Proposed SCAA Sports Link at South China Athletic Association 88 Caroline Hill Road in Wong Nai Chung S16 Planning Application	

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Geotechnical Planning Review Report



Geotechnical Planning Review Report for Proposed SCAA Sports Link at South China Athletic Association

Section 16 Application | 88 Caroline Hill Road, Hong Kong

B190171.GPR01 Rev. D | 17 September 2025

South China Athletic Association

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1. Introduction

1.1 The Project

The proposed development will be situated on the existing level platform at South China Athletic Association at 88 Caroline Hill Road, with a total area of approximately 6,131.97m². The site was once occupied by the North Stand and ancillary structures of the Sport Ground during the 1970s to 1990s. The proposed site is a developed area with land formed after demolition works in late 90s. In the 2000s, substantial reformation of the site was carried out after the clearance and demolition of the north stand of the sport ground.

The development site is bounded by Caroline Hill Road to the north and east. There is a football court supported mainly by a temporary anchored bored pile wall to the west and south, with precautionary raking strut supports against the wall face. Switch room and then staircase building are located to the northwest of the proposed site.

Location and layout of the Site are shown on **Figures 1 and 2**. General views of the development site is shown in **Plates 1 to 4**.

1.2 The Report

This Geotechnical Planning Review Report (GPRR) is prepared in conjunction with the planning application in view that the proposed development at the site may affect or be affected by man-made slopes.

The content of the GPRR is prepared to address the followings:-

a) There are geotechnical features located within and in the vicinity of the site. The stability of these features could affect and be affected by the development.

1.3 Employer

South China Athletic Association

1.4 Lead Architect / Consultant

Design 2 (HK) Limited

1.5 Planning Consultant

KTA Planning Limited

1.6 Structural and Geotechnical Engineers

Fugro (Hong Kong) Limited



2. The Proposed Development

The proposed development layout consists of a 4-storey complex with a total Construction Floor Area (CFA) of around 15,830m², and Gross Floor Area (GFA) of 31,327.12m². The maximum building height is about 36m from the Mean Street Level of +8.811mPD and is about 23.8m above the level of existing football field. A new golf fence extends a further 16.2m above the main building roof of the proposed building to align with the height of the existing Golf Fence rising 40m from the football field. The preliminary Development Layout Plan of the proposed complex is shown in **Appendix A**.

3. DESK STUDY

3.1 Topography

Based on the topographic survey plan prepared by Sam Mak & Associates Surveyors (HK) Ltd. in November 2024, the existing formed platform within the site area is about +7mPD. The existing football field to the west of the development site is about +21.6mPD. The level of Caroline Hill Road bounded to the north and east is varying from about +7 mPD to +11 mPD.

3.2 Geology

Based on the Hong Kong Geological Survey, 1:20,000-scale geological map, Series No. HGM20, Sheet No. 11 – Hong Kong and Kowloon (Edition II – 2012) published by the Geotechnical Engineering Office, majority of the Site is underlain by medium-grained Granite.

A part-print of the geological map extracted from the 1:20,000 Geological Survey Map is shown in **Figure 3**.

However, based on the site-specific GI, the site is underlain by a stratigraphic sequence of fill and saprolite of granite.

3.3 Man-made Features

There is only one registered geotechnical feature located in the vicinity of the subject site and the general information is summarized below:-



Table 1: Summary of Existing Registered Man-made Feature

Feature No.	Type of Feature	Dimension (Length x Max. Height)	Average Angle (Degree)	Maintenance
11SW-B/C659 (BD 3/3053/96)	Soil Slope	80m x 7.9m	32°	IL 9041 (SCAA)

The slope basic information extracted from Geotechnical Engineering Office (hereinafter refer as GEO) is presented in **Appendix B**.

Feature 11SW-B/C659 is located immediately to the south of the proposed development. The feature was modified in September 2002 in conjunction with the demolition of the north stand and associated retaining walls. Based on the available information, the existing slope possessed a FOS of 1.41.

Apart from the registered man-made feature, there are unregistered temporary retaining wall and cut slope located to the west and south of the proposed site area. The general information of the temporary geotechnical feature within the subject site is summarized below:

Table 2 : Summary of Existing Temporary Feature / Retaining Structures

Feature	Type of Feature	Dimension (Length x Max. Height)	Average Angle
Temporary Slope	Soil cut slope with 4 rows soil nails at 2m c/c	27m x 11.5m	65°
Temporary Bored Pile Wall	2m Dia. Bored pile wall at 4m c/c with 4 levels of ground anchor tie back and precautionary raking struts	98m x 17m	90°
Solider Pile Wall (Southern end)	305x305x158kg/m UC at 800mm c/c with 3 layers of tie bars	16m x 11.5m	90°
Solider Pile Wall (Western corner)	305x305x158kg/m UC at 800mm &1000mm c/c with 4 layers of strut	23m x 17m	90°



Temporary Cut Slope (BD Ref.: BD 3/3053/96)

The Temporary Cut Slope with 4 rows of soil nails is located to the south of the proposed development. The feature comprises an average angle of 65° cut slope with 4 layers of 10m to 12m long soil nail. Based on the available information, the existing slope possessed a min. FOS of 1.21.

Temporary Bored Pile Wall (BD Ref.: BD 3&6/3053/96)

The temporary Bored Pile Wall is located along the western bound of the proposed development, which was constructed in 1998. The temporary retaining wall comprises 25 numbers of Bored Piles of 2.0m diameter at 4.0m c/c with 4 levels of ground anchor of length varies from 26 to 31.5m. The Bored Pile Wall is 98m long align in parallel with the long side of the football pitch and founded at -7mPD. The retaining height of the pile wall varies from 17m at the northern and central portions to 11.5m at the southern end portion. Regular monitoring was carried out to the ground anchors.

In addition, precautionary works in the form of providing raking strutting system against the face of the bored pile wall were constructed in December 2013 under BD ref. 3/2053/96.

Temporary Soldier Pile Wall (BD Ref.: BD 3/3053/96)

The temporary Soldier Pile Walls constructed as part of the temporary ELS works for the development of north site in late 90s are located to the west and south of the proposed development. The pile walls are located at the corner of the football pitch with L"-Shaped on plan. The Solider Pile Walls are about 16m long at the southern end of the site and 23m long at the western corner of the site. Tie bars and struts were installed to the pile wall to provide lateral resistance.

Extracts of the latest site formation and ELS plans and associated man-made features are shown in **Appendix C** for reference.

3.4 Existing Foundation

Raft footing foundation was constructed at the proposed site location in early 2000s for the north site development. The founding level of the footing was +4.5mPD with the allowable bearing capacity of 350kPa.

3.5 Recorded Landslide Incident

No landslide incident within the vicinity of the site could be located at the GEO.



3.6 Existing Ground Investigation Information

Site-specific ground investigation works were carried out for the proposed redevelopment of the north stand, which are summarized as follows:

Table 3: Summary of Available GI information

Project Title	Investigation Period	Details of Investigation in Vicinity of the Site
Re-Development of South China Athletic Association – Phase 1	September 1996	8 Drillholes (BH1 to BH7, BH3A)
Proposed Redevelopment of South China Athletic Association – Phase 1 (Additional Work)	June 1999	3 Drillholes (BHA1-BHA3)
Proposed Staircase ST-E5 at South China Athletic Association	June 2017	2 Drillholes (VH1 &VH2)
Proposed A & A Works to Steel Golf Fence at South China Athletic Association	November 2024	2 Drillholes (DHF1 & DHF2)

The drillhole logs indicated that the superficial geology is mainly composed of completely decomposed Granite. No adverse geotechnical feature was recorded from the existing drillhole records. The geological information obtained from the drillhole logs is consistent with that inferred in the Geological Map.

The site layout plan showing the existing drillholes within and in the vicinity of the sites are presented in **Figure 2**. The existing GI records relevant to the proposed Sites are given in **Appendix D**.

4. GEOTECHNIAL ASSESSMENT

4.1 Site Formation Works

For the existing slopes affecting/ being affected by the proposed development, stability of the slopes will be assessed to cater for the change of ground profiles and any service loading. Stabilization measures to the slopes will be provided, if necessary. Based on the proposed development layout, the existing temporary soil nailed slope shall be modified to a permanent registerable man-made feature up to current required safety standard to suit the proposed development. The slope could be modified with a L-shape retaining toe wall and no-fines concrete backfill slope at the crest, in order to maintain the required level difference for the pedestrian passage to the south-eastern entrance of the proposed building. The proposed L-shape retaining wall will be connected to the south-eastern end of the building screen wall.



Provision of top soil with erosion control mat on the concrete backfill slope could be utilized for landscaping purpose.

The existing registered slope 11SW-B/C659 with average gradient of 32° located to the south of proposed development is unlikely to be affected by the proposed development. Extracts of the slope stability with a min. of FOS of 1.4 under previous site formation design report approved by BD Ref no. 3/3053/96 in May 2000 is attached for reference. Nevertheless, the effect of the proposed development to adjacent man-made features including 11SW-B/C659 shall be reviewed in the detailed design stage. The effect of the Schematic site formation works associated with the development is presented in **Figure 3**.

Based on a review of the desk study information, assessment of the stability condition of existing man-made features and/or upgrading works are considered required:-

Table 4: Summary of Recommendation of Proposed Works for Features within Development

Feature	Location	Existing CTL	Proposed Works
Temporary soil nailed slope	South of proposed complex	-	Feature to be modified and registered

Table 5: Summary of Existing Feature outside the Development

Feature	Location	Existing CTL	Proposed Works
11SW-B/C659	South of proposed complex	2	Slope with average gradient of 32° with FoS= 1.4 min. will be retained and no site formation works required.

4.2 ELS Works

As discussed in Section 3.3 above, there are temporary ELS works at the west bound of the proposed development. The ELS work is supporting the existing football field at +21.5mPD. It is expected that the existing temporary ELS works including the anchored bored pile wall and soldier pile wall shall be replaced by permanent building screen wall or retaining structures under the proposed development. The temporary anchors and steel waling/strut shall be destressed and dismantled in a safety manner respectively. The existing bored pile wall will be abandoned after erection of the building.

Table 6: Summary of Recommendation of Proposed ELS Works within Development

Feature	Location	Proposed Works
Bored pile wall (Temp. ELS)	Along western boundary of the site	Feature to be removed with erection of building screen wall and retaining structures, and destressing of anchors and dismantling of raking strut.
Soldier pile wall (Temp. ELS)	At southern portion and north-western corner of the site	Feature to be removed with erection of building screen wall and retaining structures, and dismantling of strut/waling.



The temporary ELS works shall be reviewed or modified to fulfill the stability requirements with due consideration of the staged construction of the foundation and building works.

4.3 Potential Natural Terrain Hazards

The development is situated at the build-up area and does not meet the alert criteria for carrying out a natural terrain hazard study (NTHS).

5. CONCLUSIONS AND RECOMMENDATONS

- A temporary soil nailed slope is located at the southern boundary of the development. The feature will be modified/upgraded to current safety standard under this development and registered after completion of the works.
- Existing feature 11SW-B/C659 is located to the south and adjoining the temporary slope. It is unlikely that the feature will be affected by the proposed development. Nevertheless, the effect of the proposed development to adjacent man-made features including 11SW-B/C659 shall be reviewed in the detailed design stage.
- The existing temporary ELS works including the anchored bored pile wall and soldier pile wall shall be replaced by permanent building screen wall or retaining structures under the proposed development. The temporary anchors and steel waling/strut shall be destressed and dismantled in a safety manner respectively. The existing bored pile wall will be abandoned after erection of the building.
- The development is situated at the build-up area and does not meet the alert criteria for natural terrain screening based on GEO Report No. 138 (2nd Edition). Therefore, NTH Study is not required.
- Based on the above discussions, it can be concluded that the construction of the proposed development is geotechnically feasible.



6. REFERENCES

- 1. Geotechnical Control Office (2012). "Solid and Superficial Geology. Hong Kong Geological Survey HGM20, Edition 2, Sheet No. 11, 1:20,000 scale". Government Press, Hong Kong.
- 2. Geotechnical Control Office (1987). "Geotechnical Area Study for Hong Kong Island and Kowloon. GASP Report I". Geotechnical Engineering Office, Hong Kong.



Plates

		LOCATION	
PROPOSED DEVELOPMENT FOR SCAA		No. 88 CAROLINE HILL ROAD, HONG KONG	
REF.	NEGATIVE NO.	TAKEN IN	
190171	-	October 2018	SHEET 1 OF 2



Plate 1: Top View of the Site



Plate 2: General View of the Site

DEVELOPMENT OF NORTH STAND SOUTH CHINA ATHLETIC ASSOCIATION AT 88 CAROLINE HILL ROAD

FUGRO (HONG KONG) LIMITED

PROPOSED DEVELOPMENT FOR SCAA		No. 88 CAROLINE HILL ROAD, HONG KONG	
REF. 190171	NEGATIVE NO.	TAKEN IN October 2018	SHEET 2 OF 2



Plate 3: General View of the Southern End of the Site and the Existing Slope 11SW-B/C659

