

THE HONG KONG HOUSING AUTHORITY

Memorandum for Building Committee

Proposed Master Layout Plan, Scheme Design &
Project Development Budget
for Buy or Rent Option
Shatin Area 2B (Hin Wo Lane)

PURPOSE

To seek Members' approval to the proposed Master Layout Plan, Scheme Design and Project Development Budget for the Public Rental Housing Development at Shatin Area 2B (Hin Wo Lane).

BACKGROUND

- 2. Shatin Area 2B was previously reserved for the development of a polyclinic and a general clinic. To meet CE's pledge of 85,000 flats per year, the development was identified as one of HOUSCOM's control projects to boost housing supply in the year 2003/04.
- 3. The whole of Area 2B is carved out into two separate portions, the major portion for the construction of housing and the remaining portion for clinic building.
- 4. The housing portion with a gross site area of about 0.573 ha, is re-zoned from "Government, Institution and Community" (GIC) to Residential (A). The Draft Outline Zoning Plan (OZP No. S/ST/13) was gazetted on 8 October 1999.
- 5. The Strategic Planning Committee (SPC) has, at its meeting held on 11 September 1999, approved the inclusion of this site in the Public Housing Development Programme (PHDP) and the Project Development Cost Ceiling.

- 6. Noise mitigation measures include the provision of air conditioning units to the domestic flats. As air conditioning is not provided for purely rental blocks, Members were advised at the Building Committee Meeting held on 27 April 2000 that agreement would be sought to designate the project as a Buy or Rent Option (BRO). This designation has now been endorsed by Heads of Branches Meeting. The project is still within the Development Cost Ceiling and the change to BRO does not need to be further endorsed by SPC, but the financial viability has altered and SPC will be informed of the details.
- 7. Non-standard designs have been investigated to avoid the need for air-conditioning, but the limitations of prescribed window restrictions and a noise source from two directions make these impractical.
- 8. Past events which are relevant to this project are as follows -

	Date	Event
(a)	21 May 1999 -	Client Brief, Control Plan and Project Estimate endorsed by the department's Project Design Review Committee (Paper No. PDRC 28/99)
(b)	29 June1999	Shatin District Board Consultation
(c)	11 September 1999	Inclusion into PHDP approved by SPC of Paper No. SPC 30/99
(d)	11 February 2000	DipCon Submission for the agreement on the planning parameters was endorsed
(e)	2 March 2000	Endorsed by Project Design Review Committee for submission to the Building Committee (Paper No. PDRC 4/2000 refers)
(f)	2 May 2000	Endorsed by Heads of Branch Meeting (HBB) to designate the project BRO.

SCHEME DESIGN PROPOSAL

- 9. The proposed Master Layout Plan and Scheme Design at Part I and Part II of the attached Annex generally follows the development parameters and the conceptual layout endorsed in above 8(c). Explanatory notes and drawings attached as Part I and Part II of the Annex illustrate the disposition of the housing block, vehicular and pedestrian access and other facilities.
- 10. The proposed development comprises of -
 - (a) 1 no. 41- storey New Harmony 1 Option 6 Block on grade;
 - (b) 50 nos. covered private car parking spaces & 8 nos. light goods vehicle parking spaces;
 - (c) 1 no. Estate Management Office (EMO);
 - (d) 1 no. Refuse Collection Point (RCP);
 - (e) Associated external works.
- 11. The main features of the design are as follows -
 - (a) To mitigate noise generated from surrounding traffic -
 - A maximum domestic setback of 14m from Che Kung Miu Road and 40m from Tin Sam Street are provided.
 - 10 m noise barrier noise barriers to the west of the site and 7m high on top of roof of carpark to the north is provided.
 - Air-conditioning together with 6mm glass for window will be provided to all domestic flats as noise insulation measures.
 - (b) Architectural treatment to the Noise Barrier is as follows -
 - The high noise barriers are the dominant features to the development at street level. Care has been taken to avoid adverse visual impact.

- The overhanging canopy at the top of the noise barrier is repeated at the roof level of the domestic block to unify the appearance of the whole development and provide specific individual identity.
- (c) An 8.5m wide drainage reserve area along site boundary to the south is required to be free from permanent structures.

PROPOSED PROJECT DEVELOPMENT BUDGET

- 12. Based on the proposed Master Layout Plan and Scheme Design, the Project Development Budget for the development is estimated to be \$379.297 M.
- 13. The breakdown of the budget is given in Part IV of the Annex and the key elements are as follows -

		Project Development Budget (\$M)	
(a)	Site Development	Cost	7352
(b)	Construction Cost	Foundation	27.260
`		Building	269.052
		Soft Landscape & Others	0.942
		Sub-total (b)	297.254
(c)	Project Manageme (a + b) x 14%	nt Cost	41.616
(d)	d) Other Project Cost (a + b) x 2%		5.945
(e)			34.482
l .	Total Project development Budget (a) + (b) + (c) + (d) + (e)		379.297

14. The Unit Cost of the Proposed Project Development Budget as compared with SPC's Approved Project Development Unit Cost Ceiling is as follows -

	(a)	(b)	(c)	(d)
	Unit Cost of	SPC's	Overall Unit	June 1999
	Proposed	approved	Cost of	Cost
	Project	project	Construction	Yardsticks
	Development	development	included in (a)	adjusted to
	Budget	unit cost	(excluding	tender-in-
		ceiling	external works	date
İ		(Paper No.	and others)	
		SPC 30/99)		
	(\$/m ² CFA)	$(\$/m^2 CFA)$	(\$ / m ² CFA)	(\$ / m ² CFA)
Domestic	10,144	10,812	6,543	5,973
(PRH)				
Private	5,698	6,763	3,059	4,434
Carpark				-
LGV	1,419	1,506	1,112	_

- 15. The proposed Unit Development Cost Budget is within the SPC's Approved Unit Development Cost Ceiling.
- 16. The difference between the Overall Unit Cost of Construction (excluding external works and others) and the June 1999 Cost Yardsticks for domestic flats adjusted to Tender-In-Date are attributable to the following -

(a)	Adjustment for foundations based on preliminary design	Contribution + 1.7 %
(b)	Allowance for single block project.	+ 4.4 %
(c)	Provision of window A/C unit	+ 2.4 %
(d)	Others (e.g. Street hydrant and pump room, Upgrading of window glazing, etc.)	+ 1.0 %

17. The proposed Project Development Cost for the public rental housing portion can be broken down into the cost per flat as follows -

	(a)	(b)	(c)
Flat Type	Proposed Development Cost per flat (\$)	Overall Construction Conper Flat included in (a) (excluding External Works & Others) (\$)	st June 1999 Cost Yardstick Adjusted to Tender-in-Date (per flat) (\$)
1P/2P	\$301,758	\$198,253	\$180,982
2P/3P	\$389,397	\$255,831	\$233,544
1B	\$516,872	\$339,582	\$309,999
2B	\$679,204	\$446,233	\$407,359

AVAILABILITY OF FUNDS

18. The estimated yearly expenditure of the Proposed Budget is shown below and would be-included in the next capital budget updating of the Authority -

	F	Estimated Expenditure (\$M)		
	2000/2001	2001/2002	Post 31.3.2001	Total
Estimate	17.400	93.750	268.147	379.297

19. Provision in the Housing Authority's Capital Budget for the year 2000/2001 is \$31.650M (Paper No. FC 2/2000).

DEVELOPMENT PROGRAMME

20. Details of the Development Programme are in Part III of the Annex. The key dates are -

		Event	Date
(a)	Scheme Design	PDRC(2)	2/3/00
(b)	Design & Budget	BC	5/00
(c)	Detailed Design	DDRP	6/00
(d)	Piling	Commencement	10/00
		Completion	7/01
(e)	Building	Commencement	7/01
		Completion	1/04

RECOMMENDATIONS

21. It is recommended that the proposed Master Layout Plan, Scheme Design and Project Development Budget for the proposed Buy or Rent Option block at Shatin Area 2B be approved.

DISCUSSION

22. At the next meeting of the Building Committee to be held on 25 May 2000, Members will be invited to approve the recommendation in paragraph 21 above.

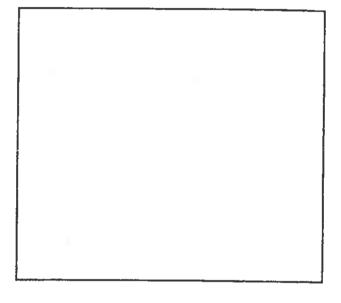
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File Ref.: HD (AR) 1/55/693/1

Date : 19 May 2000

PROPOSED BUY OR RENT OPTION (BRO) AT SHATIN AREA 2B

PROPOSED MASTER LAYOUT PLAN & PROJECT DEVELOPMENT COST BUDGET



BC SUBMISSION, MAY 2000



DEVELOPMENT AND CONSTRUCTION BRANCH HOUSING DEPARTMENT

Amendment Record Sheet

Part I: Master Layout Plan

1. Introduction

- 1.1 Background
- 1.2 Location Plan

2. Site Analysis & Evaluation

- 2.1 Planning and Land Matters
 - 2.1.1 Site Location
 - 2.1.2 Adjacent Land Uses
 - 2.1.3 Zoning Consideration
 - 2.1.4 Land Clearance / Resumption
 - 2.1.5 Height Restriction
- 2.2 Engineering Considerations
 - 2.2.1 Noise and Air
 - 2.2.2 Geotechnical Consideration
 - 2.2.3 Foundation Design
 - 2.2.4 Drainage and Sewerage
 - 2.2.5 Water Supply
 - 2.2.6 Electricity, Telephone, Gas
 - 2.2.7 Traffic Improvement
 - 2.2.8 Drainage Reserve Area
 - 2.2.9 Site Formation

3. Accommodation and Facilities

- 3.1 Site Area
- 3.2 Development Ratio
- 3.3 Flat Number and Flat Mix
- 3.4 Design Population 3.5 Refuse Collection Point
- 3.6 Management Accommodation
 - 3.6.1 Estate Management Office
 - 3.6.2 MAC Office
 - 3.6.3 Artisan Workshop
 - 3.6.4 Office for Cleansing Contr.
 - 3.6.5 BW Term Maintenance Contr. Service / Store Room
 - 3.6.6 BS Term Maintenance Contr. Service / Store Room
- 3.7 Open Space
 - 3.7.1 Local Open Space
 - 3.7.2 recreation Facilities

4. Circulation and Transportation Matters

- 4.1 Vehicular Access
- 4.2 Pedestrian Access
- 4.3 Control of Ingress / Egress
- 4.4 Emergency Vehicular Access
- 4.5 Pedestrian Network
- 4.6 Parking Provision
 - 4.6.1 Carpark Spaces
 - 4.6.2 Motor-cycle Spaces
 - 4.6.3 Light Goods Vehicle Spaces
 - 4.6.5 Residential Loading/ Unloading
 - 4.6.6 Bicycle Parking

5. Design Consideration

- 5.1 Block Types, Disposition & Orientation
- 5.2 Noise Barrier Design
- 5.3 Landscape Design
- 5.4 Design For the Disabled
- 5.5 Graphics and Signage

