



Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

華益土力有限公司

Ref : G1001/CS/L288/FEP-04/356/2009
Date : 17 February 2011

China State Construction Engineering (Hong Kong) Ltd.
29/F, China Overseas Building,
139 Hennessy Road, Hong Kong

Attn: Mr. K. Y. Leung

Dear Sir,

FEP-04/356/2009
Contract No. HY/2009/15
Central- Wan Chi Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)
Landscape Plan (Revision 0)

Referring to your submission of the captioned plan (Revision 0 dated 17 February 2011) received through email on 17 February 2011, we have reviewed your submitted details and hereby certify this submission in accordance with Condition 2.21 of Further Environmental Permit no. FEP-04/356/2009.

Should you have any enquiry, please feel free to contact the undersigned at 2839 5666.

Yours faithfully,

Raymond Dai
Environmental Team Leader

c.c. CEDD
HyD
AECOM CWB
AECOM WDII
ENVIRON

- Mr. Patrick Keung
- Mr. Jones Lai
- Mr. Peter Poon
- Mr. Frankie Fan
- Mr. David Yeung

(By Fax: 2577 5040)
(By Fax 2714 5289)
(By Fax: 3529 2829)
(By Fax: 2587 1877)
(By Fax: 3548 6988)

Ref.: AACWBIECEM00_0_0995L.11

17 February 2011

By Post and Fax (2566 2192)

China State Construction Engineering (Hong Kong) Ltd.
29/F, China Overseas Building
139 Hennessy Road
Hong Kong

Attention: Mr. K. Y. Leung

Dear Sir,

**Re: Contract No. HY/2009/15
Central – Wan Chai Bypass – Tunnel (Causeway Bay Typhoon Shelter
Section)
Landscape Plan (Revision 0)**

Reference is made to your submission of the Landscape Plan (Revision 0 dated 17 February 2011) to us through E-mail on 17 February 2011 for our review and comment.

Please be informed that we have no further comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 2.21 of FEP-04/356/2009.

Thank you for your kind attention.

Yours sincerely,



David Yeung
Independent Environmental Checker

c.c.	HyD	Mr. Jones Lai	by fax: 2714 5289
	CEDD	Mr. Patrick Keung	by fax: 2577 5040
	AECOM (CWB)	Mr. Peter Poon	by fax: 3529 2829
	AECOM	Mr. Kelvin Cheng	by fax: 2691 2649
	LAM	Mr. Raymond Dai (ETL)	by fax: 2882 3331

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CONTRACT HY/2009/15

**CENTRAL – WAN CHAI BYPASS
TUNNEL (CAUSEWAY BAY TYPHOON SHELTER SECTION)**

Landscape Plan

Submission Status: For Approval

Revision	Description	Date
0	1 st Submission	17 February 2011

Prepared by:	Kelven Yip		17/02/2011
	Environmental Supervisor	Signature	Date
Checked by	Anna Yu		17/02/2011
	Environmental Officer	Signature	Date
Approved by:	K. Y. Leung		17/02/2011
	Contractor's Representative	Signature	Date

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1.0 Introduction

The purpose of this plan is to demonstrate design details, locations, implementation programme, maintenance and management schedules in accordance with contract requirement, Condition 2.24 of Environmental Permit No. EP-356/2009 and Condition 2.21 of Further Environmental Permit No. FEP-04/356/2009.

2.0 Landscape Mitigation Measures

The proposed landscape mitigation measure during construction phase for HY/2009/15, but not limited to, is listed as below:

- a. Control of night-time lighting

3.0 Identified Visual Sensitive Receivers

The following visual sensitive receivers (VSRs) are likely to be affected during the construction phase of this project:

- C/R4 (Elizabeth House);
- C/R5 (Riviera Mansion);
- C/R6 (Prospect Mansion);
- C/R7 (Miami Mansion);
- C/R8 (Marco Polo Mansion);
- C/R9 (Victoria Park Mansion);
- C/R18 (Belle House);
- C32 (Excelsior Hotel);
- C36 (Citicorp Centre); and
- C37 (Victoria Centre).

The above VSRs are mapped in Appendix B.

4.0 Sources of Night-time Lighting Impacts

Sources of night-time lighting impacts during construction phase would include:

- Site investigations;
- Dredging and reclamation works;
- Construction of seawalls;

- Construction site traffic;
- Wind-solar powered pole lighting or other lighting devices at site offices;
- ¹Signal sensor light on yellow marker buoys which are laid to mark the position of the anchors extending from the working vessels; and
- ²Signal sensor light which are laid to mark the extent of the silt curtain.