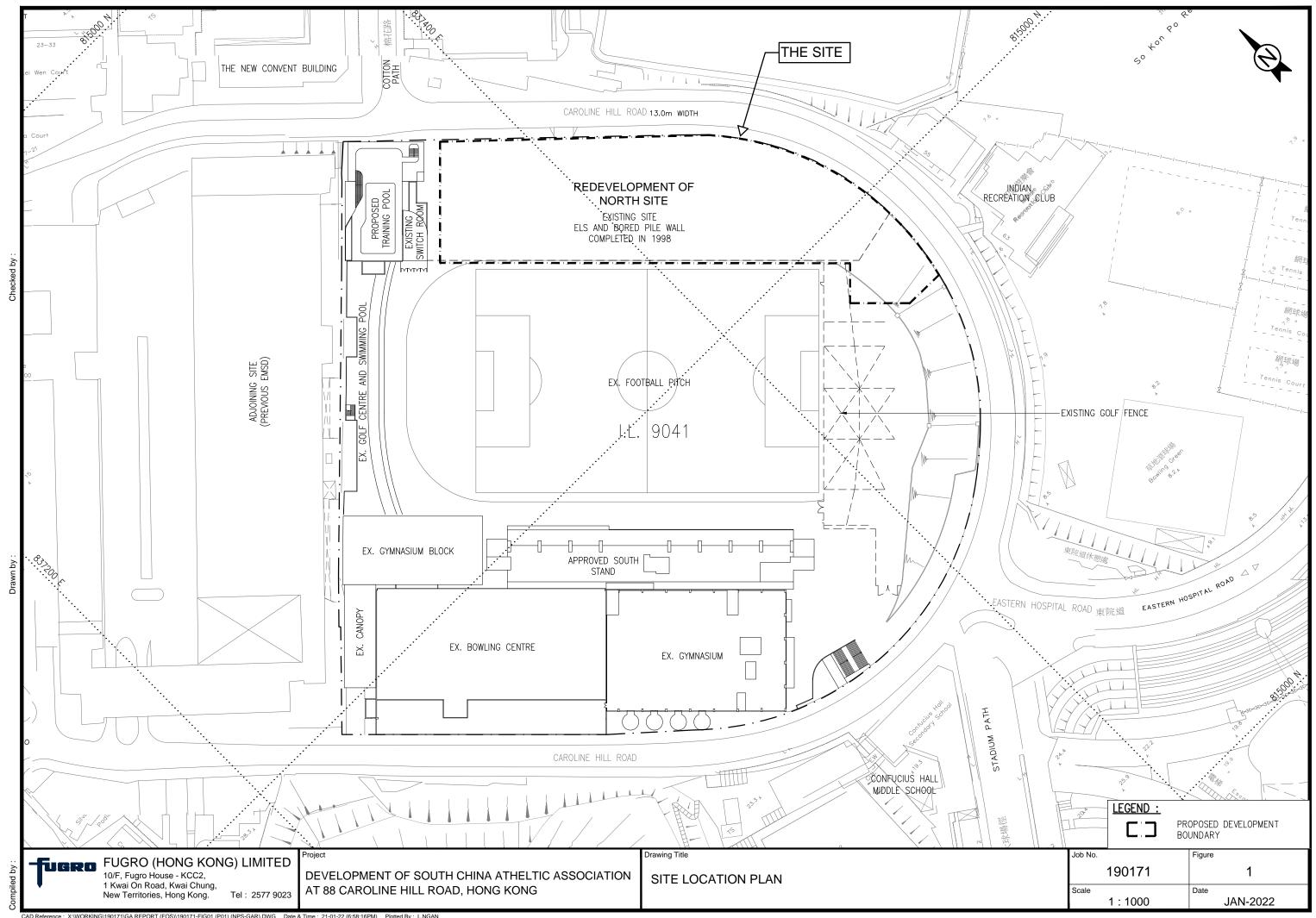


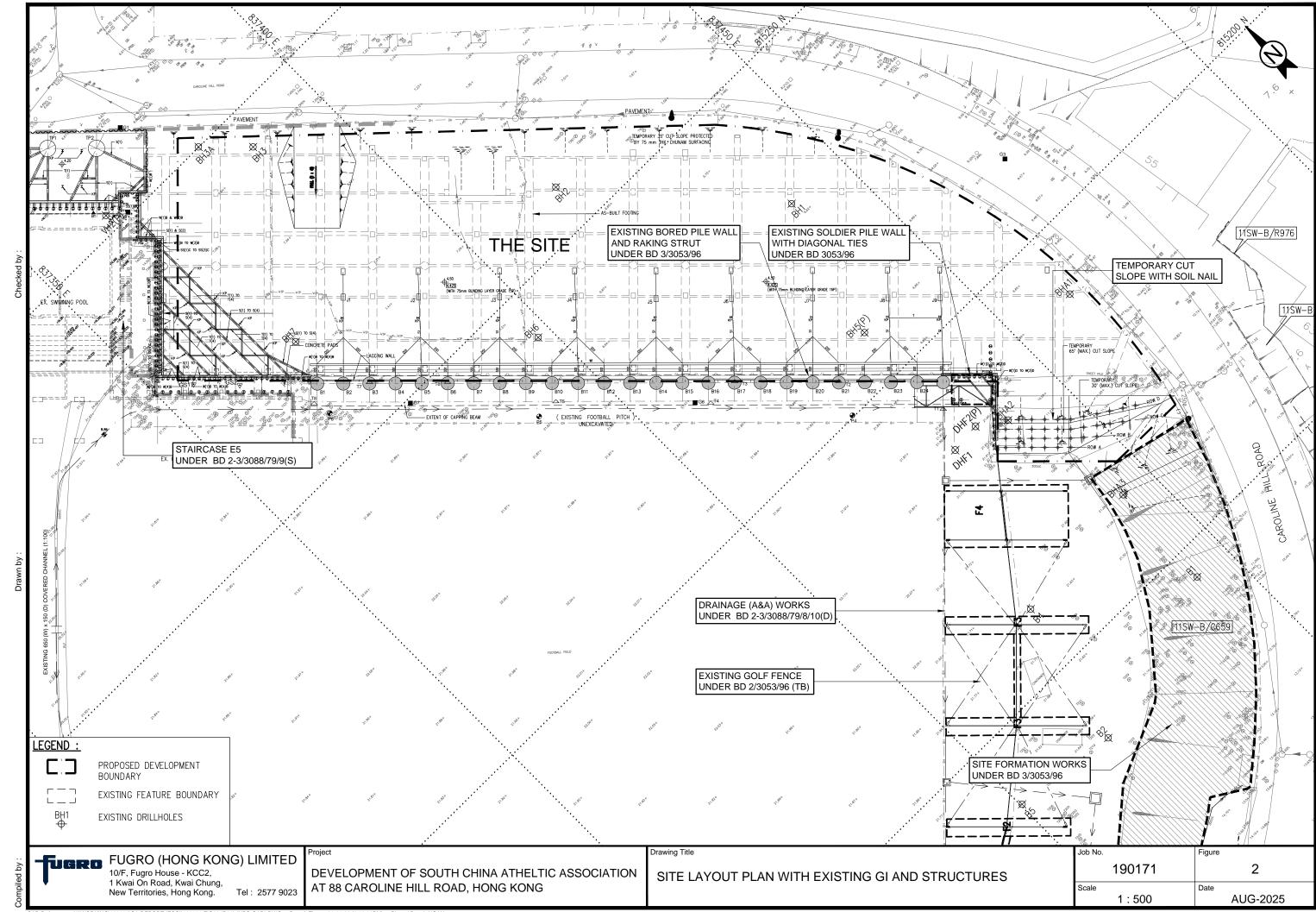
Plate 4: General View of the Bored Pile Wall

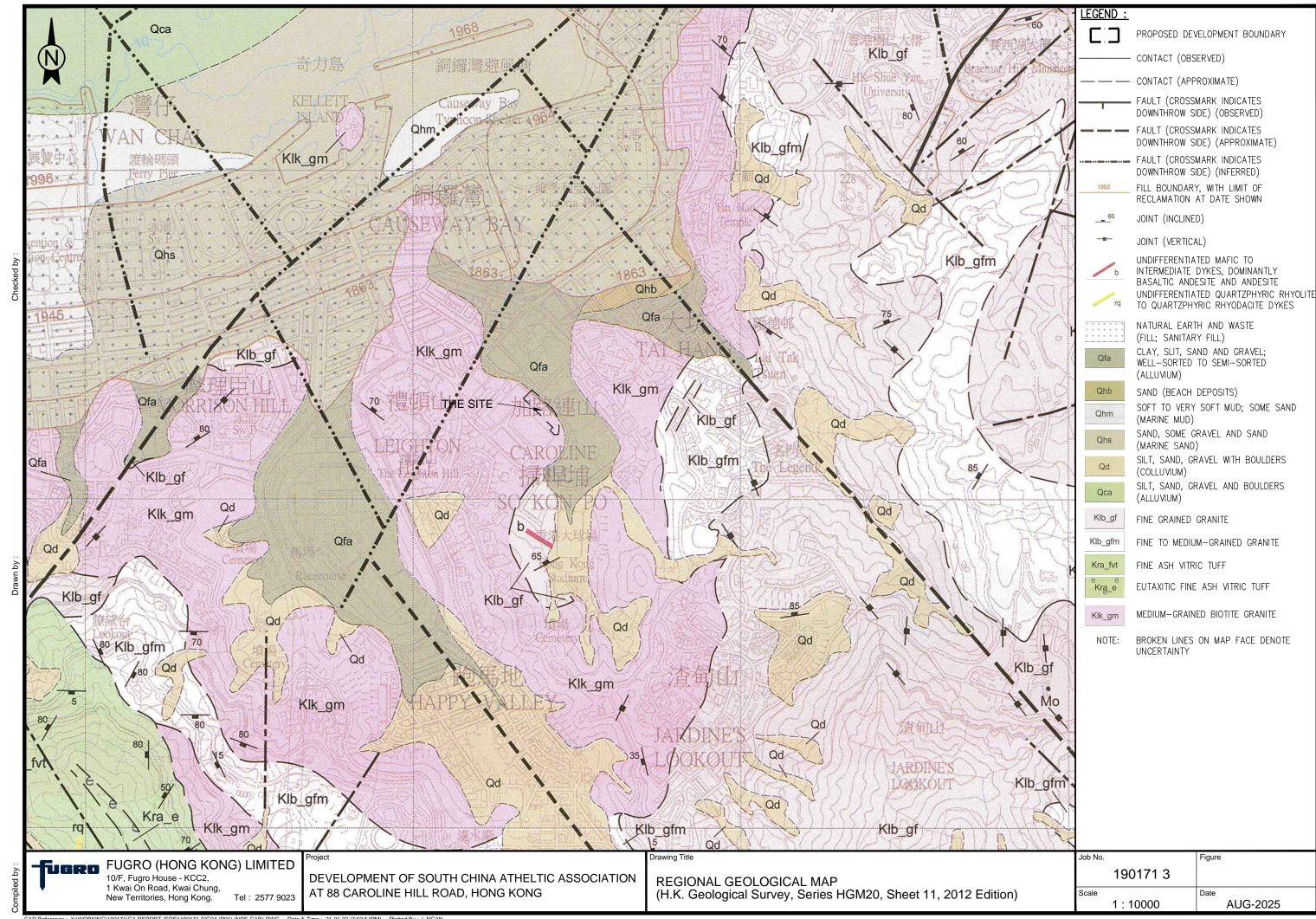
DEVELOPMENT OF NORTH STAND SOUTH CHINA ATHLETIC ASSOCIATION AT 88 CAROLINE HILL ROAD