Part II: Master Layout Drawings

Part III: Development Programme

Part IV: Project Development Budget

AMENDMENT RECORD SHEET

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1.	Introduction			
	1.1 Background	1	2	
	1.2 Location Plan	1	2 2	
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2.	Site Analysis & Evaluation			
	2.1 Planning and Land Matters	1	2	l l
	2.2 Engineering Considerations	1	2	
3.	Accommodation and Facilities			
	3.1 Site Area	1	2	
	3.2 Development Ratio	1	2	
	3.3 Flat Number and Flat Mix	î	2	
	3.4 Design Population	1	2	
	3.5 Refuse Collection Point	1	2	
	3.6 Management Accommodation	1	2	
	3.7 Open Space	1	2	
4.	Circulation and Transportation Matters		2	
	4.1 Vehicular Access	1	1	
	4.2 Pedestrian Access	1	2 2	1
	4.3 Control of Ingress / Egress	i	2	
	4.4 Emergency Vehicular Access	i	2	
	4.5 Pedestrian Network	î	2	
	4.6 Parking Provision	1	2	
5.	Design Consideration			
J.	5.1 Block Types, Disposition & Orientation	4		
	5.2 Noise Barrier Design	1	2	1
	5.3 Landscape Design	1 1	2	İ
	5.4 Design For Disabled	1	2 2	
	5.5 Graphic and Signage	1	2	
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Par	t IV : Development Cost Budget	•		***
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ST	GNED: Mr. LA. GALLOWAY CA/2 (Atg.)			İ
	ATE: 12 May 2000			
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1.1 BACKGROUND

- The site is bounded by Che Kung Miu Road to the north and Tin Sam Street to the east. To its immediate west is a primary school located within Hin Keng Estate and south is an array of GIC facilities including a neighbourhood community centre, Tim Sum Divisional Police Station and Fire station. The site has a gross area of approx. 0.78 ha.
- 2. Originally, the site was reserved for the development of polyclinic and general clinic only. In view of the projected territory-wide shortfall of housing supply in the period 2001–2006, the Government identified the reserve clinic site in Area 2B as one of HOUSCOM's Control List for completion in 2003/04. As a result, a joint development proposal incorporating public housing of not less than 600 flats and the clinic will be planned, constructed and funded by HD and Health D respectively.
- 3. The subject site is originally zoned as GI/C and re-zoning of the housing portion to Residential (A) was incorporated into the Shatin OZP No. S/ST/13 which was gazetted on 8.10.1999 and no objection was received.
- 4. At present, the north-western portion of the site is occupied by Water Services Department under a short-term tenancy as a temporary maintenance yard. The southern portion is used as a temporary carpark. Upon DLO/ST's advice, the entire site can be ready for hand-over to HD and the Health Department for works commencement in October 2000.
- 5. The approval status of this BRO scheme is as follows:
 - a) the development parameters, conceptual layout plans and cost estimates had been endorsed with revision on 21.5.1999 (PDRC Paper No. 28/99 refers).
 - b) the development parameters, conceptual layout plans and cost estimates were subsequently approved by Strategic Planning Committee (SPC) on 11.9.1999 (SPC Paper No. 30/99 refers) for inclusion into the Public Housing Development Programme (PHDP).
 - c) the planning parameters have been submitted for DIPCON circulation on September 1999 and was endorsed on 11.2.2000.
 - d) On 2.3.2000, the Proposed Master Layout Plan and the Project Development Cost Budget was endorsed by the Project Design Review Committee (Paper No. PDRC 4/00 refers)
 - e) On 2.5.2000, the Project is endorsed by HDD to change to BRO Scheme.

1. INTRODUCTION



BC-ISSUE 2

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PART I - MASTER LAYOUT PLAN

2. SITE ANALYSIS & EVALUATION

Approved Development Parameters	Proposed Master Layout Plan	Remarks
2.1 Planning and Land Matters 2.1.1 Site Location Shatin Area 2B, is bounded by Che Kung Miu Road to the north and Tin Sam Street to the east.		The site is relatively flat with no slope in the adjoining areas.
2.1.2 Adjacent Land Uses To the west a primary school and the south GIC facilities such as neighbourhood community centre, police station and fire station.		
2.1.3 Zoning Consideration The Shatin Outline Zoning Plan No. S/ST/13 was gazetted on 8 October 99 and no objection within the statutory period was received.	As in the Approved Development Parameters.	
2.1.4 <u>Land Clearance/</u> <u>Resumption</u> No specific requirement.	As in the Approved Development Parameters.	
2.1.5 <u>Height Restriction</u> Nil	As in the Approved Development Parameters.	· ^
2.2 Engineering Considerations 2.2.1 Noise		
Study to be undertaken by HD.	According to the Final Road Traffic Noise Assessment by HD's consultant, Messrs. Ove Arup & Partners (ARUP) submitted to EPD on 28.2.2000, vertical noise barriers will be provided:	The final report was submitted to EPD on 23.2.2000 and EPD's memo dated 21.3.2000 required air-conditioning to the noise affected flats (i.e.300 out of 799 flats) was stated. As this project is changed to
	- 7m high at roof top of	BRO, full air-conditioners

2. SITE ANALYSIS & EVALUATION

Approved Development Parameters	Proposed Master Layout Plan	Remarks
	carport facing Tin Sum Street, and 10m high along western boundary facing Che Kung Miu Road. - Residual noise impacts will be mitigated by the provision of upgraded 6mm thick glass pane windows for the affected flats, with noise levels in excess of 70dB(A).	together with 6mm glass windows will be provided to all domestic flats. A feature wall to be designed with solid and transparent screens to be provided for best noise screening as well as aesthetic results. (pls. refer to dwg no. SK/A/PLO-01)
2.2.2 Geotechnical Considerations The site is underlain by superficial deposits and in situ weathered soils down to some 45m to 60m below ground. 2.2.3 Foundation Design Deep foundations are recommended for the building block and the noise barrier, shallow footings can be adopted for other lightly loaded structures.	As in the Approved Development Parameters.	
2.2.4 Drainage and Sewerage	As in the Approved Development Parameters.	
2.2.5 Water Supply Adequate water supply provisions for the proposed development to be undertaken by WSD.	As in the Approved Development Parameters.	
2,2.6 Electricity, Telephone, Gas Adequate utility supply provisions for the proposed development to be undertaken by utility companies.	As in the Approved Development Parameters.	DE 2 Page 2 of 3

2. SITE ANALYSIS & EVALUATION

Approved Development Parameters	Proposed Master Layout Plan	Remarks
2.2.7 Traffic Improvement Traffic improvement has been covered by CED's Supplementary Traffic Impact Assessment.	As in the Approved Development Parameters.	Roadworks to be carried out by CED on behalf of TDD.
2.2.8 Drainage Reserve Area Drainage reserves of 8.5m alongside the South-western boundary of the site.	As in the Approved Development Parameters.	8
2.2.9 Site Formation The site is held under Short Term Tenancy which will be terminated before piling works commence on October 2000. No site formation work is required.	As in the Approved Development Parameters.	Health Department is responsible to take up the works of the clinic portion.
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		8

3. ACCOMMODATION AND FACILITIES

Approved Development Parameters	Proposed Master Layout Plan	Remarks
3.1 Site Area Gross site area: 7,800 m ² Clinic Site: 2,070 m ² Domestic Site Area: 5,730 m ²	As approved in SPC paper No. 30/99 dated 11 September 99.	Net site area = domestic site area.
3.2 Development Ratio		
Permissible DR: 5-7 Gross Floor Space Domestic 36,816m ² Clinic 7,000m ² Total: 43,816m ² Development Ratio: =43,816 / 6,411 =6.83 Domestic Plot Ratio: 7.98 Non-Domestic Plot Ratio: 0.13 (refer to plot ratio and development calculation sheets)	Development Ratio (D.R.) Calculation Gross Floor Space NH1 Opt. 6 = 38,253 m ² (933 m ² x 41) Area attached in Wings C = 93.56 m ² Total : 38,346.56m ² Development Ratio : =38,346.56/5,730 = 6.7 < 7	Domestic GFA = *34,625.63 m ² * refer to BC11/99 dated 15 January 99. GFA of EMO & Contractor's offices = 501.7 m ²
3.3 Flat Number and Flat Mix		
The proposed public rental housing development is planned to provide a total of 799 flats.	The proposed development provided one standard New Harmony 1 Opt 6. The flat mix is as follows: Flat 1/2P 2/3P 1B 2B Nos. 159 320 160 160 % 19.9 40.1 20.0 20.0	

ACCOMMODATION AND FACILITIES

3.

Approved Development Parameters	Proposed Master Layout Plan	Remarks
3.4 Design Population	The design population for 799 flats is 2,020 persons. (2.53 persons/ unit)	
3.5 Refuse Collection Point 1 for the whole Estate	Proposed to be located at the corner of carpark. (110m ² IFA).	
3.6 Management Accommodation 3.6.1 Estate Management Office 1 for the whole Estate	Proposed to be located at G/F of Wing C.	As per SHM/D&V's "Standard Provision for Rental Estate" for the
3.6.2 <u>M.A.C. Office</u> 1 for each block (15 - 20 m ² IFA)	Proposed to be provided at G/F of Wing B (17.3 m ² IFA).	project dated 5.5.99. Ditto.
3.6.3 Artisan Workshop 1 for the whole Estate, to be detached from the Main EMO (20-40 m ² IFA)	Proposed to be provided at G/F of Wing B (21.5 m ² IFA).	Ditto.
3.6.4 Office for Cleansing Contractor 1 for the whole Estate (32.5-46.5 m ² IFA)	Proposed to be provided at G/F of Wing B (22.2 m ² IFA)	Ditto.
3.6.5 <u>BW Term Maintenance</u> <u>Contractor Service /</u> <u>Store Room</u> 1 for the whole Estate (70-100 m ² IFA)	Proposed to be provided at G/F of Wing B (49 m ² IFA)	Ditto.

3. ACCOMMODATION AND FACILITIES

Approved Development Parameters	Proposed Master Layout Plan	Remarks
3.6.6 BS Term Maintenance Contractor Service / Store Room 1 for the whole Estate (70-100 m ² IFA)	Proposed to be provided at G/F attached to Wing B (54.7 m ² IFA).	Area as shown on the control plan in PDRC Paper No. 28/99 is 58.2m ² .
3.7 Open Space 3.7.1 Local Open Space A minimum of 2,560 m². of local open space shall be provided to serve the proposed development.	3,000 m ² is provided to serve the proposed development.	
3.7.2 <u>Recreation Facilities</u> 205 m ² . Children Playing Area is required.	240 m ² of CPA to be provided at podium garden.	
-	*	

4. CIRCULATION AND TRANSPORTATION MATTERS

A	approved Development Parameters	Proposed Master Layout Plan	Remarks
4.1	Vehicular Access Main access from Hin Keng Lane	As in the Approved Development Parameters	
4.2	Pedestrian Access		
n na na na na na na na na na na na na na	No special requirement	Pedestrian access is provided at these points: at south-east giving access to the adjoining Hin Keng Estate and existing bus stops; at north-west giving access to the nearby KCR station; at north-east giving access to an existing pedestrian subway under Tin Sam Street.	
4,3	Control of Ingress and Egress No special requirement	Guard kiosk, drop gate to be provided at entrance to the estate road; automated carpark control system to be provided later by carpark operator as required.	
4.4	Emergency Vehicular Access (EVA) No special requirement	Domestic block and carpark building shall be accessible with EVA/estate road.	
4.5	Pedestrian Network No special requirement.		
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4. CIRCULATION AND TRANSPORTATION MATTERS

