

For information

Legislative Council Panel on Development

**139CD – Decking of Staunton Creek nullah in Wong Chuk Hang and
Fuk Man Road nullah in Sai Kung**

PURPOSE

This paper briefs Members on the Administration's proposal to upgrade part of **139CD** entitled "Decking of Staunton Creek nullah in Wong Chuk Hang and Fuk Man Road nullah in Sai Kung" to Category A, at an estimated cost of about \$95.8 million in money-of-the-day (MOD) prices, for the decking of the open nullah at Fuk Man Road in Sai Kung.

PROJECT SCOPE

2. The scope of the part of 139CD which we propose to upgrade to Category A comprises –
- (a) decking of about 180 metres (m) long and 12m wide open nullah at Fuk Man Road in Sai Kung;
 - (b) landscaping works; and
 - (c) ancillary works including local road junction improvement.

----- We plan to commence construction in end 2008 for completion in end 2011.

JUSTIFICATION

3. The Fuk Man Road nullah is located within the Sai Kung town. Except for its downstream section which is covered, the nullah remains open and has been a source of nuisance to nearby residents. The open nullah is regarded as an urban eyesore not compatible with the surrounding environment. It is often conceived by the public as an open sewer posing health risks. The Chief Executive announced in his 2005 Policy Address that the Government would deck over 16 sections of nullahs within ten years to improve the living environment. Fuk Man Road nullah is one of

the 16 sections.

4. To enhance the local environment quality in densely populated urban area, we will incorporate greening works in the project by landscaping the nullah deck and the planned open space adjacent to the nullah. We will also carry out minor road improvement works to the junction of Fuk Man Road and Po Tung Road in association with the construction of the proposed nullah decking works to improve the local traffic condition. A site plan, a schematic section and a landscaping plan of the proposed works are at **Enclosure 1**.

5. Upon completion of the proposed works, the eyesore will be removed and the quality of living environment will be improved as a result of enhanced greening in the area.

FINANCIAL IMPLICATIONS

6. We estimate the capital cost of the proposed works to be \$95.8 million in MOD prices, made up as follows –

		\$ million
(a) Construction works		74.5
(i) nullah decking	60.4	
(ii) landscaping works	8.9	
(iii) ancillary works	5.2	
(b) Environmental mitigation measures		3.0
(c) Consultants' fees		9.6
(i) contract administration	2.6	
(ii) site supervision	7.0	
(d) Contingencies		8.7
	Total	<hr/> 95.8 (in MOD prices) <hr/>

PUBLIC CONSULTATION

7. We consulted the Sai Kung District Council (SKDC) Food & Environmental Hygiene Committee on 21 August 2007 regarding the proposed works. Members supported the implementation of the proposed works.

8. We gazetted the proposed works under the Foreshore and Sea-bed (Reclamations) Ordinance (Chapter 127) on 7 December 2007 and did not receive any objection. The works was authorized on 5 March 2008.

ENVIRONMENTAL IMPLICATIONS

9. The proposed works is not a designated project under the Environmental Impact Assessment (EIA) Ordinance. We completed an Environmental Study (ES) for the proposed works in December 2007 and concluded that the project will not cause any long term adverse environmental impacts. We will incorporate the ES recommendations into the works contract for implementation.

10. For short term impacts during construction, we will control noise, dust and site run-off within established standards and guidelines through the implementation of mitigation measures, such as the use of temporary noise barriers and silenced construction plants to reduce noise generation, frequent cleaning and water-spraying the site to reduce emission of dust, and the provision of wheel-washing facilities to avoid the escape of soil and dust from the site. We will also carry out regular site inspections to ensure that these recommended mitigation measures and good site practices will be properly implemented.