FUGRO (HONG KONG) LIMITED

Figures



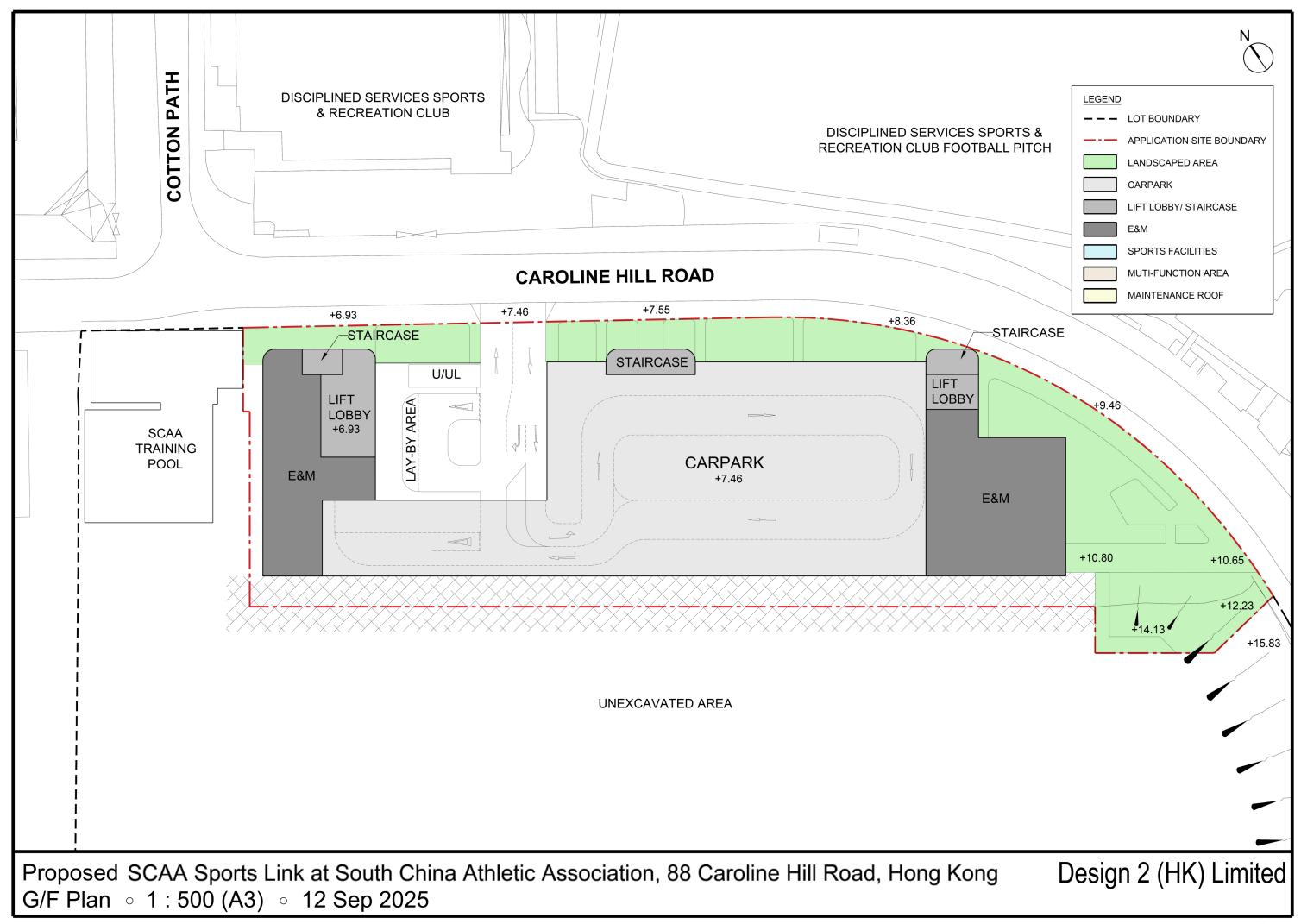


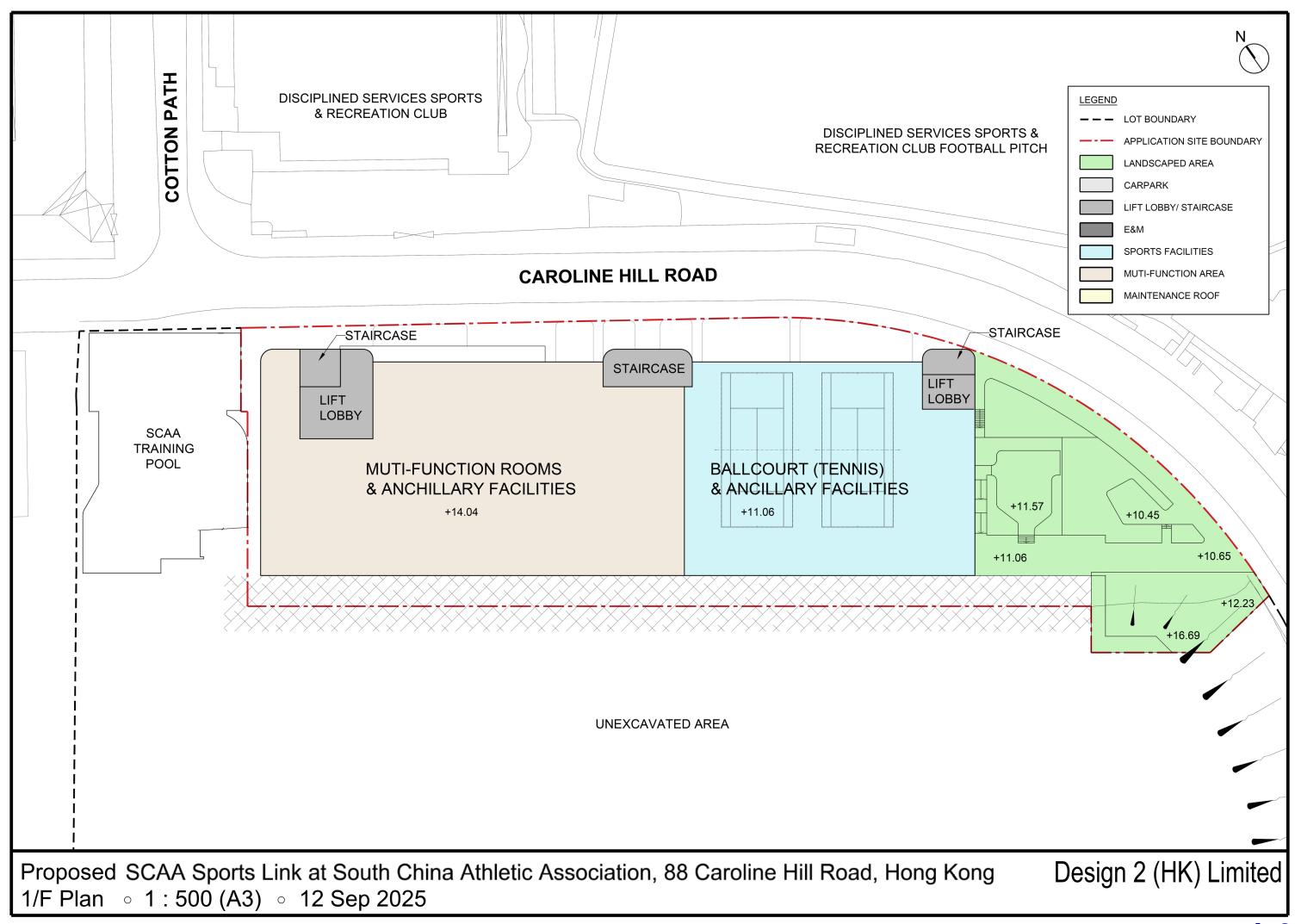


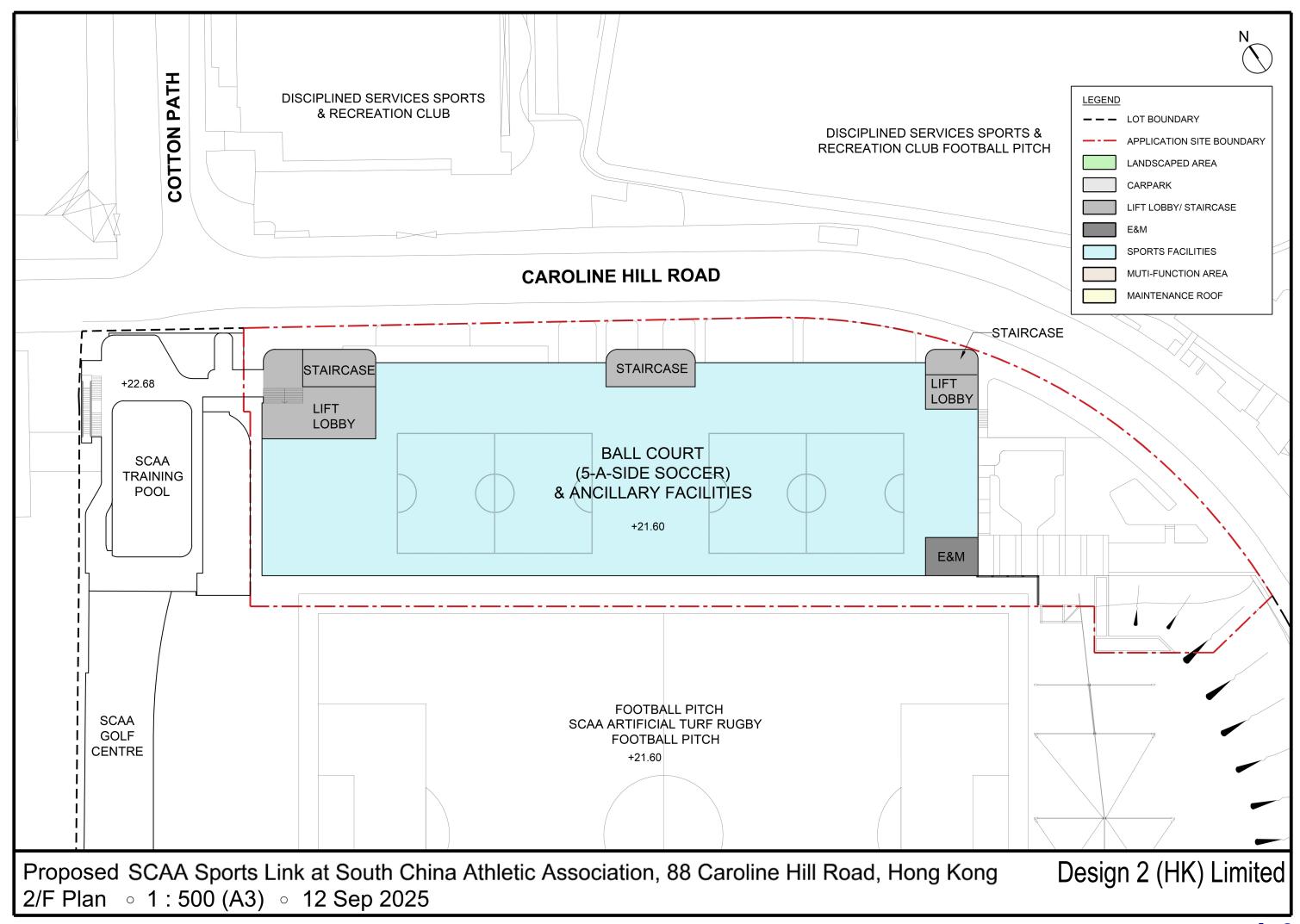
Appendix A

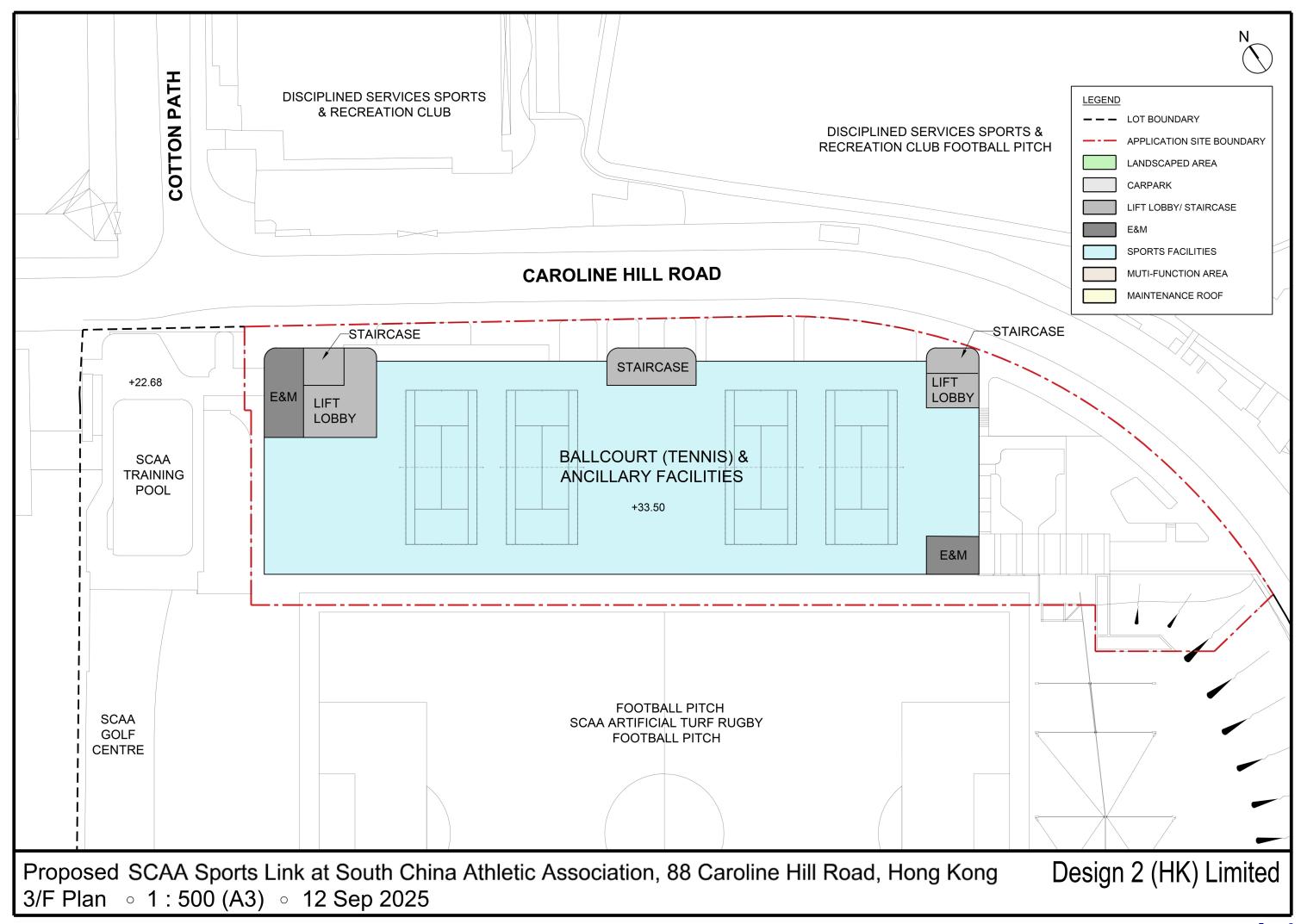
Proposed Development Layout

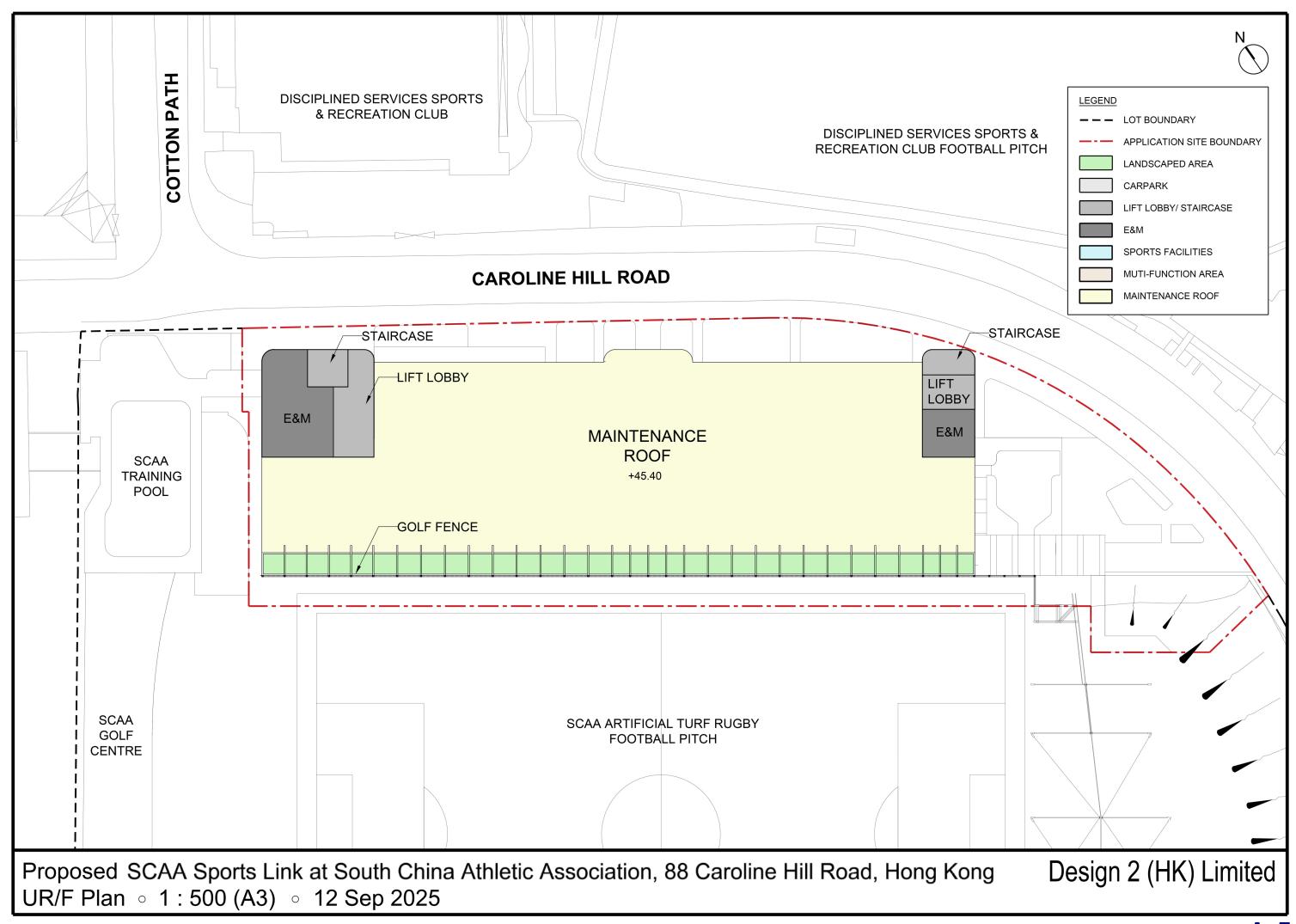


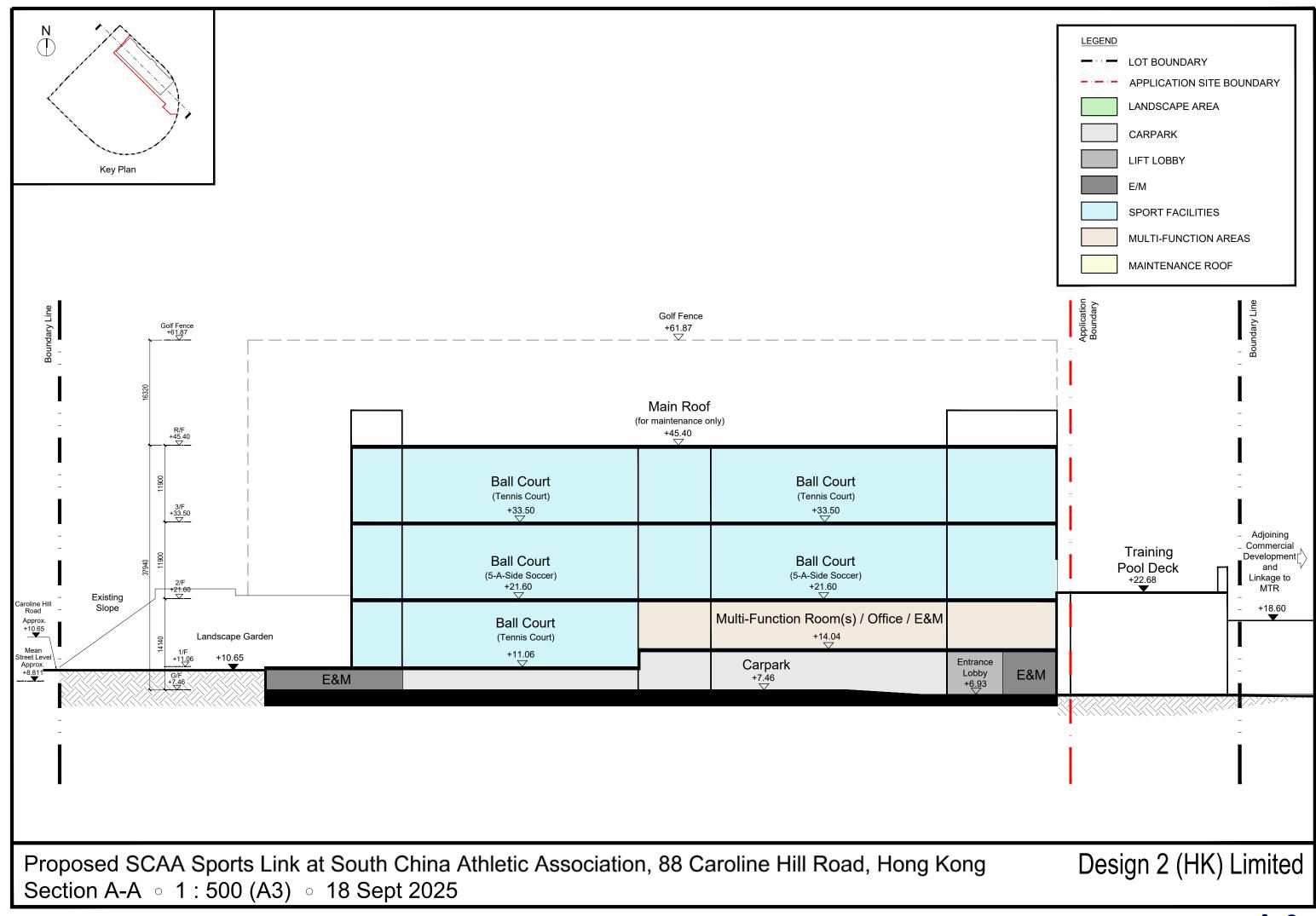






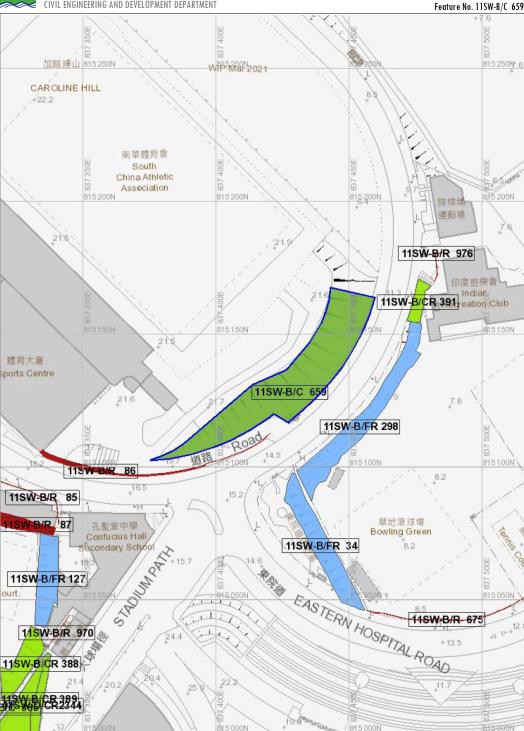






Appendix B SIS Record

TUGRO







BASIC INFORMATION

Location: 88 Caroline Road, Causeway Bay, H.K.

Date of Formation:

Date of Construction/ 02-09-2002

Modification:

Approximate Coordinates:

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Densely-used open area/facilities

Easting: 837439 Northing: 815140

Distance of Facility from Crest (m):

Facility at Toe: Road/footpath with moderate traffic density

Distance of Facility from Toe (m): 3 Consequence-to-life Category: Remarks: N/A

SLOPE PART

Max. Height (m): 7.9 Length (m): 80 Average Angle (deg): 32

WALL PART

N/A

Feature No. 11SW-B/C 659

MAINTENANCE RESPONSIBILITY

Private Feature Party: IL 9041 Agent: N/A

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 23-07-2019

Data Source: AP

Slope Part Drainage: (1) Position: Crest Size(mm): 300

(2) Position: On slope Size(mm): 300

(3) Position: Toe Size(mm): 300

Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)

Surface Protection (%): Bare: O Vegetated: 100 Chunam: O Shotcrete: O Other Cover: O

Material Description: Material type: Soil Geology: N/A

Berm: No. of Berms: N/A Min. Berm Width (m): N/A

Weepholes: Size (mm): N/A Spacing (m): N/A

SLOPE INFORMATION SYSTEM

GEOTECHNICAL ENGINEERING OFFICE

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT OF THE PROPERTY OF T

Feature No. 11SW-B/C 659

WALL PART

N/A

SERVICES

N/A

STAGE 1 STUDY REPORT

Inspected On: Weather:

District: N/A

Section No: 1-1

Height(m):

Type of Toe Facility: Road/footpath with moderate traffic density

Distance from Toe(m): 3

Type of Crest Facility: Densely-used open area/facilities

Distance from Crest(m): 18

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:

SLOPE INFORMATION SYSTEM GEOTECHNICAL ENGINEERING OFFICE

Sign of Seepage:

Criterion A satisfied: Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

> Action By: N/A

Further Study:

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services:

Action By: N/A

Non-routine Maintenance:

Action By: N/A Feature No. 11SW-B/C 659

PHOTO PHOTO

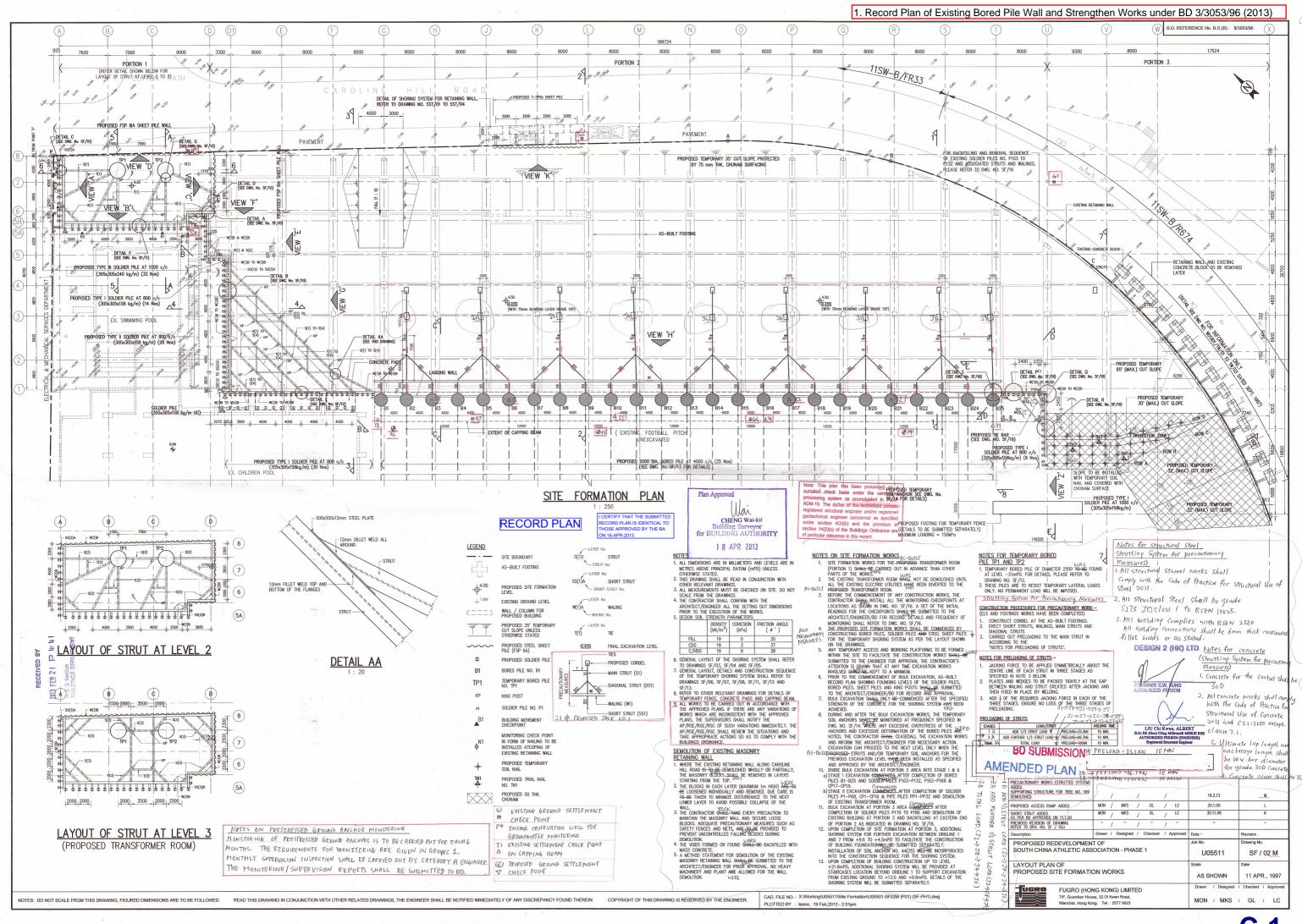


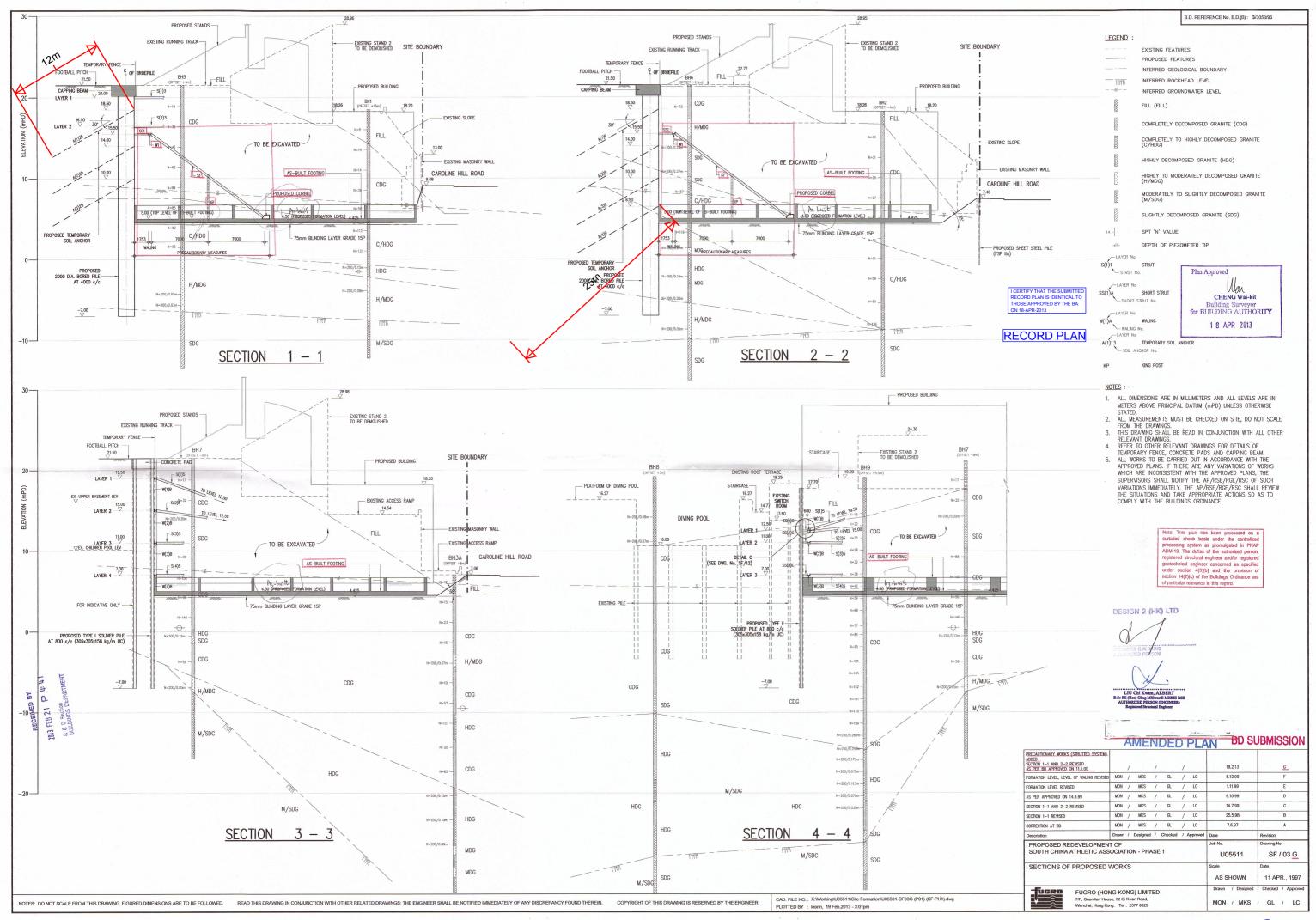


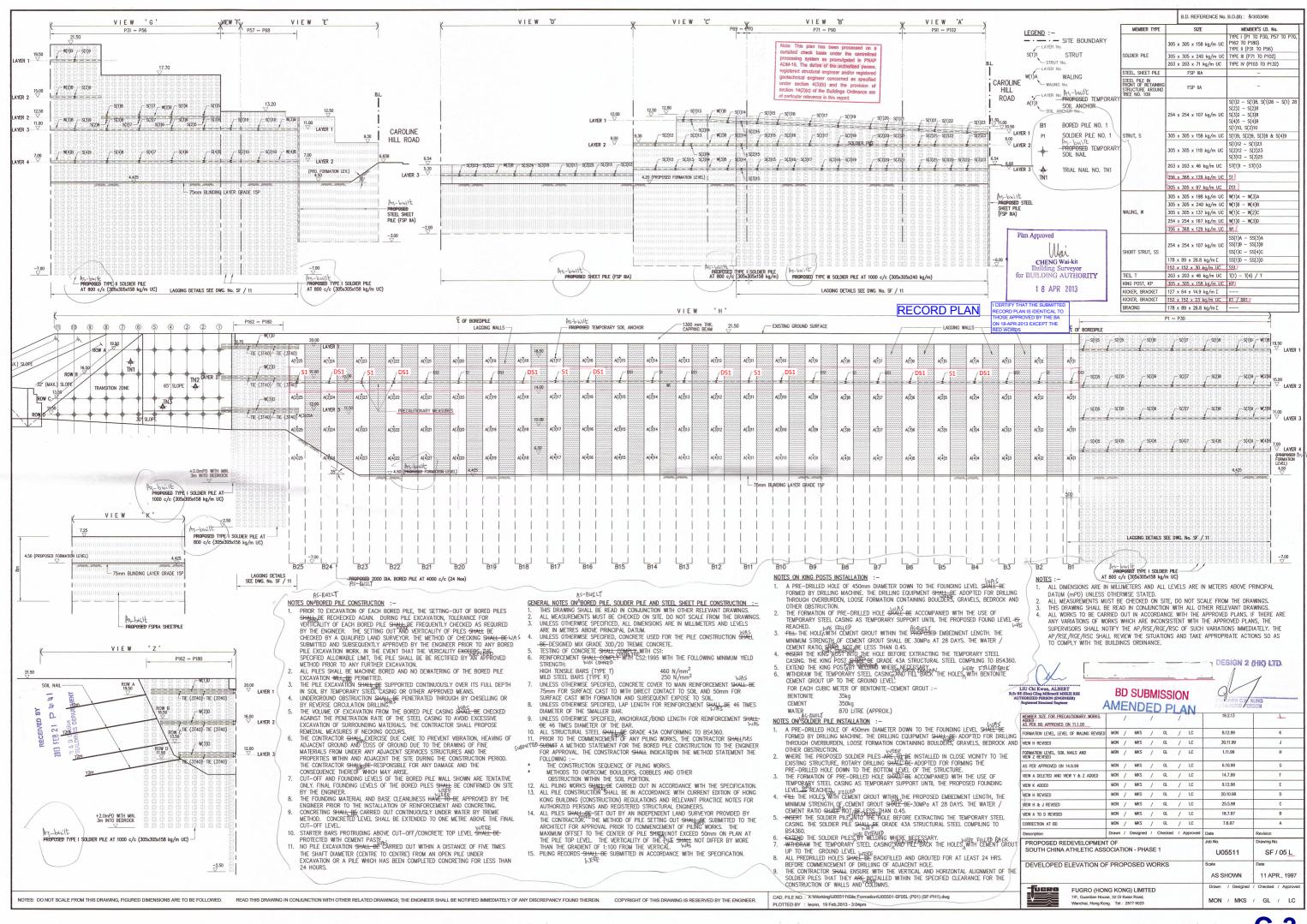
Appendix C

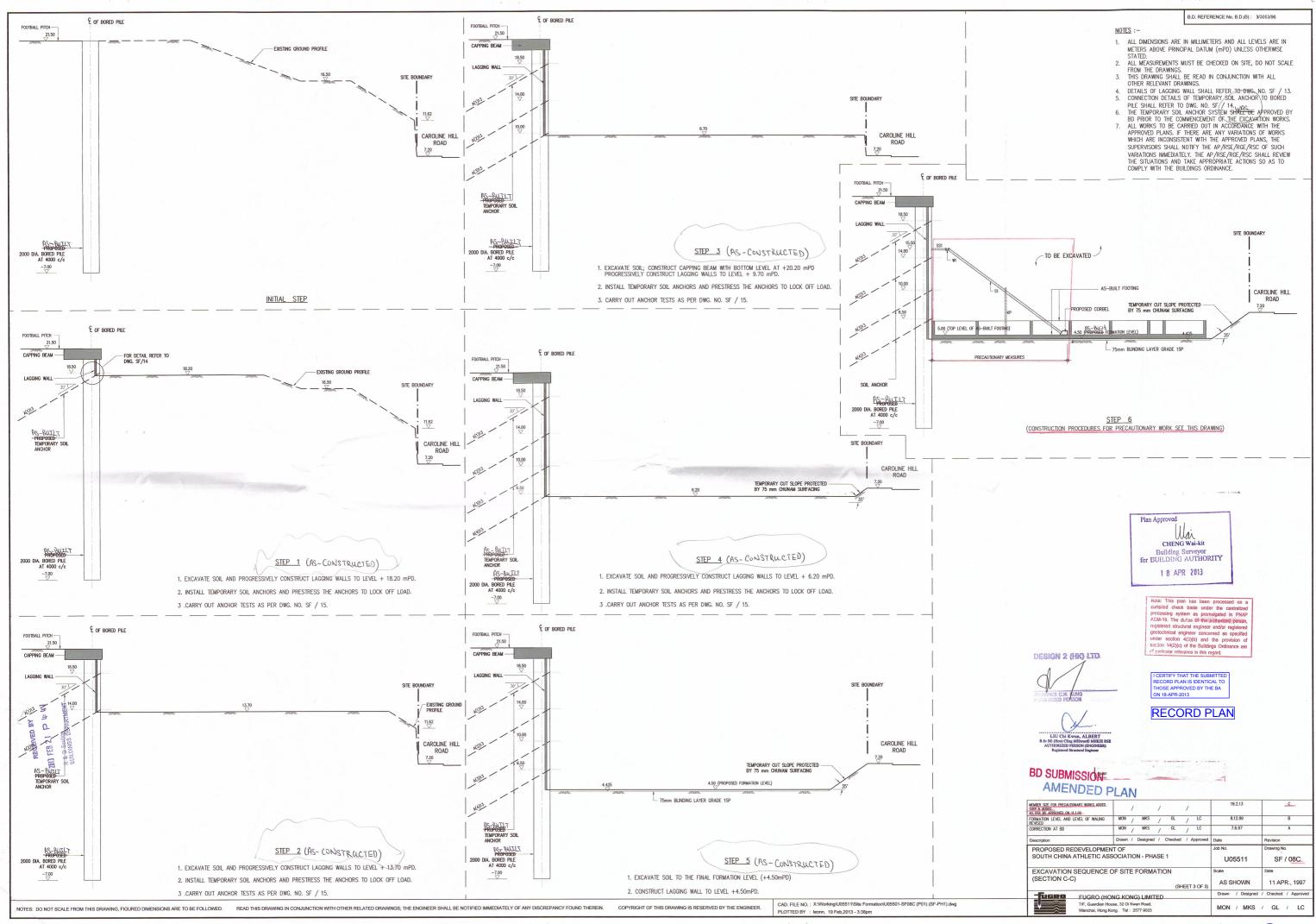
Relevant Site Formation Plans and Foundation Plans