Approved Development Parameters	Proposed Master Layout Plan	Remarks
4.6 Parking Provision 4.6.1 Carpark Spaces *799 / 16 = 50 nos. * includes the no. of 1P/2P flat	As in the Approved Development Parameters	Rate of Provision for carpark BRO: 1 per 9-13 flats excluding 1P/2P flats Dimension
4.6.2 Motor-cycle Spaces 3 nos.	As in the Approved	2.5m (W) x 5m (L) x 2.4m (H) 5 % of total parking space.
4.6.3 <u>Light Goods Vehicle</u> (LGV) <u>Spaces</u> (799-*159) / 80 = 8	Along the site boundary at	Rate of provision for LGV:
nos. * * no. of 1P/2P flats	the South	1 space per 80 flats TD has no objection to the number of LGV provided. [PM/2 's memo to TD dated 22 March 00 (ref:
4.6.4 Residential Loading/ Unloading 1 no. is required.	As in the Approved	HD(PM)55/693/1) refers] Provision of 1 per domestic
4.6.5Bicycle Parking 27 nos. is required.	Development Parameters As in the Approved	Rate of provision for bicycle:
	Development Parameters	1 space per 30 flats

5. DESIGN CONSIDERATIONS

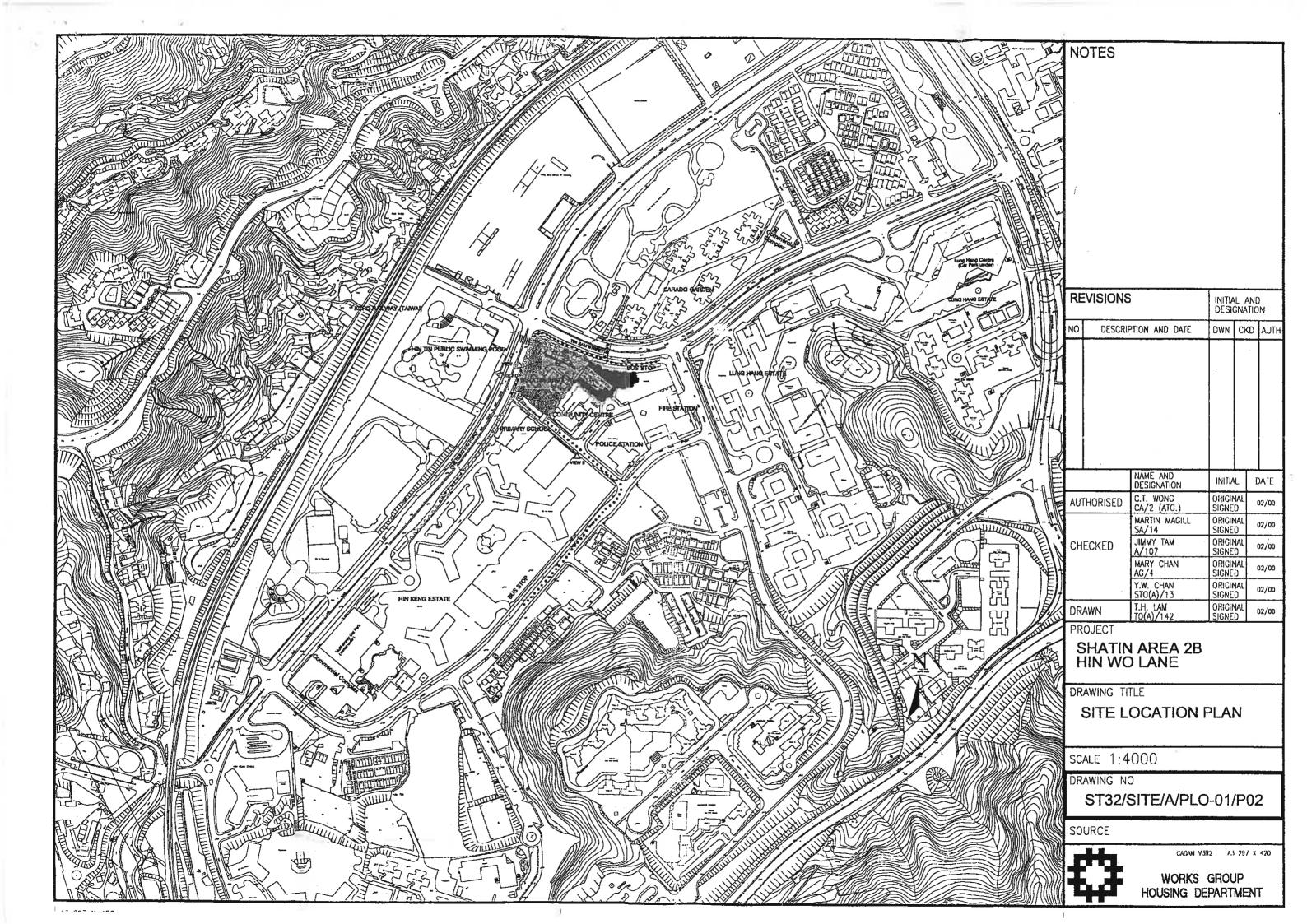
Approved Development Parameters	Proposed Master Layout Plan	Remarks
5.1 Block Types, Disposition and Orientation	As per Control Plan except:- i) orientation of block revised ii) RCP is relocated to away from the vehicular and pedestrian entrance.	
No special requirement.	The site, with its trees and garden, and its limited area, suggested glass noise barrier would be appropriate. The result is a curtain of glass defines the development, yet maintain a certain degree of transparency. This transparent membrane adopted a playful form originated from the noise reduction requirement. The eave-like canopy defines the top-end of the noise barrier to reduce it to a human scale. The canopy at the roof top of the domestic block is proposed to reflect the canopy of the noise barrier, to unify the Development as a whole and to enhance the individual identity of the Development.	Both Transport Department and Highways Department have no objection to the proposed projection of canopies over street. [TE(NTE)Div./TD's memo dated 5.4.2000 (ref: NR 182/191-41) and Highways/NT Region 's memo dated 20.3.2000 (ref: HNT 706/ST/14) refers] Comment from DLO/ST is pending.