5.0 Control of Night-time Lighting

The following measures, but not limited to, would be implemented where practical to minimize impact:

- a. Carefully planning of any night-time work would be adopted to minimize the use of unnatural lighting;
- b. The need of using lighting devices would be carefully assessed based on work task to minimize usage;
- c. Where lighting devices are needed to be operated, the devices would be aimed away from the visual sensitive receivers where necessary.
- d. For all floodlights mounted on the dredger (grab), the direction of light would be oriented to open sea and barge where possible.
- e. Signal sensor light would be attached on buoys and silt curtain only for the purpose of ensuring safe navigation.
- f. Wind-solar powered lighting pole or site office lighting will be oriented away from VSRs.

6.0 On Site Supervision of Night-time Lighting

The lighting impact will be monitored and assessed by designated person during night-time construction work. Upon any public concerns or complaints, the lights will be repositioned or shielded where necessary.

¹ Referring to Marine Department Notice No. 157, 176, 179 & 192 of 2010

² Ditto.

7.0 Implementation Programme, Maintenance and Management Schedule

Implementation Programme

Mitigation Measures	Location / Period
Control of night time lighting	Entire works area and construction phase involving marine works (Tentative schedule: 3 Dec 2010 to 20 Aug 2015)

Maintenance and Management Schedule

Maintenance and Management Schedule
Floodlights shall be checked every night to ensure that they are controlled to divert from sensitive receivers where practical.