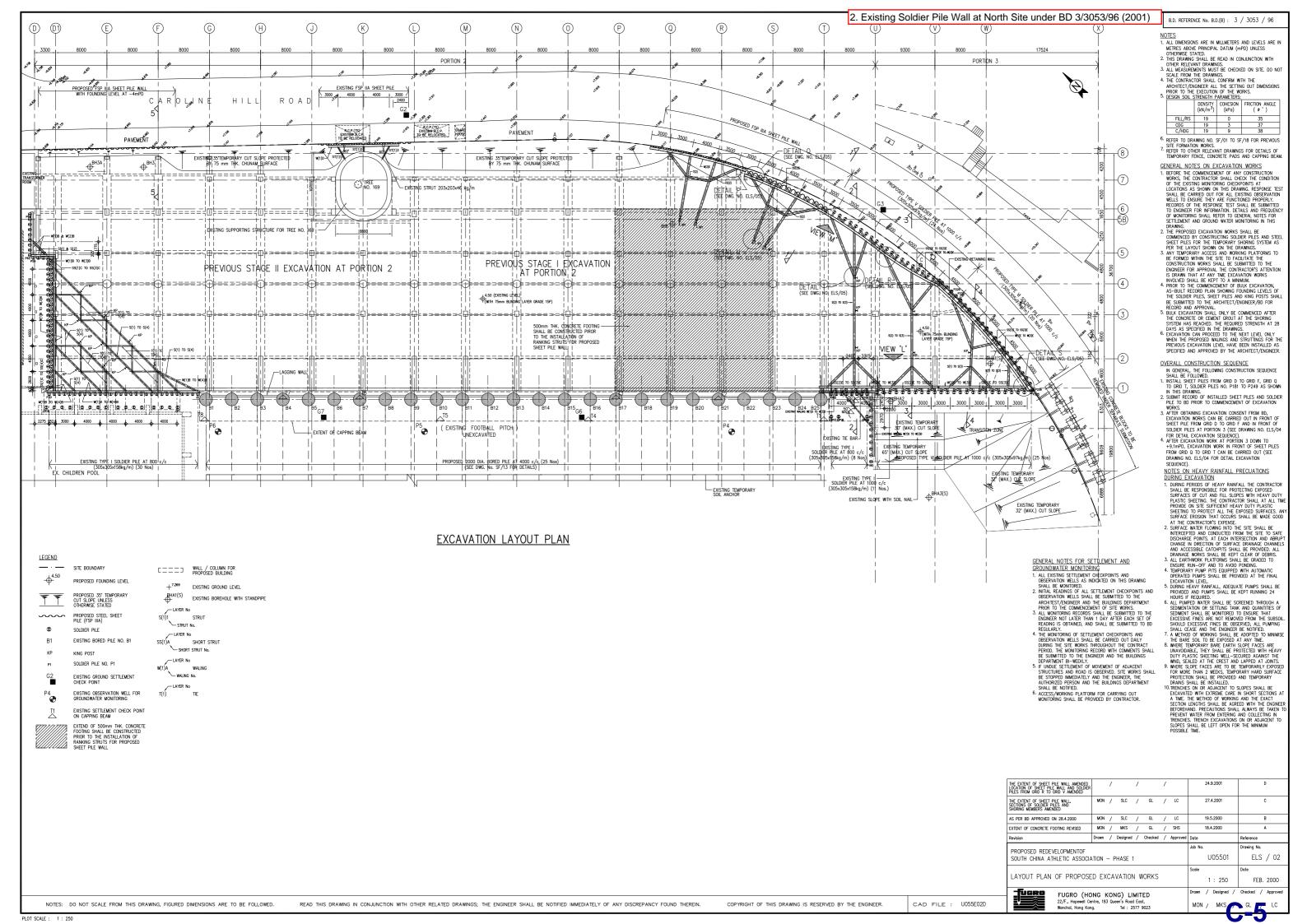


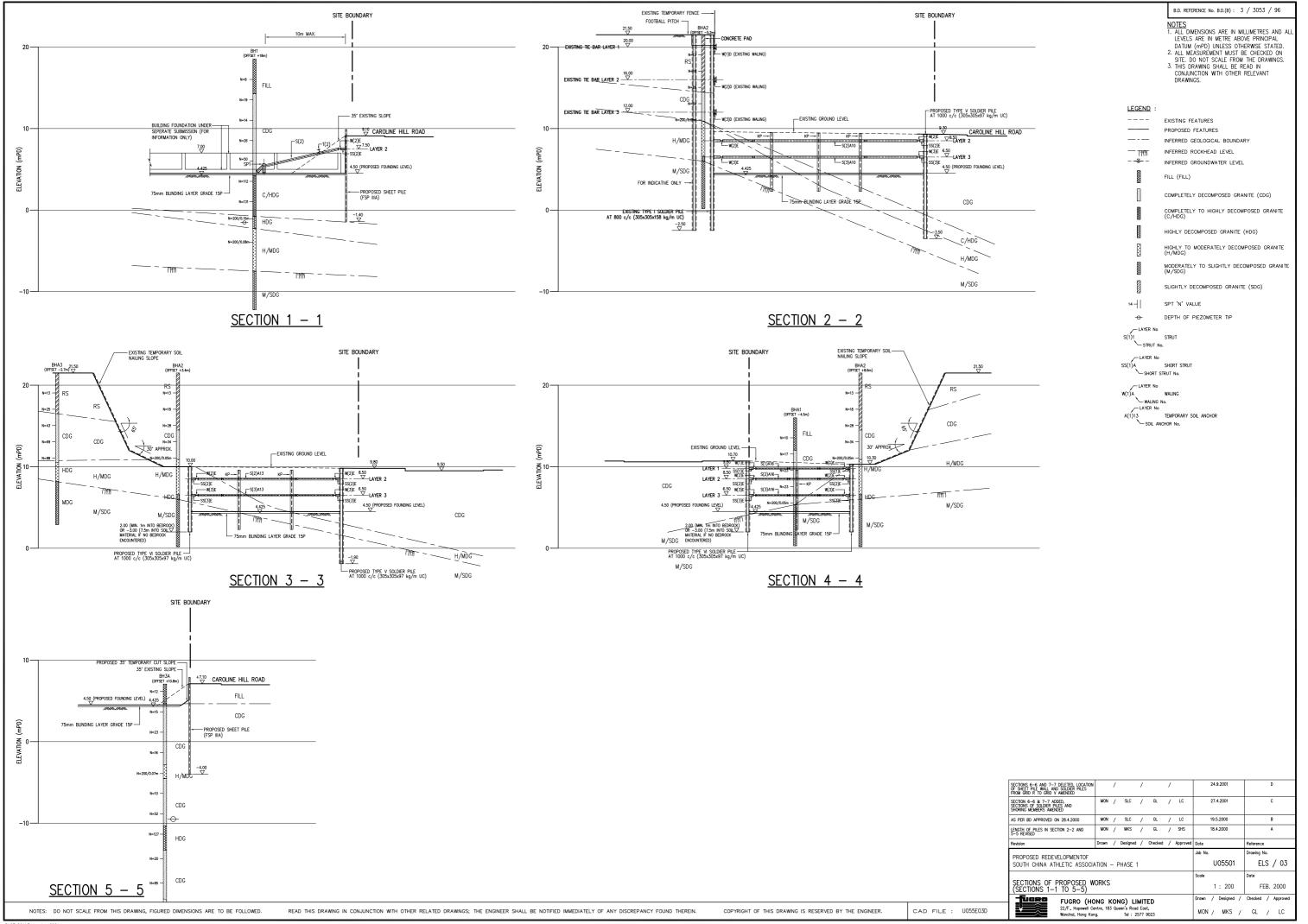




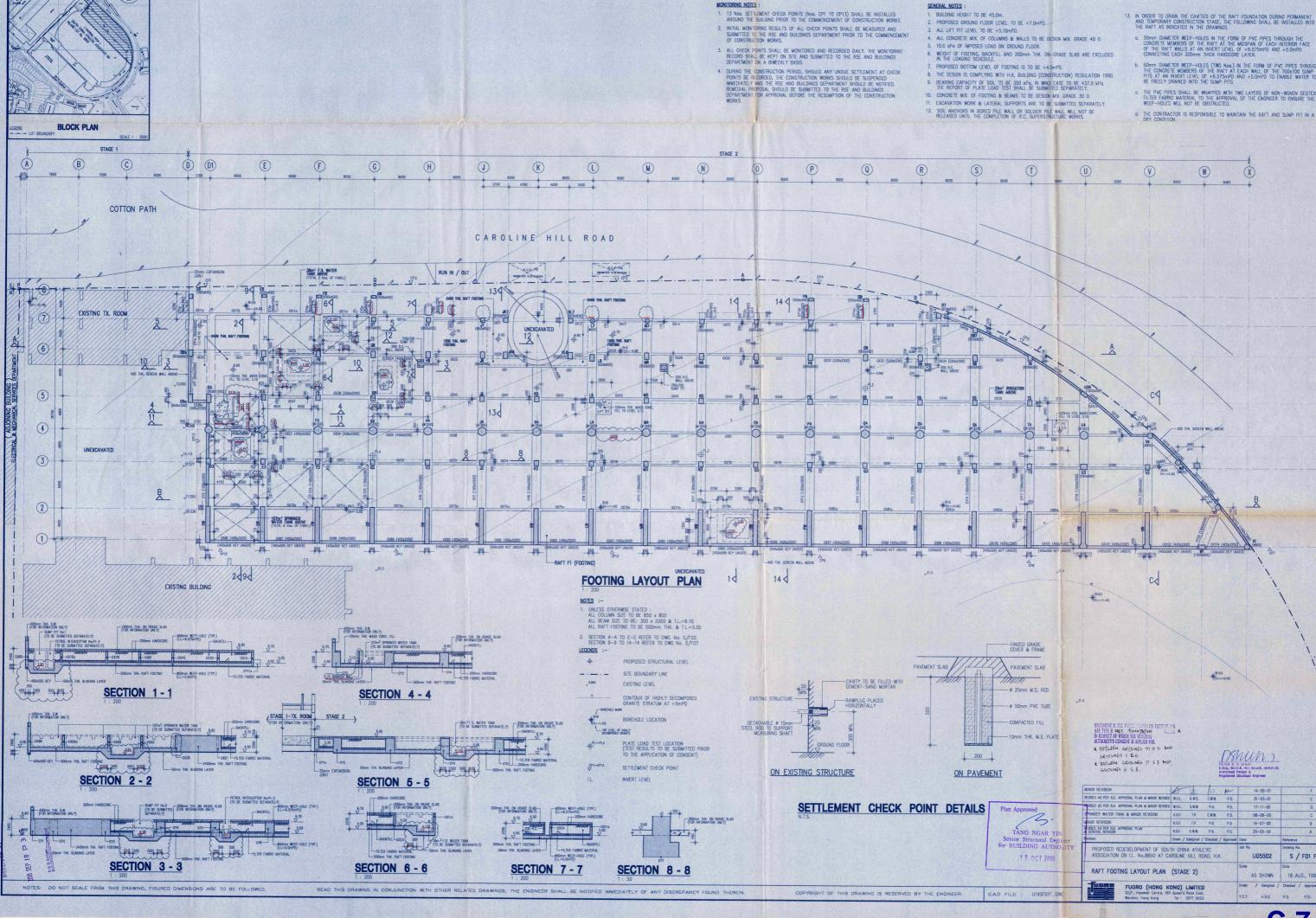


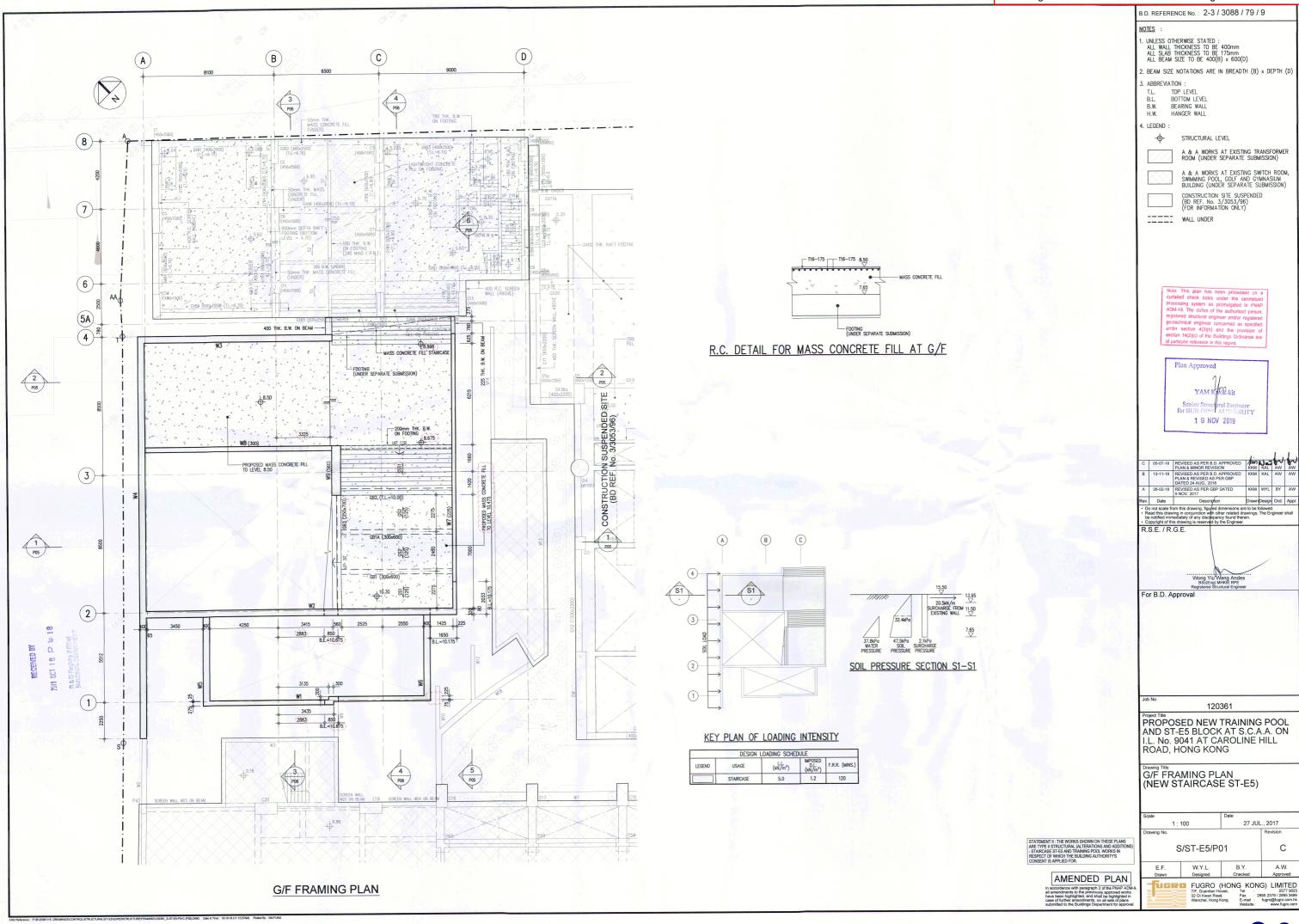


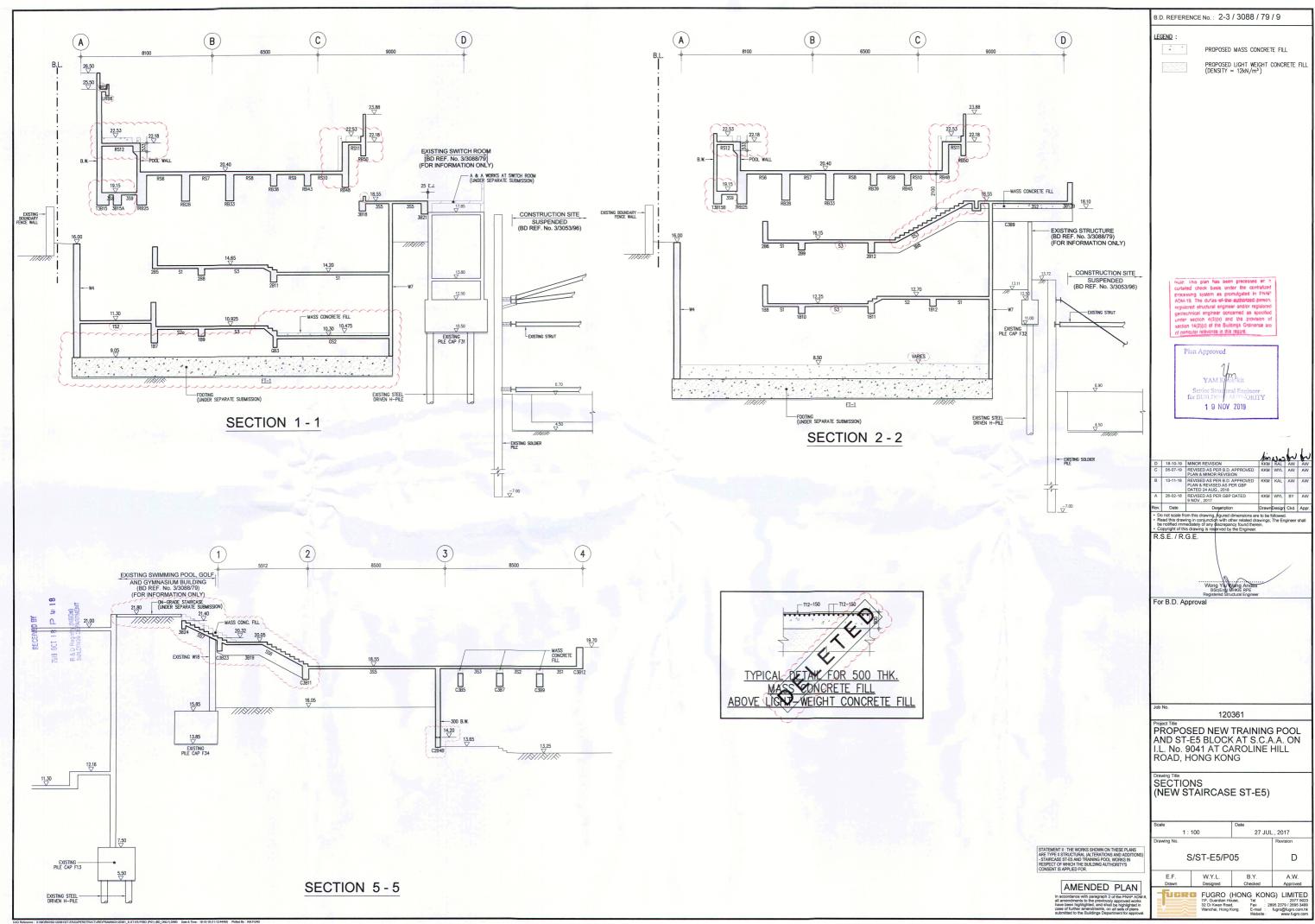


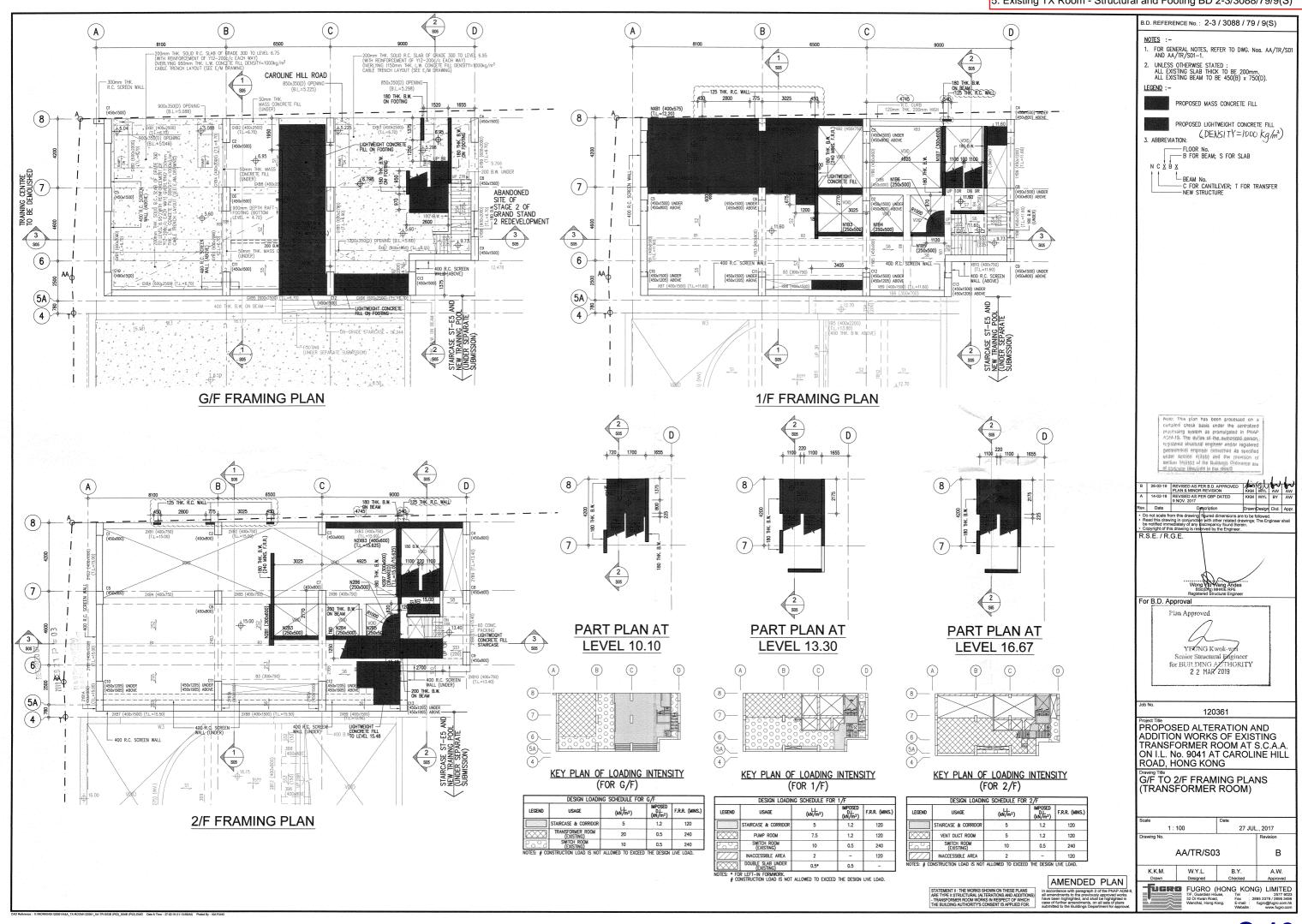


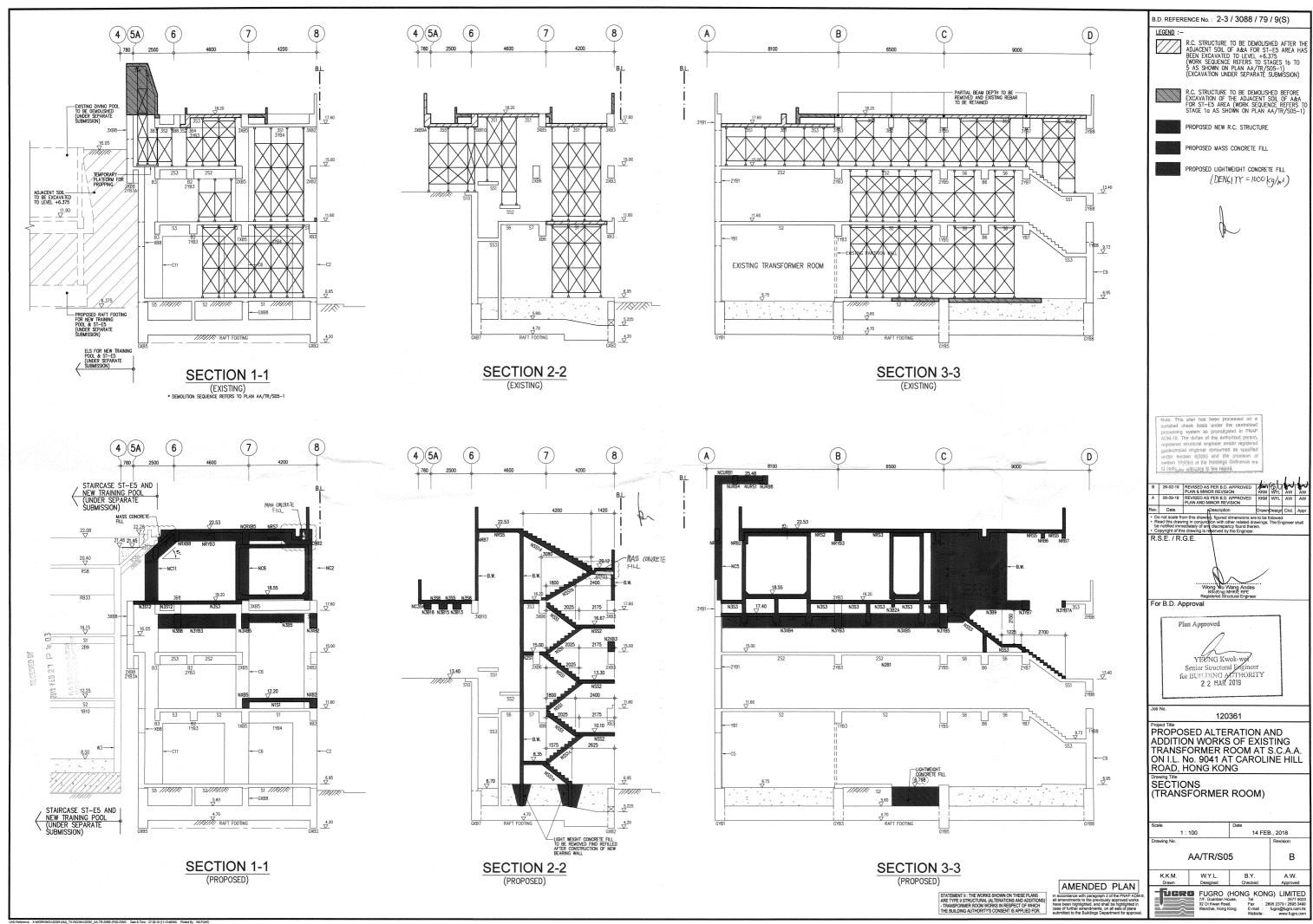
3A. Existing North Site - Footing BD 3/3053/96 Pt.II B.D. REFERENCE No. : 3 / 3053 / 96 Pt. I IN ORDER TO DRAIN THE CAMTIES OF THE RAFT FOUNDATION DURING PERMANENT AND TEMPORARY CONSTRUCTION STAGE, THE FOLLOWING SHALL BE INSTALLED INTO THE RAFT AS INDICATED IN THE DRAWINGS. THE PVC PIPES SHALL BE WRAPPED WITH TWO LAYERS OF NON-WOVEN GEOTEXT FILTER FABRIC MATERIAL TO THE APPROVAL OF THE ENGINEER TO ENSURE THE WEEP-HOLES WILL NOT BE OBSTRUCTED. d. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE RAFT AND SUMP PIT IN A DRY CONDITION. (1) U * BETWEEN GROWIES DI 8 5 MAD GROWIES I 86 Mun 21-03-01 THE VISED AS PER B.D. APPROVAL PLAN & MINOR REVISED W.H.L. C.W.W. P.S. P.S.
SPRINKER WATER TANK & MINOR REVISION K.S.F. T.P. C.W.W. P.S.











REDEVELOPMENT OF SOUTH CHINA ATHLETIC ASSOCIATION - PHASE 1 PROPOSED SITE FORMATION WORKS AT AREA 4

Fugro Ref No.: U05501.14

March 2000

Rev	Date	Purpose of Issue	Prepared	Checked
900 000	7-03-2000	Original Issue	Jus.	61
A				
В				

Should you have any queries on the contents of this report, please contact Mr Gary Luk at 2577 9023.



1 INTRODUCTION

In the Area 4 redevelopment of the South China Athletic Association site, it is intended to erect a permanent 40m high fencing for the golf court drive, and demolish the existing non-standard retaining structures for the development of a corridor and permanent fences along the site boundary at Area 4 as shown in sketch no. SK950201/133 and 134.