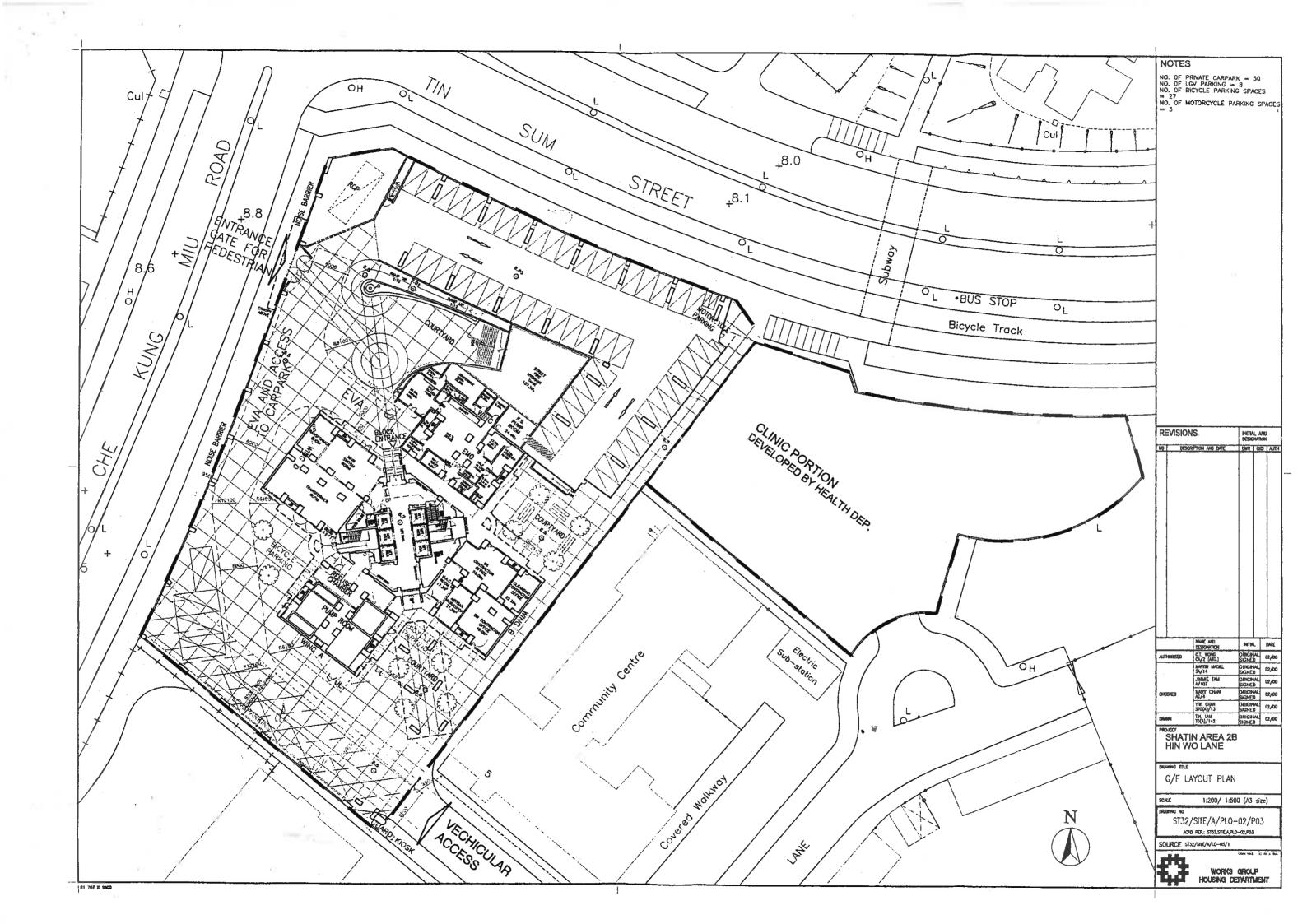
5. DESIGN CONSIDERATIONS

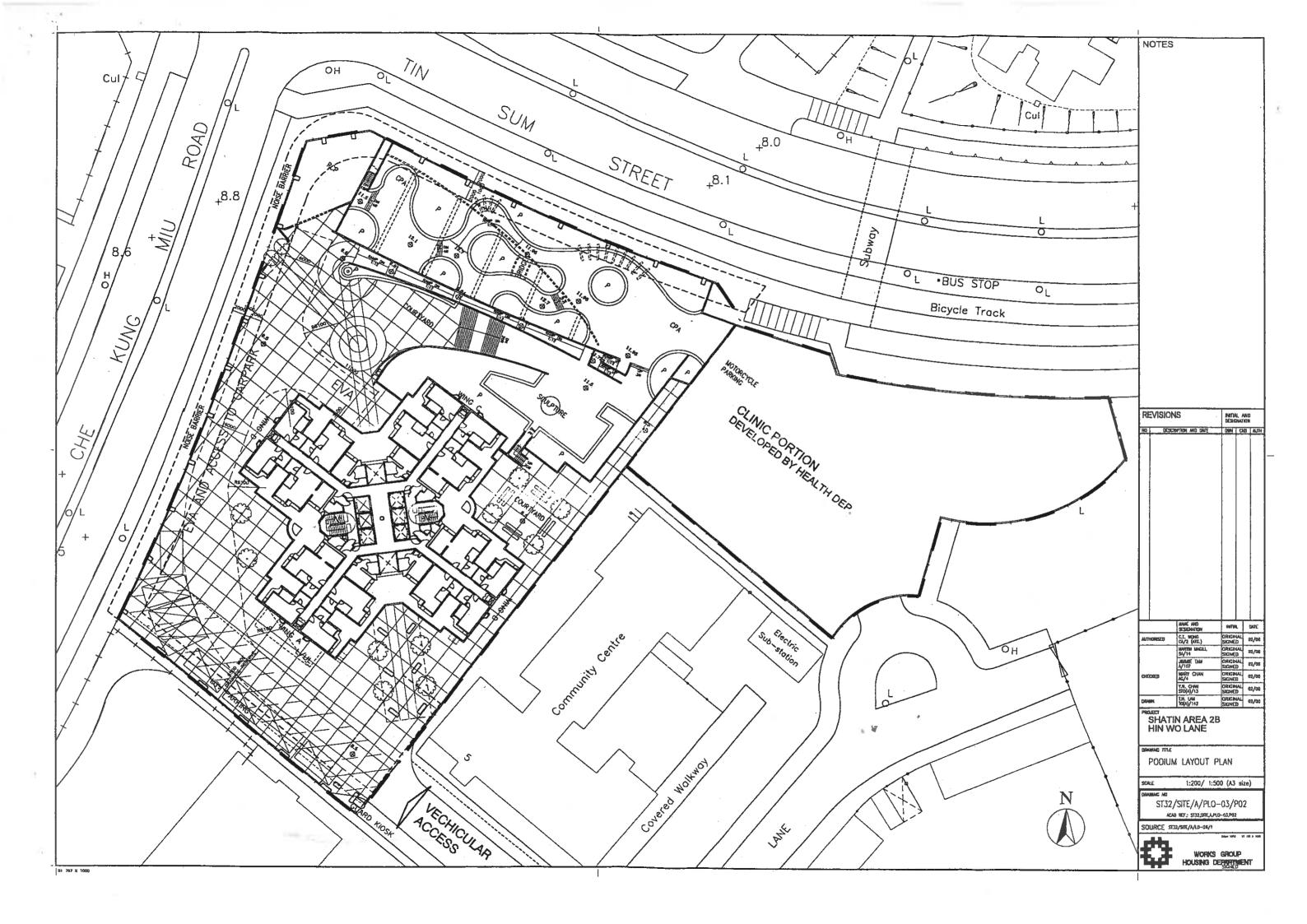
Approved Development Parameters		Proposed Master Layout Plan	Remarks		
5.3	Landscape Design No specific requirement.	Curvilinear planters create a leisure atmosphere and contrasting to the rectilinear building block. Landscaping in the roof garden and pedestrian area is to be designed in safe and secure manner to improve the built environment and			
5.4	Design for the Disabled No special requirement.	All buildings, open spaces, pedestrian circulation and public transport facilities are designed to cater for the needs of the disabled.			
5.5	Graphics and Signage No specific requirement.	Graphic and signage system to be designed in accordance with the D&S's signage manuals.	Reference: Signage Manual for Public Housing Estates.		
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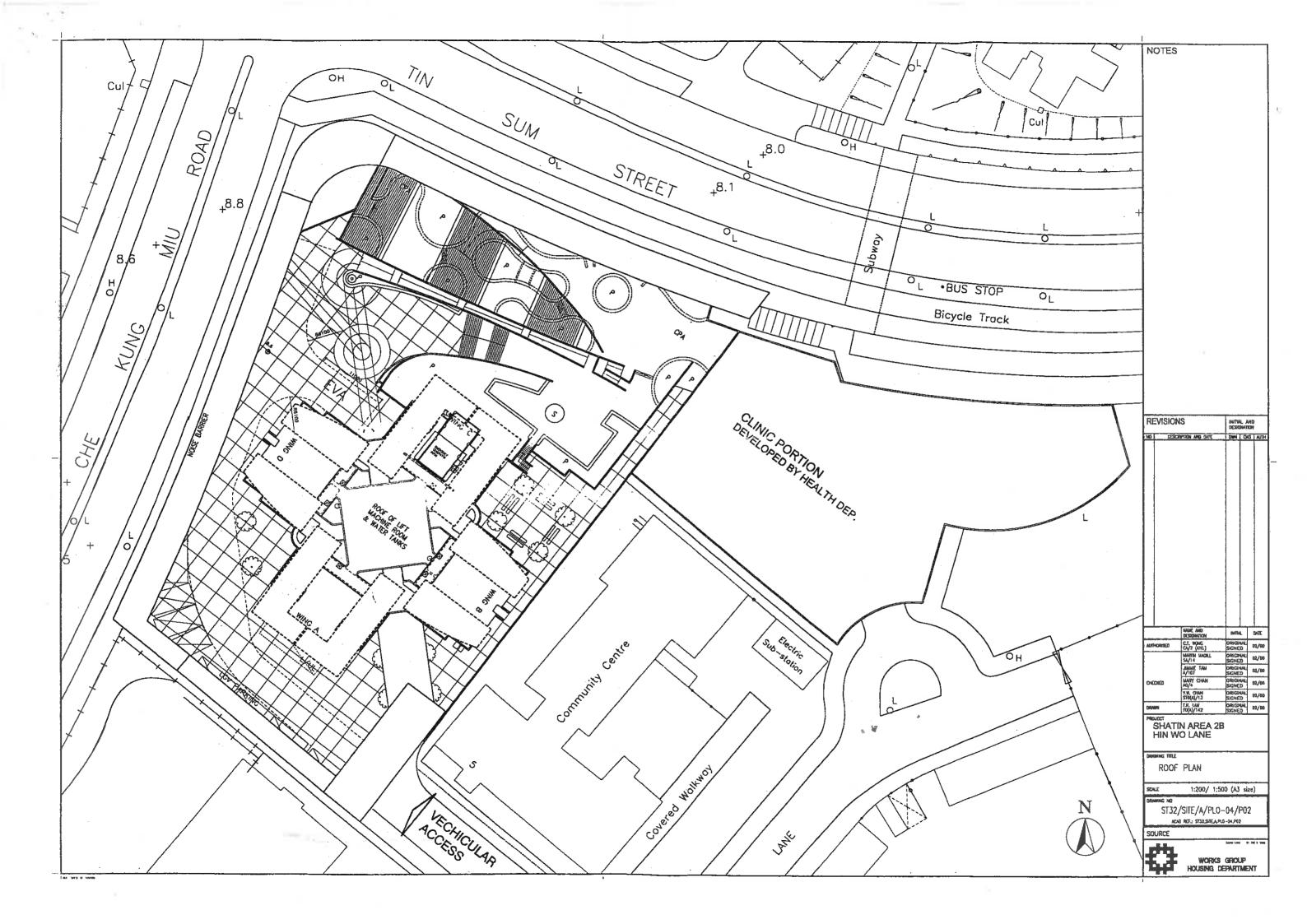
MASTER LAYOUT DRAWINGS

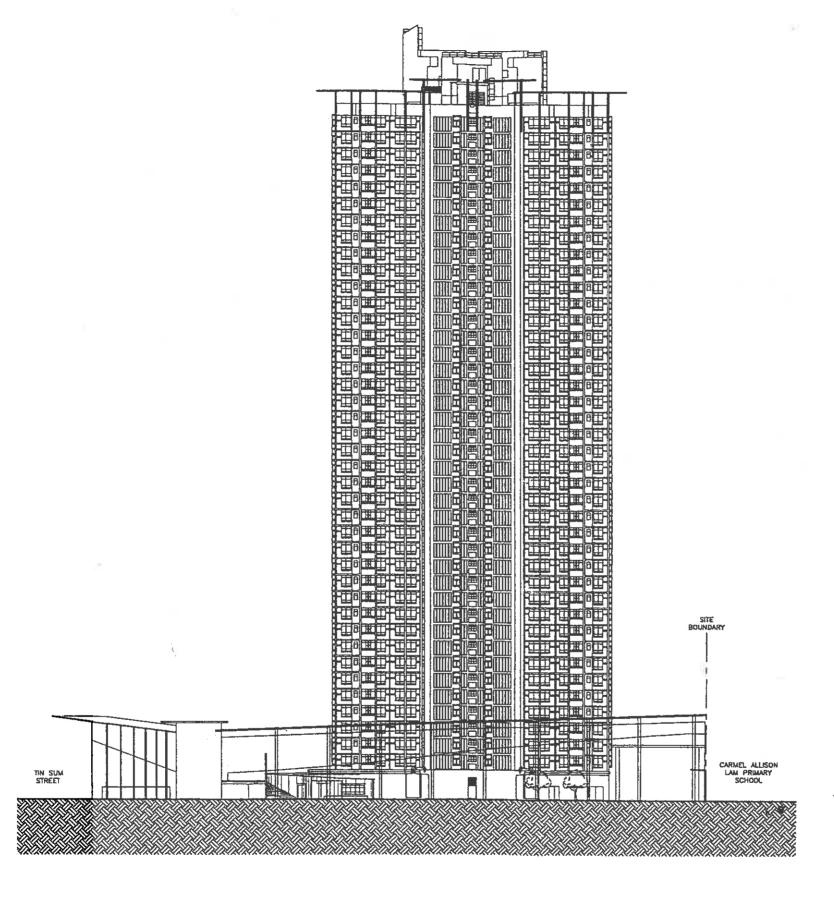
DRAWING LIST: -		
Drawing No.	Revision	Drawing Title
ST32/SITE/A/PLO-01	P02	SITE LOCATION PLAN
ST32/SITE/A/PLO-02	P03	G/F LAYOUT PLAN
ST32/SITE/A/PLO-03	P02	PODIUM LAYOUT PLAN
ST32/SITE/A/PLO-04	P02	ROOF PLAN
ST32/SITE/A/PLO-05	P02	WEST ELEVATION
ST32/SITE/A/PLO-06	P02	SECTION A-A
ST32/BL1/A/PLO-01	P01	BLOCK 1 – G/F PLAN
ST32/BL1/A/PLO-02	P01	BLOCK 1 - F40 PLAN
ST32/BL1/A/PLO-03	P01	BLOCK 1 – UPPER ROOF PLAN WITH SPRINKLER TANK
SK/A/PLO-01	P02	ELEVATION OF NOISE BARRIER
SK/A/PLO-02	P02	AXONOMETRIC VIEW FROM CHE KUNG MIU ROAD
SK/A/PLO-03	P01	AXONOMETRIC VIEW FROM HIN WO LANE