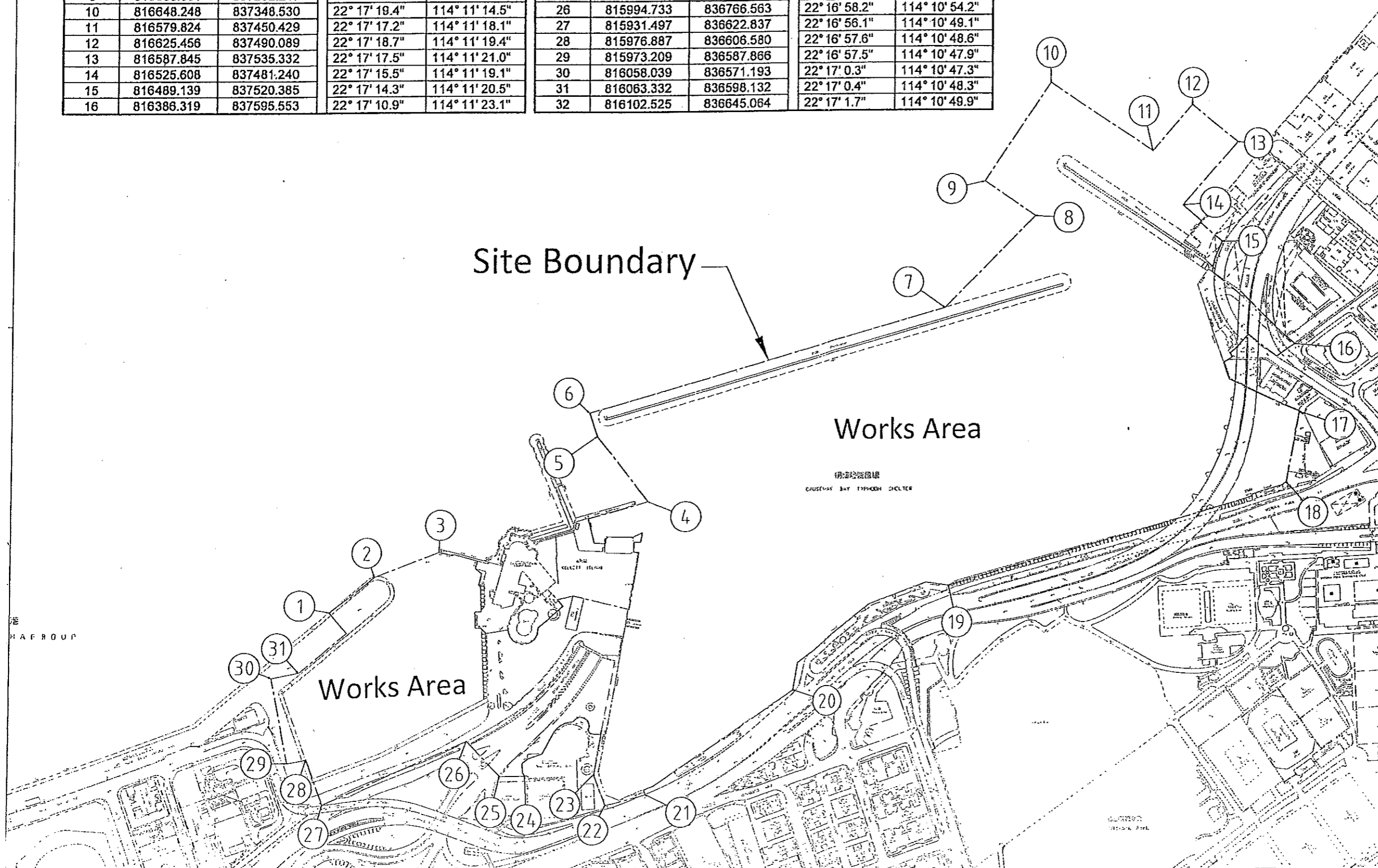


Appendix A

Site Layout Plan

Point	HK 1980 Grid Coordinate		WGS 84 (Deg°MM'SS.S")	
	Northing(m)	Easting(m)	Latitude(N)	Longitude(E)
1	816123.163	836627.778	22° 17' 2.4"	114° 10' 49.3"
2	816158.294	836672.793	22° 17' 3.5"	114° 10' 50.9"
3	816183.090	836737.200	22° 17' 4.3"	114° 10' 53.1"
4	816233.339	836944.955	22° 17' 6.0"	114° 11' 0.4"
5	816297.883	836893.247	22° 17' 8.1"	114° 10' 58.6"
6	816321.616	836885.404	22° 17' 8.8"	114° 10' 58.3"
7	816424.234	837243.006	22° 17' 12.2"	114° 11' 10.8"
8	816515.377	837333.839	22° 17' 15.1"	114° 11' 14.0"
9	816550.091	837282.247	22° 17' 16.3"	114° 11' 12.2"
10	816648.248	837348.530	22° 17' 19.4"	114° 11' 14.5"
11	816579.824	837450.429	22° 17' 17.2"	114° 11' 18.1"
12	816625.456	837490.089	22° 17' 18.7"	114° 11' 19.4"
13	816587.845	837535.332	22° 17' 17.5"	114° 11' 21.0"
14	816525.608	837481.240	22° 17' 15.5"	114° 11' 19.1"
15	816489.139	837520.385	22° 17' 14.3"	114° 11' 20.5"
16	816386.319	837595.553	22° 17' 10.9"	114° 11' 23.1"

Point	HK 1980 Grid Coordinate		WGS 84 (Deg°MM'SS.S")	
	Northing(m)	Easting(m)	Latitude(N)	Longitude(E)
17	816318.982	837600.533	22° 17' 8.7"	114° 11' 23.3"
18	816248.756	837588.973	22° 17' 6.5"	114° 11' 22.9"
19	816147.576	837248.874	22° 17' 3.2"	114° 11' 11.0"
20	816044.312	837091.645	22° 16' 59.8"	114° 11' 5.5"
21	815941.724	836945.745	22° 16' 56.5"	114° 11' 0.4"
22	815931.125	836905.152	22° 16' 56.1"	114° 10' 59.0"
23	815961.289	836893.217	22° 16' 57.1"	114° 10' 58.8"
24	815960.075	836824.609	22° 16' 57.1"	114° 10' 56.2"
25	815959.749	836799.530	22° 16' 57.1"	114° 10' 55.3"
26	815994.733	836766.563	22° 16' 58.2"	114° 10' 54.2"
27	815931.497	836622.837	22° 16' 56.1"	114° 10' 49.1"
28	815976.887	836606.580	22° 16' 57.6"	114° 10' 48.6"
29	815973.209	836587.866	22° 16' 57.5"	114° 10' 47.9"
30	816058.039	836571.193	22° 17' 0.3"	114° 10' 47.3"
31	816063.332	836598.132	22° 17' 0.4"	114° 10' 48.3"
32	816102.525	836645.084	22° 17' 1.7"	114° 10' 49.9"



路政署
 HIGHWAYS DEPARTMENT
 主要工程管理處
 Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS
 AND IEC LINK

TITLE
 General Layout Plan

AECOM
 AECOM Asia Co. Ltd.
 (Formerly known as Mounsell Consultants Asia Ltd.)