11. We have considered ways in the planning and design stages to reduce the generation of construction waste where possible. For example, we have adopted standardised sections of reinforced concrete structures to minimise the use of formwork and will retain the existing nullah walls to minimise excavation and demolition of existing structures. In addition, we will require the contractor to reuse inert construction waste (e.g. re-use excavated material as filling material) on site or in other suitable construction sites as far as possible, in order to minimise the disposal of inert construction waste to public fill reception facilities¹. We will encourage the contractor to maximise the use of recycled and recyclable inert construction waste, as well as the use of non-timber formwork to further minimise the generation of

¹ Public fill reception facilities are specified in Schedule 4 of the Waste Disposal (Charges for Disposal of Construction Waste) Regulation. Disposal of inert construction waste in public fill reception facilities requires a licence issued by the Director of Civil Engineering and Development.

construction waste.

12. We will also require the contractor to submit for approval a plan setting out the waste management measures, which will include appropriate mitigation means to avoid, reduce, reuse and recycle inert construction waste. We will ensure that the day-to-day operations on site comply with the approved plan. We will require the contractor to separate the inert portion from non-inert construction waste on site for disposal at appropriate facilities. We will control the disposal of inert construction waste and non-inert construction waste to public fill reception facilities and landfills respectively through a trip-ticket system.

13. We estimate that the project will generate in total about 5 630 tonnes of construction waste. Of these, we will reuse about 1 000 tonnes (18%) on site and deliver about 2 180 tonnes (39%) of inert construction waste to public fill reception facilities for subsequent reuse. In addition, we will dispose of about 2 450 tonnes (43%) of non-inert construction waste at landfills. The total cost for accommodating construction waste at public fill reception facilities and landfill sites is estimated to be about \$0.4 million for this project (based on a unit cost of \$27/tonne for disposal at public fill reception facilities and \$125/tonne at landfills²).

HERITAGE IMPLICATIONS

14. The project will not affect any heritage site, i.e. all declared monuments, proposed monuments, graded historic sites/buildings, sites of archaeological interests and Government historic sites identified by the Antiquities and Monuments Office.

TRAFFIC IMPACTS

15. We have carried out a traffic impact assessment for the proposed works, which concluded that the proposed works would not cause unacceptable traffic impact. Improvement to the junction at Fuk Man Road and Po Tung Road was supported by SKDC Food & Environmental Hygiene Committee on 21 August 2007 and agreed by the Transport Department.

² The 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/m³), nor the cost to provide new landfills (which is likely to be more expensive) when the existing ones are filled.

BACKGROUND INFORMATION

16. We included **139CD** in Category B in September 2005.

17. In October 2006, we engaged consultant to undertake surveys, site investigation, traffic impact assessment and design for the works under **139CD** at a cost of \$9.15 million in MOD prices. We have charged this amount to block allocation **Subhead 4100DX** “Drainage works, studies and investigations for items in Category D of the Public Works Programme”. We have substantially completed the detailed design of the proposed works in paragraph 2 above. The design of the remaining nullah, namely, Staunton Creek nullah in Wong Chuk Hang is in progress.

17. Of the 45 trees within the project boundary, our latest estimate is that 40 trees will be preserved. The proposed works will involve the felling of five trees. All trees to be felled are not important trees³. We will incorporate planting proposal as part of the project, including estimated quantities of 40 trees, 3 400 shrubs and 140 m² of grassed area.

18. We estimate that the proposed works will create about 50 jobs (40 for labourers and another 10 for professional/technical staff) providing a total employment of 1 450 man-months.