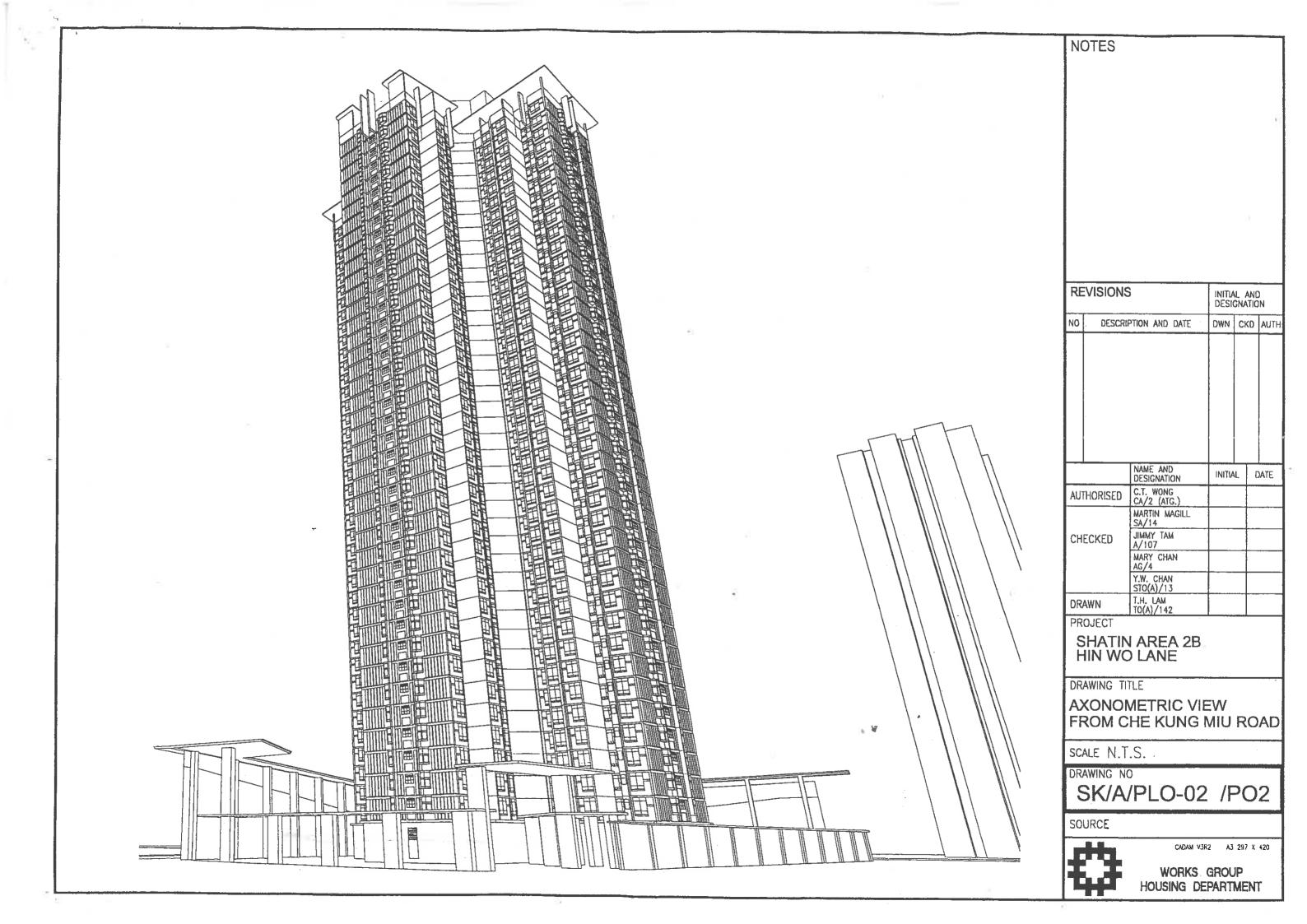


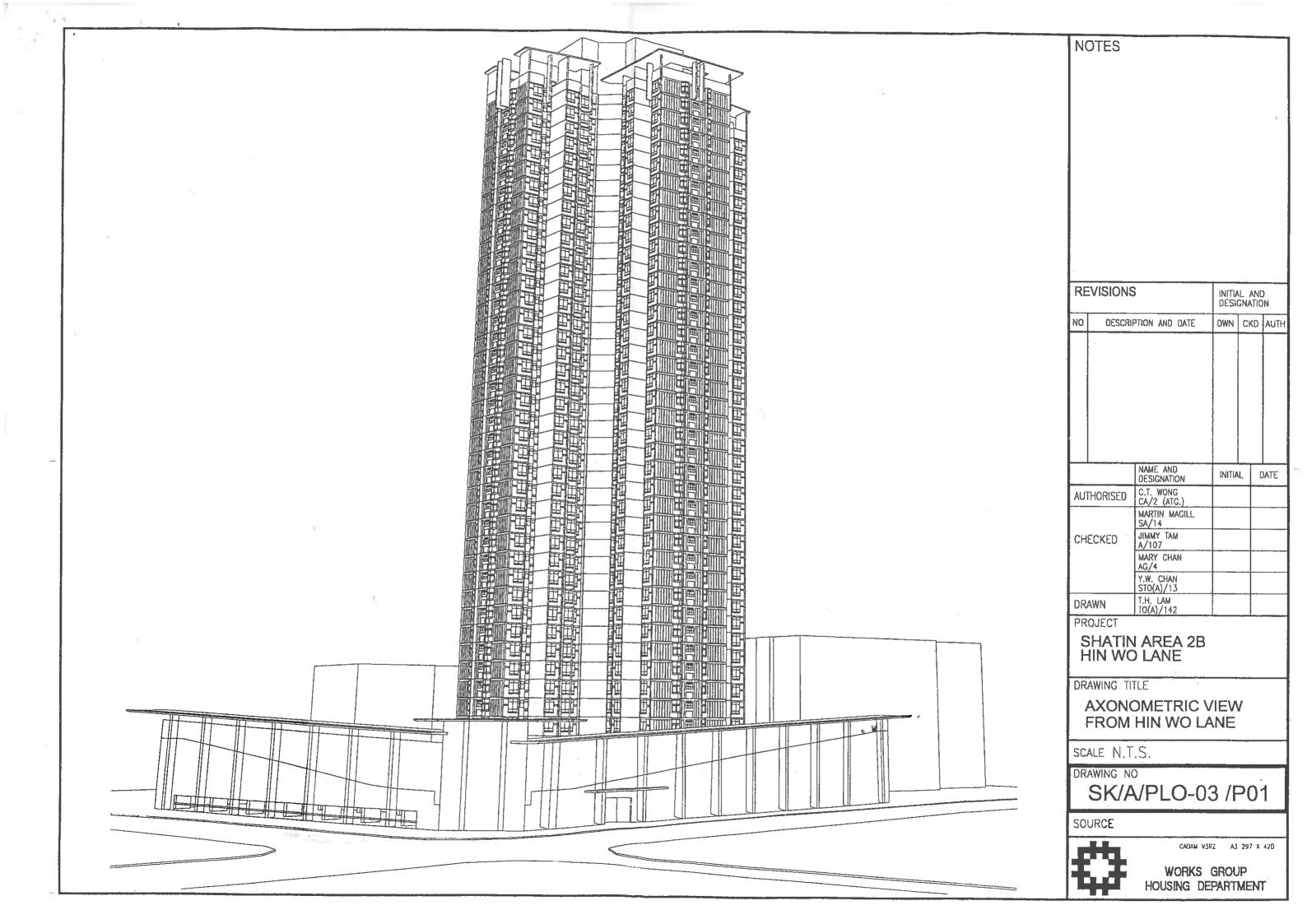
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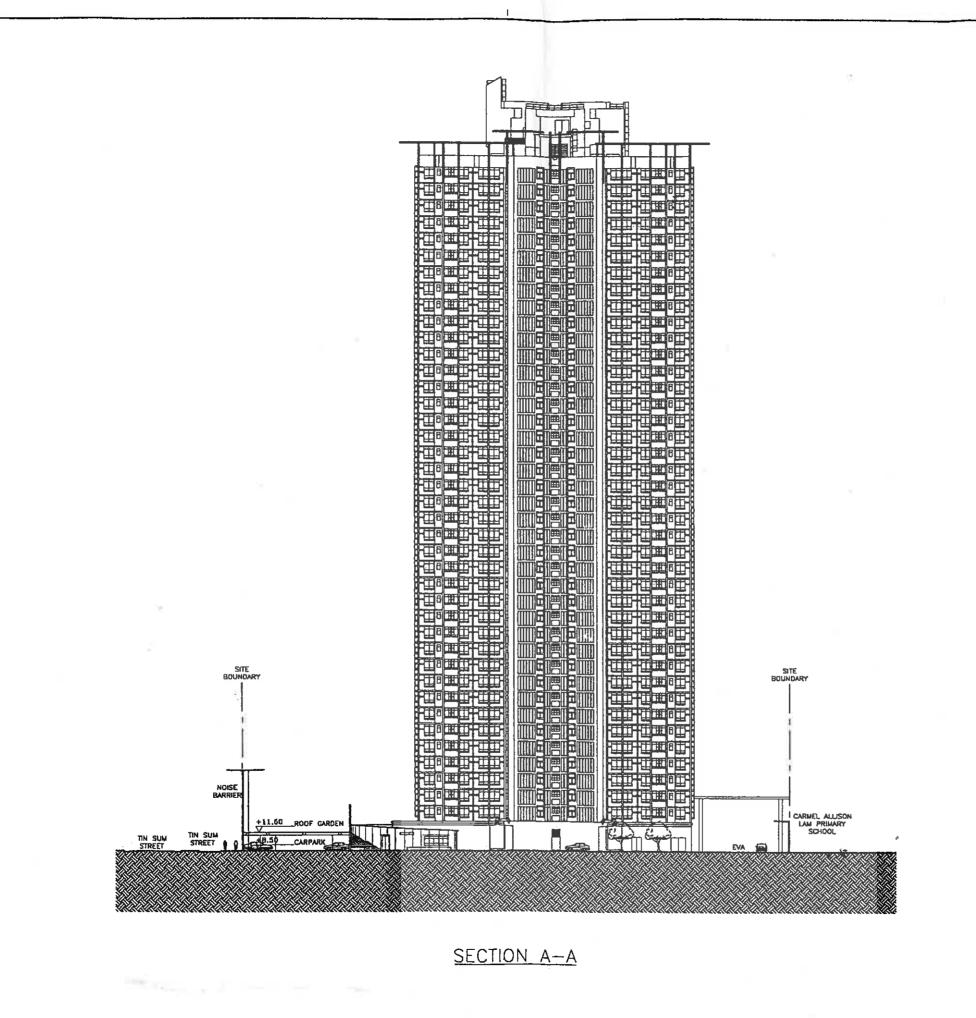
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WORKS GROUP HOUSING DEPARTMENT