中國建築工程(香港)有限公司
 CHINA STATE CONSTRUCTION ENG'G. (HONG KONG) LTD.

DRG. NO. 圖紙編號	CWB/MN/SK-001	
CONTRACT NO. 合約編號	HY/2009/15	DATE OF ISSUE 發出日期
		21-09-2010
CHECKED BY 校核	KYCHAN	DRAWN BY 繪圖
		KCCHUNG
SCALE 比例	1:4000	STATUS 階段
DIMENSIONS ARE IN 單位尺寸	METRES	PAPER SIZE 圖紙尺寸
		A3

Appendix B

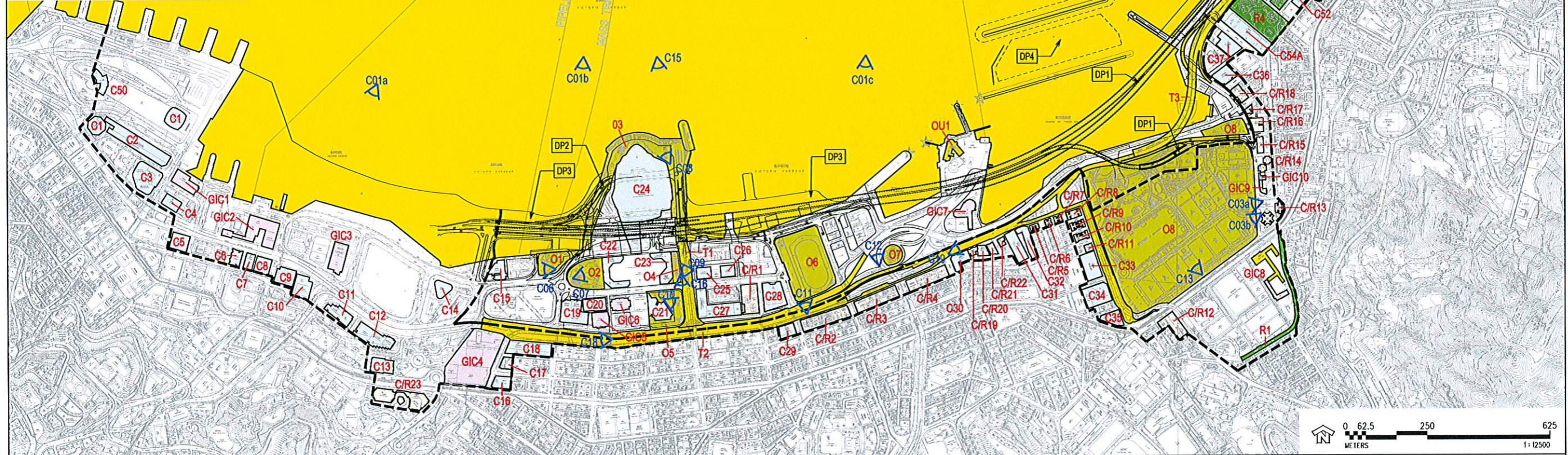
Location Plan of Visual Sensitive Receivers