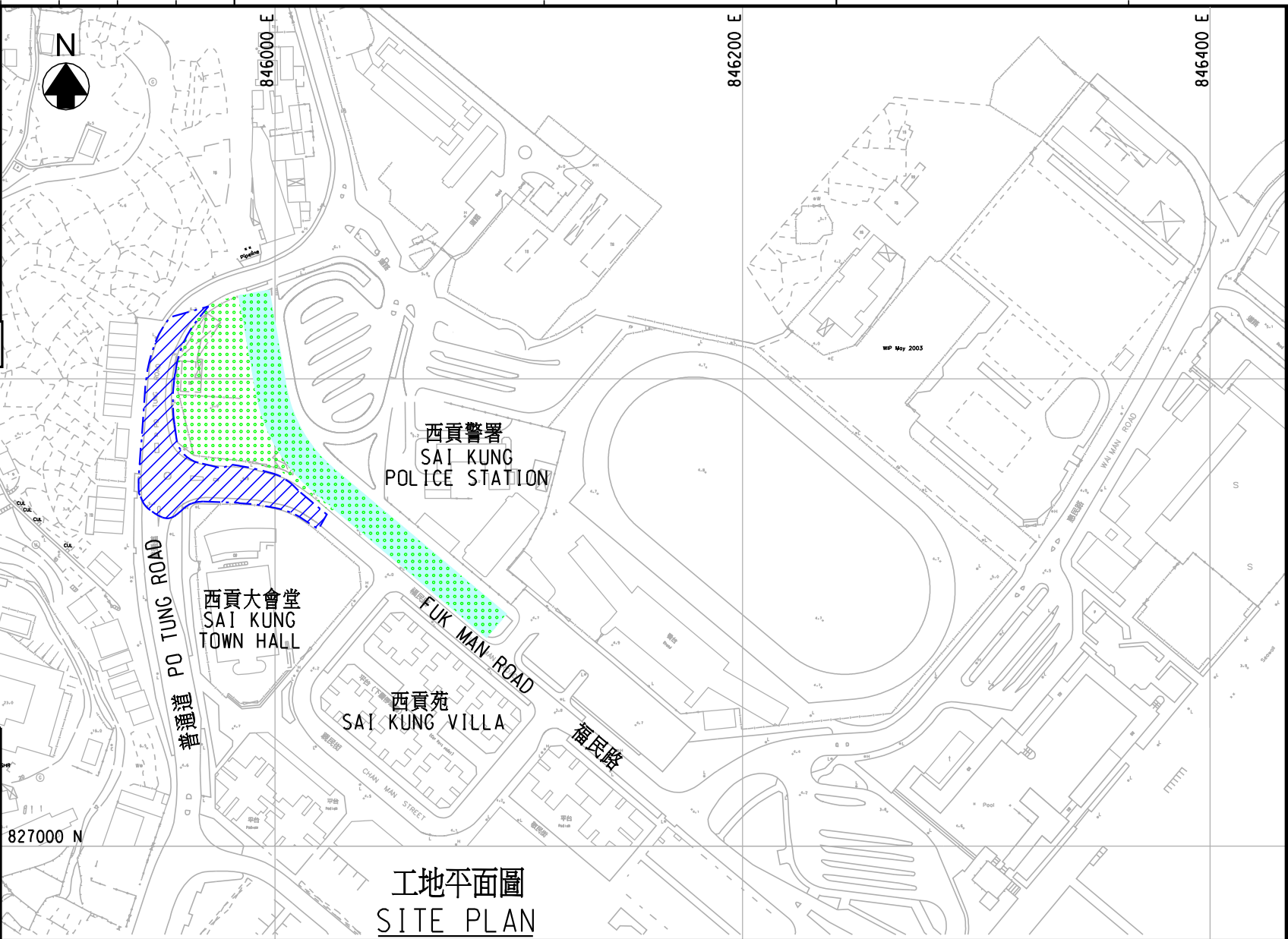
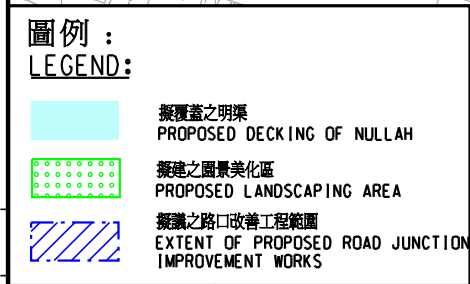
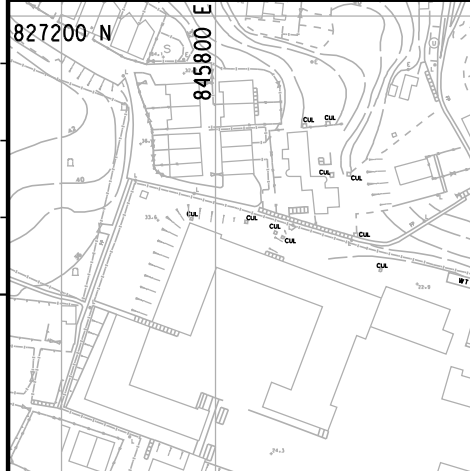
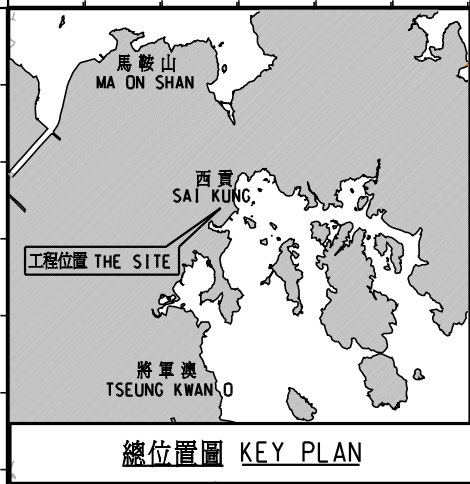
WAY FORWARD