NOTES



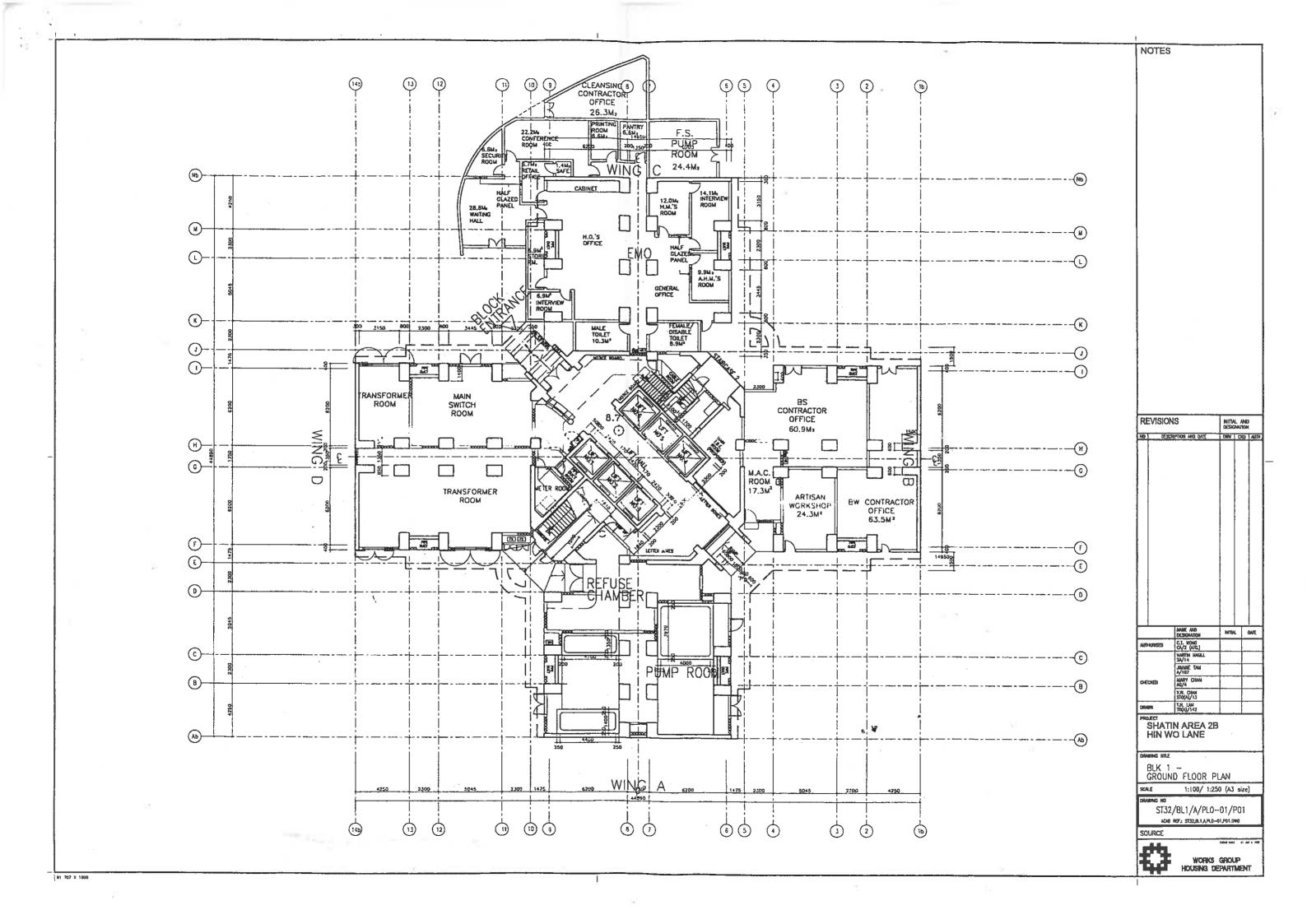


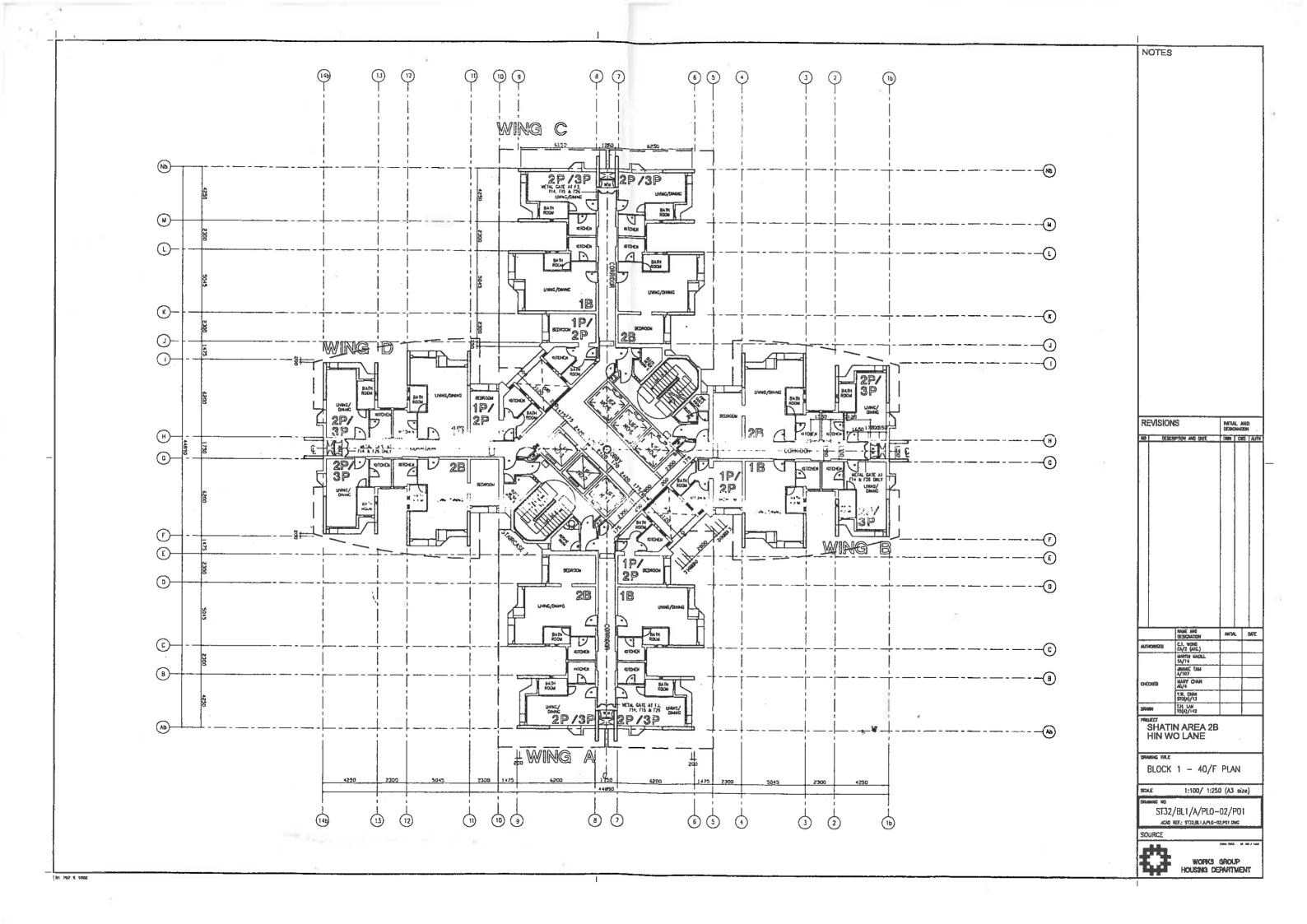


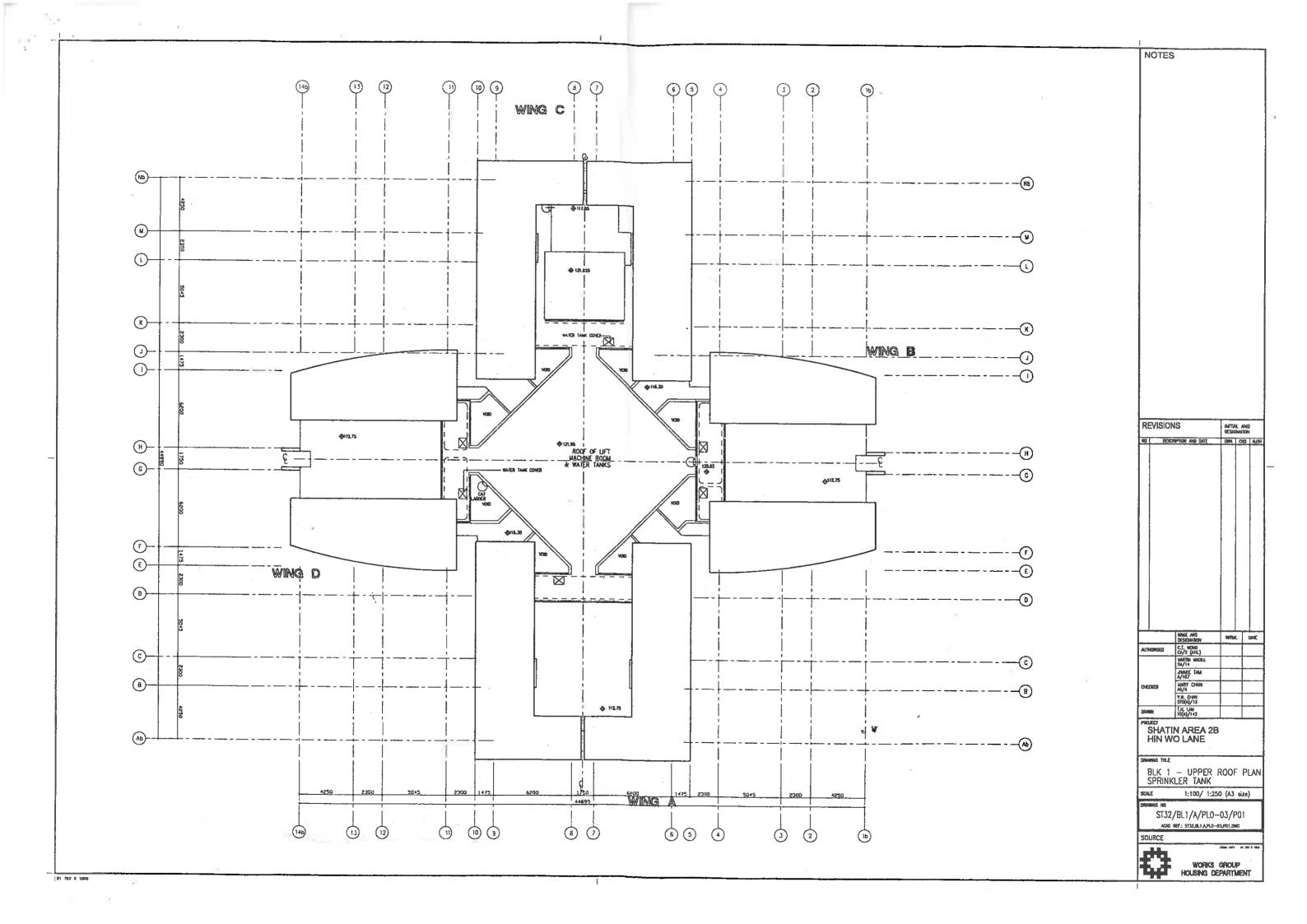
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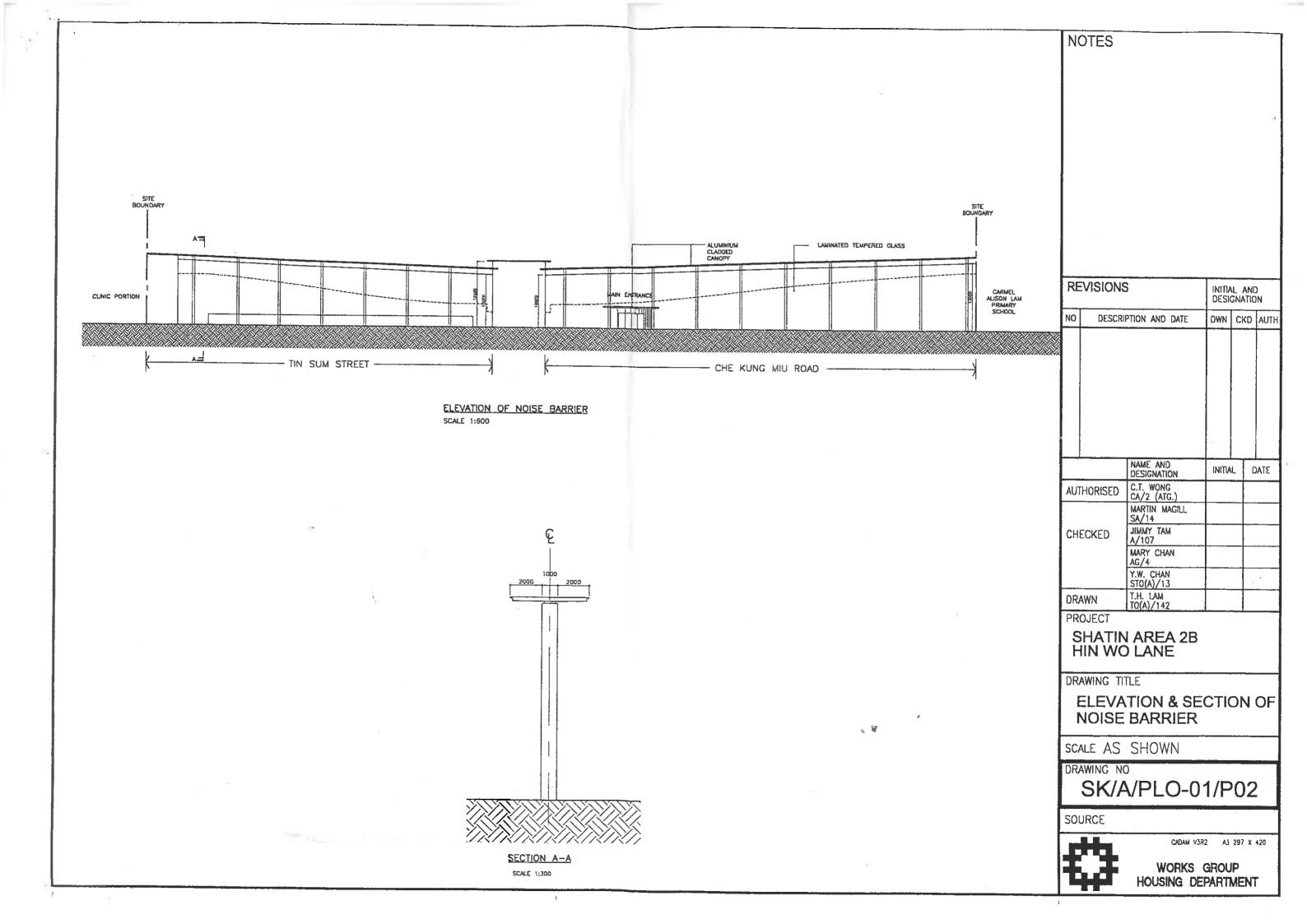
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	DB/MA)	T.H. LAM TO(A)/142	SIGNED	1	1
	PROJECT SHATII HIN WO	N AREA 2B O LANE			
	SECTION	N AA			
	SEAT	1:250/ 1:62	5 (A3	size)	
	DRAFFING NO ST32/	'SITE/A/PLO-	06/P	02	
		67 : ST32,5/EAPLO-0			1
	SOURCE		Catala	A1 50% 9 1003	1
· .	4	WORKS HOUSING DE	GROUF	9	
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NOTES