KEY FOR VISUAL SENSITIVE RECEIVERS

- | | | | |
|--|---|---|--|
| C1 International Finance Centre | C/R1 Causeway Centre | GIC1 General Post Office | R1 Residential Properties fronting Tung Lo Wan Road |
| C2 Hong Kong Station Development Phase 2 | C/R2 160-169 Gloucester Road | GIC2 City Hall | R4 Harbour Heights |
| C3 Exchange Square | C/R3 210-226 Gloucester Road | GIC3 PLA Headquarters at Tamar | R5 Residential Properties fronting King Wah Road |
| C4 Jardine House | C/R4 Elizabeth House | GIC4 Hong Kong Police Force Headquarters, May House | R6 City Garden |
| C5 Mandarin Hotel | C/R5 Riviera Mansion | GIC5 Revenue Tower | R7 Provident Centre |
| C6 Hong Kong Club | C/R6 Prospect Mansion | GIC6 Wan Chai Tower | S1 Harbour Traffic |
| C7 Ritz Carlton Hotel | C/R7 Miami Mansion | GIC7 Police Officers' Club | T1 Wanchai North Road Network - vehicular - pedestrian |
| C8 AIA Tower | C/R8 Marco Polo Mansion | GIC8 Queen's College | T2 Gloucester Road Corridor - vehicular - pedestrian |
| C9 Hutchison House | C/R9 Victoria Park Mansion | GIC9 Hing Fat Street Post Office | T3 Island Eastern Corridor |
| C10 Bank of America Tower | C/R10 Chestorfield Mansion | GIC10 Victoria Park School for the Deaf | |
| C11 Far East Financial Centre | C/R11 Greenfield Mansion | GIC11 YMCA | |
| C12 Admiralty Centre | C/R12 Properties fronting Causeway Road | GIC12 Electric Road Municipal Services Building | |
| C13 United Centre | C/R13 Park Towers | O1 Fenwick Pier Street Public Open Space | |
| C14 CITIC Tower | C/R14 Viking Garden | O2 HKCEC Open Space | |
| C15 Fleet Arcade | C/R15 50-52 Hing Fat Street | O3 HKCEC Extension Open Space and Promenade | |
| C16 Asian House | C/R16 Mayson Garden Building | O4 Renaissance Harbour View Plaza | |
| C17 Chung Nam Building | C/R17 Garden House | O5 Central Plaza Open Space | |
| C18 Fleet House, Harcourt House | C/R18 Belle House | O6 Wanchai Sports Ground | |
| C19 Telecom House, Hong Kong Arts Centre, Harbour View International House | C/R19 Top Glory Tower | O7 Tunnel Approach Rest Garden | |
| C20 Shui On Centre | C/R20 Hoi Kung Court | O8 Victoria Park | |
| C21 Central Plaza | C/R21 Hoi To Court | O9 Tsim Sha Tsui Waterfront Promenade | |
| C22 Grand Hyatt Hotel | C/R22 Hoi Daen Court | OU1 Royal Hong Kong Yacht Club | |
| C23 Renaissance Harbour View Hotel | C/R23 Pacific Place Complex | | |
| C24 Hong Kong Convention and Exhibition Centre | | | |
| C25 Great Eagle Centre | | | |
| C26 Harbour Centre | | | |
| C27 China Resources Building | | | |
| C28 Sun Hung Kai Centre | | | |
| C29 AXA Centre | | | |
| C30 Sino Plaza | | | |
| C31 World Trade Centre | | | |
| C32 Excelsior Hotel | | | |
| C33 The Park Lane Hotel | | | |
| C34 Windsor House | | | |
| C35 19-31 Yee Wo Street | | | |
| C36 Citicorp Centre | | | |
| C37 Victoria Centre | | | |
| C38 Ocean Terminal | | | |
| C39 Star House | | | |
| C40 Peninsula Hotel | | | |
| C41 Sheraton Hotel | | | |
| C42 InterContinental Hotel | | | |
| C43 New World Centre and Hotel | | | |
| C44 Wing On Plaza | | | |
| C45 Shangri-La Hotel | | | |
| C46 Tsim Sha Tsui Centre | | | |
| C47 Empire Centre | | | |
| C48 Grand Stanford Harbour View Hotel | | | |
| C49 Nikko Hotel | | | |
| C50 Four Season Hotel | | | |
| C51 Harbour Plaza Metropolis | | | |
| C52 AIA Tower | | | |
| C53 Newton Hotel | | | |
| C54 Electric Centre | | | |
| C54A Sea View Estate | | | |

LEGEND

- PLANNING AND ENGINEERING REVIEW
- STUDY AREA BOUNDARY
- LIMIT OF PRIMARY ZONE OF VISUAL INFLUENCE
- C1 BOUNDARY OF KEY VSRs
- C01 PHOTO TAKING POINT WITH PHOTO NO.
- COMMERCIAL
- COMMERCIAL / RESIDENTIAL
- RESIDENTIAL
- RECREATIONAL
- GOVERNMENT / INSTITUTION / COMMUNITY
- TRANSPORT
- DP1 CENTRAL-WANCHAI BYPASS (CWB) INCLUDING ITS ROAD TUNNEL AND SLIP ROADS
- DP2 ROAD P2 AND OTHER ROADS WHICH ARE CLASSIFIED AS PRIMARY/DISTRICT DISTRIBUTOR ROADS
- DP3 RECLAMATION WORKS INCLUDING ASSOCIATED DREDGING WORKS
- DP4 TEMPORARY TYPHOON SHELTER



WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

KEY VSRs AND PRIMARY ZONE OF VISUAL INFLUENCE DURING CONSTRUCTION

FIGURE 10.4