is a designated part of a development project that accepts public fill for reclamation purposes. Disposal of public fill in a public filling area requires a licence issued by the Director of Civil Engineering and Development.

<sup>3</sup> This estimate has taken into account the cost for developing, operating and restoring the landfills after they are filled and the aftercare required. It does not include the land opportunity cost for existing landfill sites (which is estimated at \$90/m<sup>3</sup>), nor the cost to provide new landfills (which are likely to be more expensive) when the existing ones are filled. The notional cost estimate is for reference only and does not form part of this project estimate.

<sup>4</sup> Important trees include trees on the Register of Old and Valuable Trees, and any other trees which meet one or more of the following criteria –

- (a) trees over 100 years old;
- (b) trees of cultural, historical or memorable significance;
- (c) trees of precious or rare species;
- (d) trees of outstanding form; or
- (e) trees with trunk diameter exceeding one metre (measured at one metre above ground level).

21. We estimate that the proposed works will create about 55 jobs (45 for labourers and another 10 for professional/technical staff) providing a total employment of 800 man-months.

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Home Affairs Bureau  
October 2004



title 399RO  
DISTRICT OPEN SPACE IN  
AREA 35, TSUEN WAN -  
PHASE 2  
聖灣第35區的地區休憩用地  
第2期

drawn by	H.W. CHOW	date	11.8.04
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drawing no.	scale
AB/6535/XA201	1:2500
 ARCHITECTURAL SERVICES DEPARTMENT	



## Enclosure 2 to PWSC(2004-05)41

### 399RO – District open space in Area 35, Tsuen Wan – phase 2

#### Breakdown of the estimate for consultant's fee

Consultant's staff cost		Estimated man-months	Average MPS* salary point	Multiplier	Estimated fee (\$ million)
Contract Administration (Note)	Professional	–	–	–	0.1
	Technical	–	–	–	0.1
				<b>Total</b>	<hr/> 0.2 <hr/>

\*MPS = Master Pay Scale

#### Note

The consultant's staff cost for contract administration is calculated in accordance with the existing consultancy agreement for the design and construction of **399RO**. The post-contract stage of the assignment will only be executed subject to Finance Committee's approval to upgrade **399RO** to Category A.