SHATIN AREA 2B

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AMME	STRATEGIC PLANNING COMMITTE		•	SPC 9/99			l l t			1	1	1		1 1 1 1				1	l l l	1 1 1 1		_	CONSTRUCTION BUILDING CONSTRUCTION
PROGRAMME	MASTER LAYOUT & PROJECT BUDGET	1	1		▼ P2	00	 	1		; ; ; ;	 	1		1				i i i	} []	t t			
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PHASE

SUMMARY OF SITE DEVELOPMENT & CONSTRUCTION COST BUDGET NO. 5

PROJECT : Shalin Area 2B PHASE : - PHDP Code :

				COST	ORTIONS				Comm	en Hener	
	PRH	HOS	cc	CP (PC)	WEL	אט	GN	OCP(LGV)	18	EW	Total
CFA of Cool Portlets (m2)	36,014			1,367	23	509					
										•	37,913

					1,361	23	309	1 .	•	<u> </u>		37,913	
COST ITEMS							Estimated Co	es la Conn					Fluctuation
A. Site Breglenment & Construction Cost Budget At June 1999						··		11.10.3,000					Provilens
(Exclusing Purchasiung & Tender Price Inflation)			İ	· '	1 1			'	1				
1.0 file Development Casts			, '									ļ '	
1.1 Mit Fermation Contract					'			1					
1.2 Destablition Contract					• '				- 1] .	
		·				١ ٠							
2.0 Construction Custs					1				!				
2.1 Foundation Contract					1				l '				
2 11 Building Foundations		18,922	١ .		1,062	13		1	l .		1		
2 12 External Works for Specific Businesses		5,688			216	1 7	260 As	1 .				20,277	
		.,	1	1		i '	"	i -	i -	•	i •	5,9 u i	-
2.2 Building Contract													
2.21 Building Works (excl. building services)		156,294			2,474	129	1,859	Ι.	194		1		
1.21 Bullding Services		18,506	١.		177	10	214	1 .	l '."		1 -	161,950	7,912
2 33 Temps for Struckson		•	· ·	-		۱.	-	:	[1 :	1 :	39,007	•
124 Public Transport Interchange		٠ ا			٠.		.			1 :	1 :	1 .	•
2.15 External Warks for commonly shared elements 2.26 External Works for Specific Businesses		٠ ا	· .				١.					:	
2.27 Automated Rahme Collection System		38,991	l •		1,481	17	550					41,049	2,212
		٠.		٠.		-) ·		-	١.	١.	71,217	2,614
2.1 Other Separate Contracts (Incl. Softliandscape)		134	· ·	٠.	31	1	12	l .	١.	l .	١.	223	,
Cost Budget At June 1999 Price Level	(A)	259,239	•	-	5,542	184	1,995	<u> </u>	194		 	 	
B. Cent Estimate Projected To		 				 		<u> </u>	134	<u> </u>		269,154	10,130
Responsed Batter of Transfers Cart in Liem (A) alen Cast 3 (v), (w), (b)	er (x) l	1				ļ	i						
		ŀ			1		i		1	1	1	i	
			ļ				1	1	{	Ī	1	1	
1.8 Site Decalesment Curts		i	1	J		1	1	1	ſ	1	[1	
1.1 Site Formation Contract	Tatal (S'M)			}]	[1		İ	1		
1.1 Demolition Contract	3 .	1 :	٠.		-	, .	-			1 .			
	• •						١ ٠	1 -			i .		_
1.0 Canatruciles Cauls]	1	1		1	1	1		1	
2.1 Foundation Contract				l			i		1]	1	I	
2.11 Building Foundations		19,639	١.	١.	1,102	13	291		I	Į	1		
2.12 External Works for Specific Businesses		5,904	:	1 .	224	1 "	1 291	1 :		· 1	1 •	21,045	
		.,.		i	***	1	"	Ι.		-		6,215	
3.2 Building Contract			1	1	[1]	i			į.	
2.21 Building Works (ext.), building sen-fors)	72	166,779			2,640	136	3,051	١.	207	١.			
2.12 Building Services	•	41,089			296	11	128		"."	l :	1 :	172,815	8,443
2.33 Transfer Bruchares		١.	٠ ا	١ ٠				.		1 :	1 :	11,024	•
2.74 Public Transport Interchange	3.9		٠ .				.		١.	[1 .	l :	-
2.25 External Works for sommonly shared elements	•	١ ٠	· ·	١.	١.	١.	١.	.	1 -	i .		:	
1 26 External Works for Specific Businesses 2.27 Automated Refuse Collection 63 sterm	•	41,607	١ ٠		1,590	29	587	١.	} .		1 .	43,303	2,367
•	-	٠.	٠ ا				-	j .			.	45,403	2,363
1.) Other Separate Contracts (incl. Softlandscape)	8	894	ļ. <u>.</u>		34		<u> </u>	<u>.</u> .		١.	١.	942	_
Cost Sudget To Proposed Dates Of Tundare	(B)	275,912	١.	-	5,876	196	4,253		207	<u> </u>	1	236,444	10.810
			Щ.		٠	<u> </u>	<u></u>	<u></u>	L		1.	440,444	10,210

Types of Cantract Site Formation	Tender in Dates	Adiustment for manths after June 1999	
Demolition	- 3	- Months x # % / 12 =	(v)
Foundation	7/2000	Months x # % / 12 =13	(w)
Building (for inflation adjustment, "External Works", "Others", etc.,		13 Months x 3.5 % / 12 =0.037917	(5)
Tender-in Dates to be taken the same as "Building")	5/2001	21 Months x 3.5 % / 12 =0.067021	(a)

For the basis, exclusions and notes of this Cost Budget, please refer to information shown on Fage 2.

Page 1 of 9

DQ01-F31 (E.14449)

4.



SUMMARY OF SITE DEVELOPMENT & CONSTRUCTION COST BUDGET NO. 5 (cont'd)

FAG	SECT ORDER ATTER TO THASE.	IIDF Coue :						
	It don't do							- 1
PRH	nd for Cost Portlant : - Public Rental Housing		CD.					
HOS	- Home Ownership Scheme		CP WEL		Carpark	UN		Unallocable
CC	- Commercial (Shopping) Centre		GN	•	Welfare & Community Facilities	TS		Transfer Structure
	Commission (anopping) Came		ON	•	Government Non-reimbursable	EW	20	External Works
Notes	_i							
(1)	All prices are at June 1999 price level and adjusted fo	or tender price inflation to tender in dates of co	ontracts based on 3.5	% per ar	num.			
(2)	Apportionment of the Construction Costs are in acco	rdance with the existing cost apportionment gr	uldelines set out in rel	evant D(MBI.			
	Reasons for Cost Difference from Standard Cost Yo							
(4)	The costs for softlandscaping, utilities connections, of	ic. shall be grouped under Other Separate Co	ntracu, .					
(5)	The fluctuation provisions shall be worked out based	on the formula as shown on the Guidance No	ites for Standard Cost	Yardstic	(5.			
Inclu	sions :							
(1)	ILPRADUPTARY							
(1) (2)	ulions: Project Management Costs, e.g. professional service Other Project Costs, eg. traffic and environmental sh advisory services, construction material test, piling to	udles, land surveying studies, site putential and	d other engineering st	udies, sit	investigation, geotechnical			
	mptions : Common architectural finishes and fittings are allow	ed for external areas including Podium Garder	n.					
	of the Budget :	0						
(1)	Project Information Included in Memorendom for the and Drawing No. KL23/6/BLKHH/S/EF001 issued of	e Strategie Planning Committee. on 9th February 2000 Lenes sef. B241/29						
(2)	Drawings issued on 16 February 2000 under cover o	f AG/4's letter ref. HD(AR)55/693/1.	5.7					
(3)	SE/69's memo ref. HD(SE2)55/693/1.							
Preni	nred by :	Daniel Tsol	(PQS's Name)		Paldamenta & Coulo Con	461 .		
- p .			(r do s trame)		Bridgewater & Coulton Ltd.	(Name of	Consultant Firm)	ı
		8						
Date	:	4th May 2000						

Page 2 of 9

Construction Cost Budget No5	(Domestic Blocks:	Public Rental Housing Portion)
------------------------------	--------------------	--------------------------------

Project:

Shatin Area 2B

Phase -

(PHDP Code: ____)

		Cost pe	r Flat	
Cost at June 1999 Price Level	No. of	Foundation	Building	TOTAL
Cost at June 1999 i lice Eave.	Flats	(Incl	(Excl	ļ
		Caps)	Čaps)	
1.0 Standard Blocks				
(a) New Harmony Block (Type 1 Option 6, Block No. 1, 41 Storeys)				
- 1 B Flat	160	21,900	258,660	280,560
2 B Flat	160	28,780	339,910	368,690
	159	12,810	151,240	164,050
- 1P/2P Flat	320	16,490	194,750	211,240
- 2P/3P Flat	799	12,		
		15.422	\$,000 182,138	197,560
Cost per Flat x Flat No. = Sub-Total (A) (Total CFA = 36,546 m2)		15,422	162,136	197,300
(10tal Cl A 30,340 112)				(\$ 5,406 /m2 CFA
				(\$ 247,259 per flat
.0 Adjustments to Item 1.0 Above		7.644		3,644
a) Adjust for foundation to domestic block based on prelimina	ry design	3,644	1.570	
 b) Ddt. Basic carcase of ancillary/welfare facilities in domestic 	block	-293	-1,570	-1,863
= 532 m2)		_	કે,02 \$	9,028
c) Add allowance for single block project	ļ	149	559	708
d) Add for provision of street hydrant tank and pump room	1	- '	68	68
e) Add for upgrading of window glazing from 5mm to 6mm	1	-	4,577	4,577
f) Add for provision of window A/C units and R.C. hoods		-	7,277	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		7.500	12,662	16,162
Sub-Total (B)	- 1	3,500	14,00-	(5 449 /m2 CFA)
				(\$ 20,228 per flat)
(Total CFA = 36,014 m2)	- 1		9.10	% over that calculated
· · · · · · · · · · · · · · · · · · ·				
			based o	on Standard Yardsticks
Pleater				
.0 Non-standard Domestic Blocks				
		<	S'000—	
Cost per Flat x Flat No. = Sub-Total (C)	Į	-	-	-
(Total CFA = - m2)	I			(S - /m2 CFA
(10m 01.1				(S - per fian
		1		
Total Cost of Domestic Block - Public Rental Housing	i	1		
Total Cost of Domestic Block - Public Rental Housing Portion at June 1999 Price Level = (A) + (B) + (C)		18,922	194,800	213,722
Total Cost of Domestic Block - Public Rental Housing Portion at June 1999 Price Level \Rightarrow (A) + (B) + (C) (excluding Provisions for Contract Fluctuations)		18,922	194,800	213,722 (\$ 5,934 /m2 CFA) (\$ 267,487 per flat)

Remark

* Standard Yardsticks for the project are calculated on the basis of standard yardsticks for each flat type adjusted to the tender-in-date.