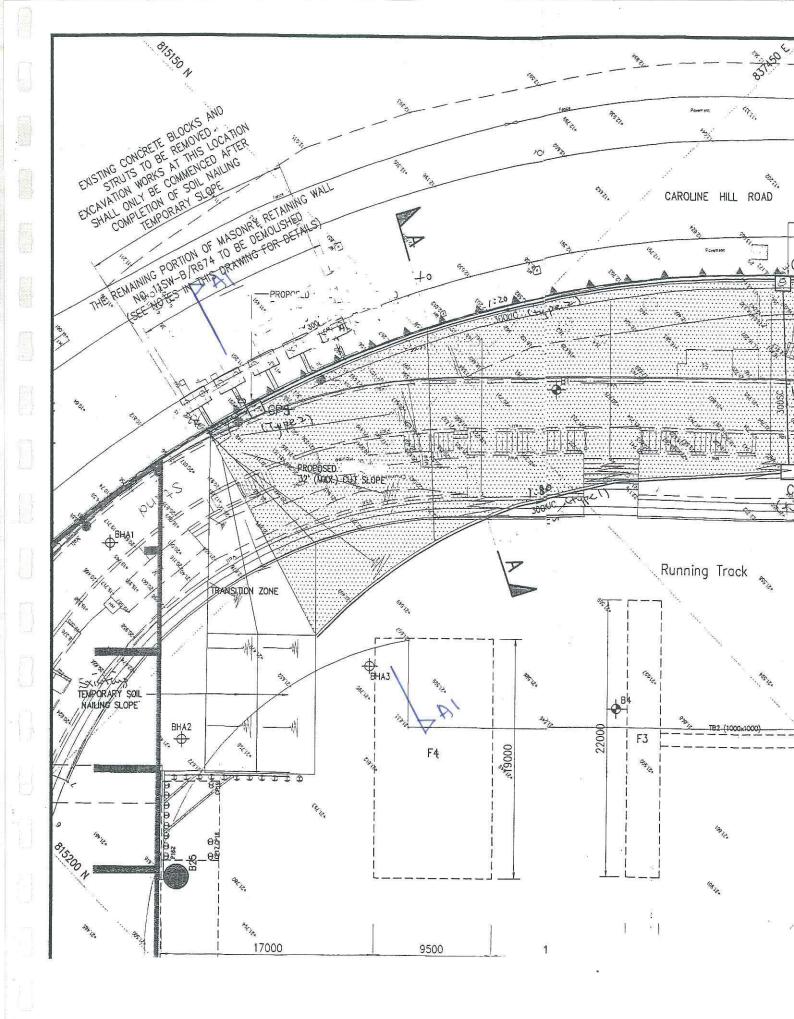
The site formation works for the redevelopment would comprise a cut slope formation below the Area 4, demolition of existing retaining structures during slope formation, upgrading of existing retaining structures next to the access ramp, and provision of a surface drainage system to the area. The layout of proposed site formation works is shown in the attached Drawing No. AS/01.

For the purpose to obtain additional geological information for design of site formation works at the Area 4, additional ground investigation works have been carried out to assess the subsurface ground conditions.

This geotechnical report covers the site formation for the Area 4. It presents the data obtained from the additional ground investigation field work and laboratory testing works, review the geotechnical parameters for design, design of the proposed cut slope and upgrading works for retaining structures. This report shall be read in conjunction with our previously submitted report Ref. U05501.13 for the adjoining portion 3 area.

2 GROUND INVESTIGATION AT EXTENDED AREA

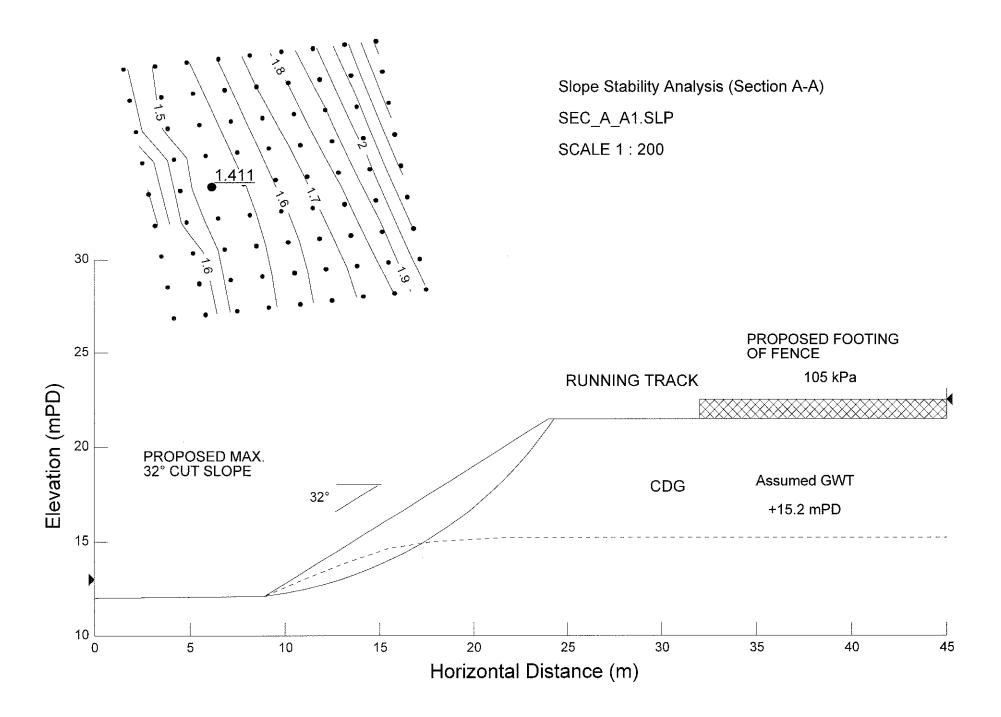
Ground investigation at the Area 4 area was carried out in October 1999 by Paul Y Construction and Engineering Co. Ltd. The investigation comprised 5 vertical boreholes (B1 to B5) and 4 coreholes (HC1 to HC4) through the existing masonry retaining wall. Records of ground investigation works are included in Appendix A.

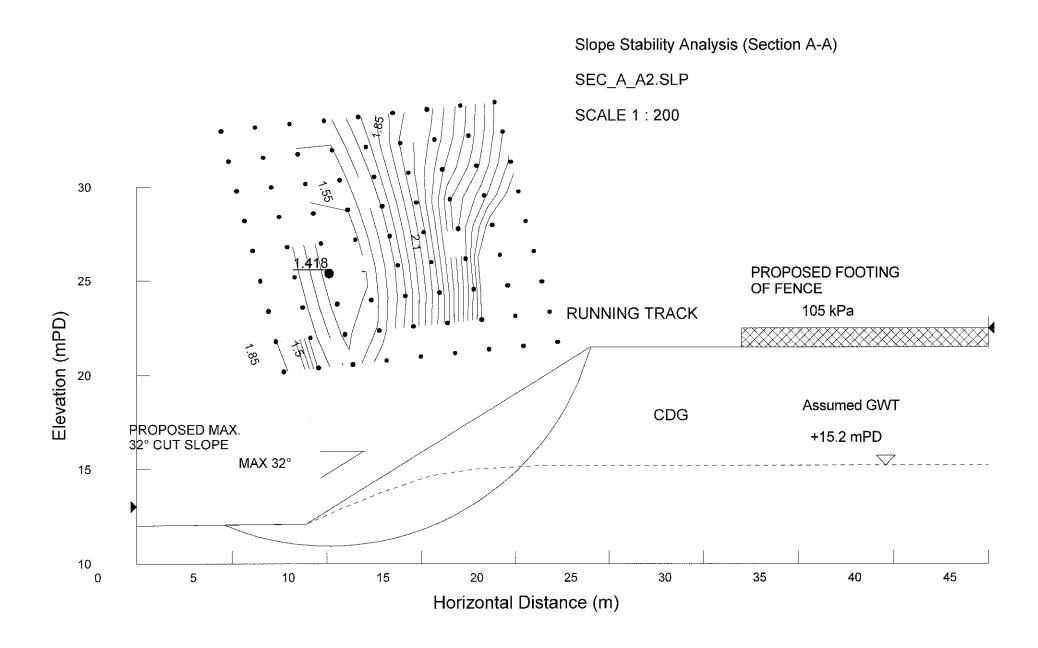


Appendix E

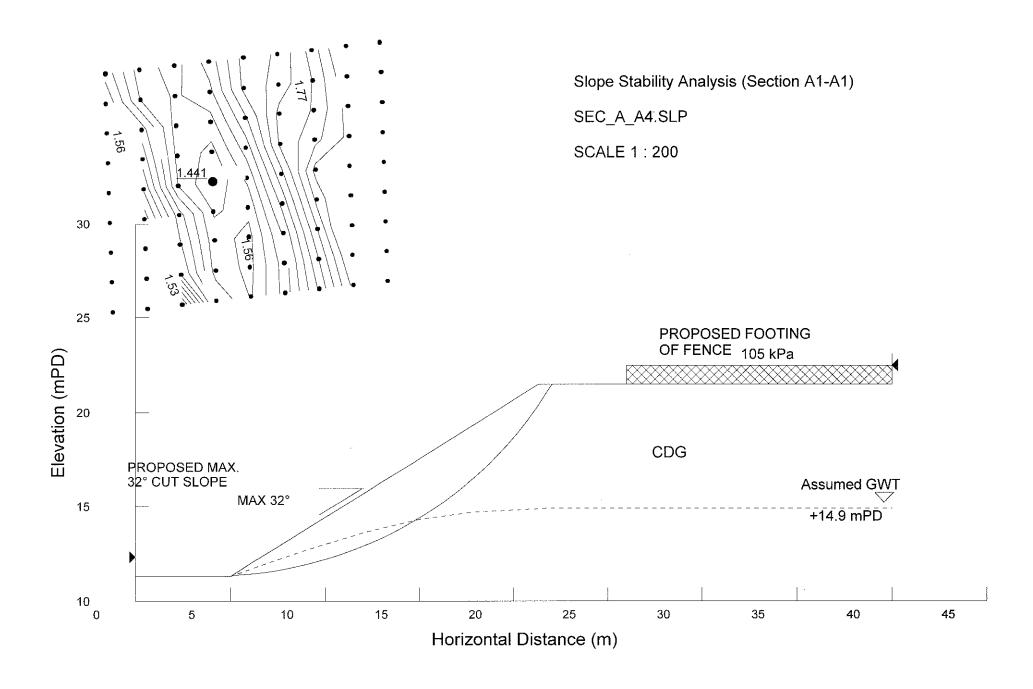
Stability Analysis for the 32° Soil Cut Slope