19. Members are invited to support our proposal for part-upgrading of **139CD** for consideration by the Public Works Subcommittee in May 2008 and for funding approval by the Finance Committee in June 2008.

Development Bureau April 2008

³ “Important trees” refer to trees in the Register of Old and Valuable Trees, or any other trees that meet one or more of the following criteria –

- (a) trees over 100 years old or above;
- (b) trees of cultural, historical or memorable significance e.g. Fung Shui trees, trees as landmark of monastery or heritage monument, and trees in memory of important persons or event;
- (c) trees of precious or rare species;
- (d) trees of outstanding form (taking account of overall tree sizes, shape and any special features) e.g. trees with curtain like aerial roots, trees growing in unusual habitat; or
- (e) trees with trunk diameter equal or exceeding 1.0 metre (measured at 1.3 metre above ground level), or with height/canopy spread equal or exceeding 25m.




圖則名稱 drawing title
工務工程計劃編號 139CD -
黃竹坑香葉道明渠及西貢福民路明渠覆蓋工程
PWP ITEM NO. 139CD -
DECKING OF STAUNTON CREEK NULLAH IN WONG CHUK HANG
AND FUK MAN ROAD NULLAH IN SAI KUNG

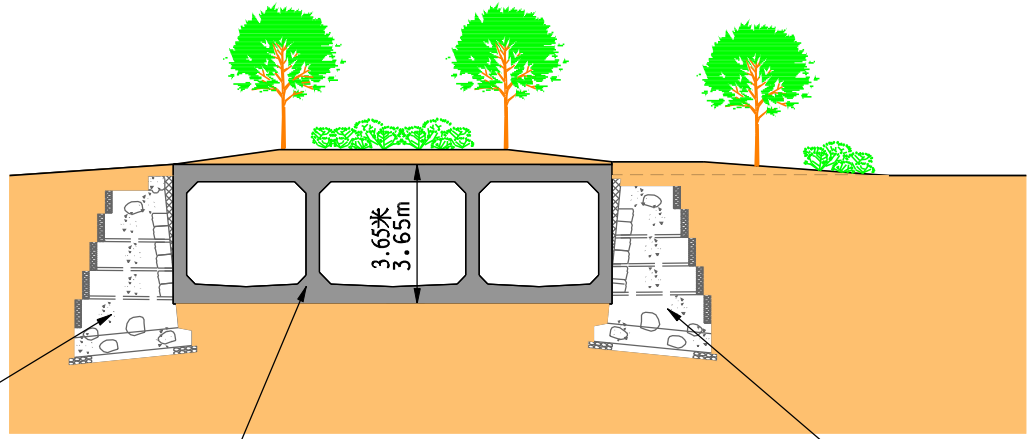
繪圖 drawn	H.K. LAI	日期 date	18 FEB 08
核對 checked	L.F. TAI	日期 date	18 FEB 08
審核 approved	K.F. TAM	日期 date	18 FEB 08
部門 office	排水工程處 DRAINAGE PROJECTS DIVISION		