Construction Cost Budget No. ____5___ (Welfare Portion)

Project:

Shatin Area 2B Phase - (PHDP Code: ____)

		Estimate	d Cost	
Cost at June 1999 Price Level	CFA	Foundation	Building	TOTAL
	(m2)	(Incl	(Excl	1
		Caps)	Caps)	
		<	\$'000	>
1.0 Welfare Facilities	1		1	
in Domestic Block)		-		•
(G/F or Upper Floors)	İ			
TOTA OF OPDET X 100131				
	1			
		1		
(a) Welfare facilities (no fitting out included)	23	11	68	79
(a) Wenter facilities (no many our monaces)			}	8
1	1			
]				
(b) Fitting Out for Welfare Facilities	}		64	64
(Total area to be fitted out = 23 m2 GFA)				07
(Total area to be fitted out = 25 like GIA)				1
2.0 Other Adjustments for Item 1.0 Above				
2.0 Other Adjustments for Atom Ato Above				
	ļ			ļ
(a) Adjust for Foundation to domestic block based on		2	<u>-</u>	2
preliminary design		_		1 - 1
b.o.minim's don'th	ĺ			1
(b) Add allowance for single block project		#C	7	7
(a) 1100 min tor mingra proof healass	İ		•	i i
				l l
				[
			 -	
Total Cost of Welfare Portion at June 1999	'	13	139	152
Price Level = Total of Items in 1.0 to 2.0				
(excluding Provisions for Contract Fluctuations)				(\$ 6,609/m2 CFA)
(- 1			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Remarks

1.	Welfare	Portion	includes	the	following	:
	11 012020	TOLLIGIT	1110114003	ше	TOHO WINS	۰

MAC

23

m2 CFA

Construction Cost Budget No. ____5___ (Unallocable Portion)

Project:

Shatin Area 2B Phase - (PHDP Code : ____)

		Estimate	ed Cost	
Cost at June 1999 Price Level	CFA	Foundation	Building	TOTAL
	(m2)	(Incl	(Excl	
		Caps)	Caps)	
		<	\$'000	>
1.0 Ancillary Facilities	}	1		
in Domestic Block)				
(G/F or Upper Floors)				
	ł			
	-			
(a) Ancillary facilities (no fitting out included)	509	229	1,502	1.721
(a) Alichay facilities (no fitting out included)	1 303	1 223	1,502	1,731
				1
(b) Fitting Out for Ancillary Facilities		020	1,425	1,425
(Total area to be fitted out = 509 m2 GFA)				1,1.22
	1 1			
			ļ	1
2.0 Other Adjustments for Item 1.0 Above	1	1		ļ
				ļ.
		51		
(a) Adjust for Foundation to domestic block based on		51	~	51
preliminary design				İ
(b) Add allowance for single block project] [_	146	146
(0) Add allowance for single block project		-	140	140
Total Cost of Unallocable Portion at June 1999	J	280	3,073	3,353
Price Level = Total of Items in 1.0 to 2.0	i			
(excluding Provisions for Contract Fluctuations)	ļ			(\$ 6,587/m2 CFA)

Remarks

1. Unallocable Portion includes the following:

	m2 CFA
Estate Management Office	303
Artisan Workshop	24
BS & BW Contractor Office	139
Cleansing Contractor Office	43
	509

Construction Cost Budget No. _5_ (Carpark Portion)

Project: Shatin Area 2B Phase - (PHDP Code:____)

		Estimate	d Cost	
Cost at June 99 Price Level	Space	Foundation	Building	TOTAL
	(No.)	(Incl	(Excl	1
		Caps)	Caps)	
1.0 Freestanding Carpark Building based on Actual Design	zn	<	\$'000	>
(a) Carpark Portion Private (27.34 m2 CFA per space)	50	2,125	4, 949	7,074
(b) Building Services (c) Ddt for construction cost apportioned to Roof Garden of External Works		- -1,063	553 -2,751	55 3 -3,814
External Works			#IO.O.O.	
Sub-total (A) :- (excluding Provisions for Contract Fluctuat	ions)	1,062	\$'000 2,751	3,813
(Total CFA based on Actual Design = 1,367 m2 & Average CFA per carparking space = 27.34 m2)	-			(\$ 2,789/m2 CFA) (\$ 76,260 / space)
				on Standard Yardsticks

2.0 <u>Difference between Actual Design (item 1.0 above)</u> and Cost Yardsticks due to the following:-	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL	
	<	\$'000	>	
(a) Ddt for adjustment to efficiency ratio of car space	-	-181	-181	
(b) Add for adjustment on cost of foundation based on preliminary design	499	-	499	
(c) Add allowance for single block project	- 227	263	263	
(d) Ddt for construction costs apportioned to Roof Garden of External Works	-1,063	-2,751	-3,814	

<u>Remarks</u>

1. To be in line with the SPC paper, 50% of construction costs of carpark was apportioned to Roof Garden of External Works.

Construction Cost Budget No. _5_ (Open Parking Spaces in External Work)

Project: Shatin Area 2B Phase - (PHDP Code: ____)

		Estimate			
Cost at June99 Price Level	Space	Foundation	Building	TOTAL	
	(No.)	(Incl	(Excl		
		Caps)	Caps)		
1.0 Open Parking Spaces in External Areas Based on A	ctual Design	<	\$'000	<u> </u>	
				!	
(a) Light Goods Vehicle Parking at Open Area	8	pć	194	194	
,					
		l		98	
Sub-total (A) :-			<\$'000		
(excluding Provisions for Contract Fluctua	~~	174	194		
(STREETING TO STREET AND THE CONTROL OF THE CONTROL			(\$ 990/m2 CFA)		
(Total CFA based on Actual Design = 196 m2	ĺ		(\$ 24,250 / space)		
& Average CFA per carparking space = 24.5 m2)					

Construction Cost Budget No. ____5 (External Works - Commonly Shared Across Phases of the Development and Amongst Various HA Busiesses)

Project:	Shatin Are	a 2B	Phase -	(PHDP C	ode :)
Total GEA =	5,730	m2; Total (CFA	37,913	m2; Total LAA =

		Estimat		
	Cost at June 1999 Price Levei	Foundation (Incl Caps)	Building (Excl Caps)	TOTAL
1.0	External Works based on Actual Design (excl. Contract Price Fluctuation)	<i>←</i>	\$,000.00	
(a) (b)	Hard Landscape Works (Amenities) Underground Drainage	54 34	9,614 4,212	9,614 4,212
	Sub-total (A)		13,826	13,826 (\$ 365 /m2 CFA) (\$ 2,413 /m2 GEA)
2.0	Special External Works based on Actual Design (excl. Contract Price Flu	ctuation)	\$,000.00	
(b) (c) (d)	Footbridges/staircases/ramps Noise barrier Aluminium Canopy Shoring and alignment for drainage reserve Add for partial construction costs of carpark apportioned to Roof Garden of External Works	4,925 - 1,063	197 14,965 6,521 2,789 2,751	197 19,890 6,521 2,789 3,814
	Sub-total (B)	5,988	27,223	33,211 (\$ 876 /m2 CFA) (\$ 5,796 /m2 GEA)
ľ	Total Cost of Commonly Shared External Works at June 1999 Price Level = (A) + (B) (excluding Provisions for Contract Fluctuations)	5 ,988	41,049	47,037 (\$ 1,241/m2 CFA) (\$ 8,209 /m2 GEA)
3	Cost of Automated Refuse Collection System at June Price Level (excluding Provisions for Contract Fluctuations)	æ		(S/m2 CFA) (S/m2 GEA)

	Estimated		
Cost at June 1999 Price Level	Soft Landscape	Fees & Others	TOTAL
Cost of Other Separate Contracts (incl. Softlandscaping Work) at June 1999 Price Level (excluding Provisions for Contract Fluctuations)	418	465	883 (\$ 23 /m2 CF/ (\$ 154 /m2 GE

Remarks

- 1. To be in line with SPC paper, 50% construction costs of carpark was apportioned to Roof Garden of External Works.
- Allowance has been made for drainage diversion works to be carried out by separate contracts.

Construction Cost Budget No.	_5	(External Works - Charged to Specific HA Businesses)
		·

Project: Shatin Area 2B Phase - (PHDP Code: ___

		COST PORTIONS						
	Cost at June 1999 Price Level	PRH	HOS	CC	СР	UN	WEL	TOTAL
		\$,000.00						
1.0	External Works based on Actual Design (excl. Contract Fluctuation)							
(a)	Hard Landscape Works (Amenities)	9,132	-		347	129	6	9,614
(b)	Underground Drainage	4,001 838	_	-	1 <i>5</i> 2	56 12	3	4,2 12 88 3
(c)	Soft Landscape & others	1 350			""	.~	1	665
		1						
		1		}				
				1			ļ	
	Sub-total (A)	13,971	-	-	531	197	10	14,709
			<u> </u>					
		←—			\$,000.50		<u> </u>	
2.0	Special External Works based on Actual Design (excl.				ļ			
	Contract Fluctuation)							
		187			7	2	,	197
	Footbridges/staircases/ramps Noise barrier - Foundation costs	4,678	-		178	66	1 3	4,925
	Noise barrier	14,215	-	-	540	201	9	14,965
(d)	Aluminium Canopy	6,194	-	-	235	88	4	6,521
(e)	Shoring and alignment for drainage reserve	2,649 1,010	-	-	101 38	37 14	2 I	2,789 1,063
(I) (a)	Add for partial construction costs of carpark - Foundation costs Add for partial construction costs of carpark	2,613	-	-	99	37	2	2,751
(5)	A Control of the Cont		,					
	2							
	T.							
	Sub-total (B)	31,546	.	-	1,198	445	22	33,211
							.]	
	Maria Channel to Channel to Channel to Channel		1	i	\$,000.00	1		 →
	Total Cost of External Works Charged to Specified HA Businesses at June 1999 Price Level	45,517	_	-	1,729	642	32	47,920
	(excluding Provisions for Contract Fluctuations)	, , , , , , , , , , , , , , , , , , , ,	1					