圖則編號 drawing no. 圖一 FIGURE 1 比例 scale NTS

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THE GOVERNMENT OF THE HONG KONG
SPECIAL ADMINISTRATIVE REGION
DRAINAGE SERVICES DEPARTMENT



切面示意圖
SCHEMATIC SECTION

現有的明渠牆壁將會保留
EXISTING NULLAH
WALL TO BE RETAINED


擬建之箱形暗渠
PROPOSED BOX CULVERT

現有的明渠牆壁將會保留
EXISTING NULLAH
WALL TO BE RETAINED

LEGEND 圖例 :



擬種植的樹木及灌木
PROPOSED TREES AND
SHRUBS TO BE PLANTED

圖則名稱 drawing title 工務工程計劃編號 139CD - 黃竹坑 香葉道明渠及西貢福民路明渠覆蓋工程 PWP ITEM NO. 139CD - DECKING OF STAUNTON CREEK NULLAH IN WONG CHUK HANG AND FUK MAN ROAD NULLAH IN SAI KUNG	繪圖 drawn	H.K. LAI	日期 date	18 FEB 08	圖則編號 drawing no.	圖二 FIGURE 2	比例 scale	NTS
	核對 checked	L.F. TAI	日期 date	18 FEB 08	保留版權 COPYRIGHT RESERVED			
	審核 approved	K.F. TAM	日期 date	18 FEB 08	 香港特別行政區政府渠務署 THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION DRAINAGE SERVICES DEPARTMENT			
	部門 office	排水工程處 DRAINAGE PROJECTS DIVISION						



- 1 帆船形涼亭
PAVILION IN THE FORM OF A SHIP'S BRIDGE
- 2 帆狀拉力結構
TENSION STRUCTURE IN THE FORM OF SAIL
- 3 呈海浪形狀之草坪及灌木
WAVY LAWN AND SHRUB
- 4 呈船身形狀之花棚
TRELLIS IN THE FORM OF A SHIP'S HULL
- 5 現有之樹木
EXISTING TREE
- 6 船狀花槽
BOAT SHAPE PLANTER

- LEGEND 圖例:
- 現有之樹木
EXISTING TREE
 - 擬種植之樹木
PROPOSED TREE
 - 現有之植物
EXISTING VEGETATION
 - 擬種植之灌木及草坪
PROPOSED SHRUBS AND GRASSED AREA



呈船身形狀之花棚
TRELLIS IN THE FORM OF A SHIP'S HULL



帆船形涼亭
PAVILION IN THE FORM OF A SHIP'S BRIDGE

園景美化平面圖
LANDSCAPING PLAN

圖則名稱 drawing title	繪圖 drawn	日期 date	圖則編號 drawing no.	比例 scale
工務工程計劃編號 139CD - 黃竹坑香葉道明渠及西貢福民路明渠覆蓋工程	T.M. LEE	18 FEB 08	圖三 FIGURE 3	NTS
PWP ITEM NO. 139CD - DECKING OF STAUNTON CREEK NULLAH IN WONG CHUK HANG AND FUK MAN ROAD NULLAH IN SAI KUNG	核對 checked	日期 date	保留版權 COPYRIGHT RESERVED	
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