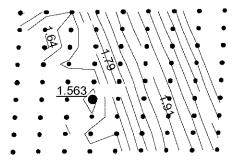
Section A - A





Section A1 - A1

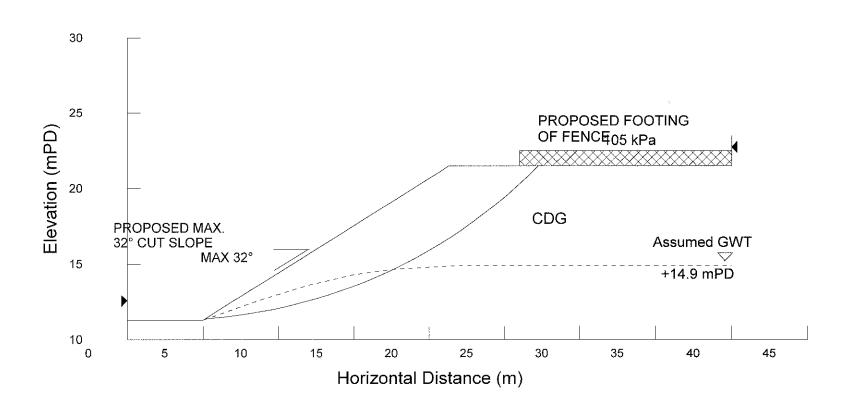




Slope Stability Analysis (Section A1-A1)

 ${\sf SEC_A_A44.SLP}$

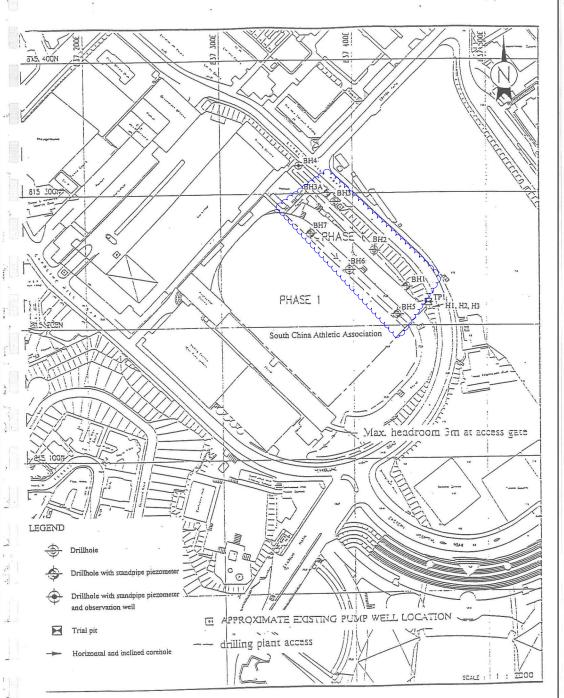
SCALE 1:250



Appendix D

Relevant Ground Investigation Record





	*	200			ENC PME			1	JOB HOLE	No.			-	CON	E RECORD HTRACT No. TE from 04-09-96 To 06-09-96	
PRO	ECT				ient ciati									SE	IEET 1 of 4	
MET	HOD	2207					0-0R						R	OCE	COREBIT	
MAC	HINE	-	ary	Drill		-		E &	33743	39.90		}	T2-101 HOLE DIA. Px Hx			
MAC	HINE	DR.	21					N d	31522	29.92						
FLUS	SHIN	G ME				0	RIEN	ratio Vert					G	ROU	JND-LEVEL +18.32mPD	
Drilling Progress	Casing depth/ size	mater Totol core Recovery & Recovery & Recovery Bold Core Recovery Becovery Becovery Becovery Arthur Index I							les	Reduced E level	Depth (m)	Lege	Grade	Zone	Description	
=	PIL									18.12		× ×	-	Н	CONCRETE	
1	Inspection									16.82	1.50				Loose, brown, slightly gravelly, clayey, silty fine to coarse SAND. (FILL)	
2 3 4 5				90				1.1 1.2 2.3 X=6	¥ • 1	14.22	2.50				Firm, brown, gravelly, very sandy SILT & CLAY.	
5	5 60 No. 100.								7 85 C8 K	14.32	5.45		V		Extremely weak, brown, completely decomposed, coarse-grained GRANITE (Medium dense, gravelly clayey silty fine to coarse SAND) (C.D.G.)	
7 8 90-60-90	Px 1.29m 1.2									11.82	7.50		¥		Extremely weak, yellowish pink, completely decomposed, coarse-grained GRANITE (Medium dense, gravelly slightly clayey, silty fine to coarse SAND.) (C.D.G.)	
• S	SMALL DISTURBED SAMPLE BULK DISTURBED SAMPLE S.P.T. LINER SAMPLE WATER LEVEL WATER LEVEL WATER LEVEL									TOUR TOUR TOUR TOUR TOUR TOUR TOUR TOUR				REMARKS: A piezometer is installed at 20m. (-1.48MPD)		
■ t	76 UN	ndisturi Disturi Disturi	BED SA	ON SAM			Form No. PRO/05/03									

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GOLD RAM ENGL & DEVELOPMEN	NEERING JOB No.	LHOLE RECORD CONTRACT No. DATE from 04-09-96 To 06-09-96			
PROJECT Re-development of Athletic Association	South China n - PHASE 1	SHEET 2 of 4			
METHOD Rotary Drill	CO-ORDINATES E 837439.90	ROCK COREBIT T2-101			
MACHINE No. DR.21	N 815229.92	HOLE DIA. Px Hx			
FLUSHING MEDIUM Water	ORIENTATION Vertical	GROUND-LEVEL +18.32mPD			
Drilling Progress Casing depth/ size Progress The size R.q.D. Fracture Index/m Mamples Samples Samples Reduced Index (m Samples Legend	Description				
11	34 y 5.11 N=38 8 10.45 	X As sheet 1 of 4			
-12 :100::	N=50 10 12.95	Extremely weak, yellowish brown to yellowish pink, completely decomposed coarse-grained GRANITE (Dense, gravelly, silty fine to coarse SAND) (C.D.G.)			
16	50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Extremely to very weak, yellowish brown, completely to highly decomposed coarse-			
17 88.	11. 15.45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	coarse SAND) (C.D.GH.D.G.)			
7.25 m 09:00	-0.88 19.001 9-0	X As sheet 3 of 4			
SMALL DISTURBED SAMPLE & MAZIER BULK DISTURBED SAMPLE A WATER S.P.T. LINER SAMPLE Y WATER U100 UNDISTURBED SAMPLE 1 STANDA TEST U76 UNDISTURBED SAMPLE PISTON	SAMPLE 15 LOGGED : C.M.Yee SAMPLE CHECKED : P.S.Nau	REMARKS: A piezometer is installed at 20m. (-1.48MPD)			

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C	k				ENG PME				JOB HOLE		DF		(CON	RECORD ITRACT No. E from 04-09-96 To 06-09-96
PROJ	ECT	Re-	deve letic	lopm Asso	ent c	f So n -	outh PHA	Chino SE 1	a					SH	EET 3 of 4
METH		Rot	ary .	Drill		_	o-or	DINAT E 8	ES 3743 1522						T2-101 DIA. Px Hx
FLUS	SHING	Wat	MUIC			0	RIENT	TATIOI Verti					G	ROU	JND-LEVEL +18.32mPD
Drilling Progress	- 64	Water	Water Recovery %	Totol core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index/m	Tests	Samples	Reduced in level		Legend	Grade	Zone	Description
21 22 22 23 24 25 26 27 27 28	Hx	date	60	900	30 44 44 44 44 44 44 44	26 42 42 43 43 93 70 ER SAL	5. 3.3 NI NI 9.6 3.8 6.6 4.7	₩= 200/0.15m	T2-10	-1.65 -2.16 -2.16 -3.6 -5.7 -7.0 -7.4	20.15 20.50 21.10 22.00 23.00 23.00 23.00 23.00 25.02 24.55 32.4.75 25.33 25.75 26.16	***************************************	N		Very weak, yellow and pink mottled brown, highly decomposed coarse grained GRANITE. (Very dense, very gravelly fine to coarse SAND) (H.D.G.) Moderately strong to strong, partly very weak to weak, yellowish pink, moderately decomposed coarse-grained GRANITE with moderately spaced iron-stained rough planar joints dipping 10° and 30°. (M.D.G.) Very weak to weak, yellowish pink to yellowish brown, highly decomposed coarse grained GRANITE. (Very dense, sandy GRAVELS) (H.D.G.) Moderately strong, yellowish pink, moderately decomposed coarse-grained GRANITE with very closely spaced iron-stained, managanese coated rough planar joints dipping 10° and 30° with very weak to weak highly to moderately decomposed zone at 25.00-25.30. (H.D.G. to M.D.G.) As sheet 4 of 4
	BULK D S.P.T. 1 1100 U	DISTURE ISTURBI INER S NDISTUR IDISTUR	ED SAM AMPLE RBED S BED SA	IPLE SAMPLE MPLE	▲ WATE	ER SAM ER LEV IDARD ON SAL	PLE EL PENETR UPLE		СН	ECXED	: C.M.Y : P.S.N	au	5/0	13	A piezometer is installed at 20m. (-1.48MPD)

				RAM VELC					JOB				(CON	RECORD			
										No.	BH-	1]	_	E from 04-09-96 To 06-09-96			
PRO.	JECT	Re-	-deve letic	lopm Asso	ent c	n -	PHA	SE 1	u						IEET 4 of 4			
MET	HOD	D (n:11		C	0-0R	DINAT	TES				R	OCK	C COREBIT			
MAC	HINE		ary	DTILL		-		E 837439.90 N 815229.92							HOLE DIA. Px Hx			
		DR.								29.92			GROUND-LEVEL					
FLU	SHING	Wa:				0	RIENT	Verti Verti					G	KU	+18.32mPD			
Drilling Progress	der	Water level/ time/ date	Water Recovery %	Totol core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index/m	Tests	Samples	Reduced B level	Depth (m)	Legend	Grade	Zone	Description			
8-09-96		5.50m	60	90	90	70	9	le.	T2-10	1 -12.44	30.75	**** **** ****	I		Moderately strong to strong, yellowish pink to pink, moderately to			
33 -34 -35 -36 -37 -38		16:00													slightly decomposed coarse—grained GRANITE with very closely (25.75-26.18m, 29.87—30.76m), moderately (26.18-29.26m) & widely (29.26-29.87m) spaced, iron—stained rough planar joints dipping 10°, 30° and 60°. (M.D.G. to S.D.G.) DRILLHOLE COMPLETED—			
•	SWALL :					ER SAL			IO	GGED	: С.Ж.Ү	ee			REMARKS: A piezometer is			
8 8	BULK D S.P.T. I U100 U U76 UN U70 UN	INER S NDISTU	RBED SABED SA	ON SA	EL PENETE		-	orm	-)5/	03	installed at 20m. (-1.48MPD)					

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			,									-			
	GC	ו מנו	RAM	ENG	NE:	ERIN	G			DI	RILL			RECORD	
G				PME			1	JOB						TRACT No.	
									No.	BH-	2	_	DAI	E from 31-08-96 To 03-09-96	
PROJEC	CT Re-	-deve .letic	lopm Asso	ent o	f So n –	outh PHA	Chin SE 1	.a						EET 1 of 4	
METHO	D				C	O-OR	DINA'	TES				ROCK COREBIT			
		tary	Drill		4	E 837415.96					HOLE DIA. Px Hx				
MACHIN	NE No. DR	.21				N 815257.15						п	HOLE DIA. Px Hx		
FLUSH	ING ME	DIUM			0	RIENT	*******						ROU	JND-LEVEL	
	Wa	ter		1	1		Vert	ical						+17.56MPD	
Drilling Progress Casing depth/	D level	Mater Recovery %							Reduced level	Depth (m)	Legend	Grade	Zone	Description	
	:								17.36	- 0.20	xx			CONCRETE	
1 luspection									16.06	1.50				Loose, reddish brown, gravelly, slightly clayey silty fine to coarse SAND. (FILL)	
1 2 2 5 5 5 7 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5	60	100				N=10	Neg 1 e2 Ke3 e4 Ke3 e4 Ke3 e4 Ke3 e5 e6	8.5			▼		Extremely weak, reddish brown, completely decomposed, coarsegrained GRANITE. (Medium dense, gravelly clayey silty fine to coarse SAND) (C.D.G.)	
E 10			100					м		10.0	P . 9 . 9	V		As sheet 2 of 4	
SMAI	LL DISTUR K DISTURB I. LINER S O UNDISTU	ED SAM	PLE	R SAMO	PLE	ATION	LOGGED : C.M.Yee One falling head permeability test done at 15.0-15.6					REMARKS: One falling head permeability test is done at 15.0-15.6m.			
1	U76 UNDISTURBED SAMPLE PISTON SAMPLE									Form No. PRO/05/03					

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GOLD RAM ENGI	NEERING	DRILLHOLE RECORD
& DEVELOPMEN	1 100 190.	CONTRACT No. BH-2 DATE from 31-08-96 To 03-09-96
PROJECT Re-development of Athletic Association	South China - PHASE 1	SHEET 2 of 4
METHOD	CO-ORDINATES	ROCK COREBIT
Rotary Drill	E 837415.96	T2-101
MACHINE No. DR.21	N 815257.15	HOLE DIA. Px Hx
FLUSHING MEDIUM	ORIENTATION	GROUND-LEVEL
Water	Vertical	+17.56MPD
Drilling Progress Casing depth/ Size Progress Racovery & Recovery &	Fracture Index/m Lagar Samples Samples Reduced Lagar L	Depth by S Description (m) S Description
11 Px 90	10 3.56	Extremely weak, brown, completely decomposed coarse-grained GRANITE. (Medium dense to dense, gravelly, silty, fine to coase SAND) 12.950 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
14 18:00 8:00 8:00 8:00 8:00 8:00 8:00 8:0	3.5 \$1.4.5 \$1.4.5 Med. 12.	Extremely weak, brown, completely decomposed coarse-grained GRANTE. (Medium dense to dense, gravelly, slightly clayey, silty, fine to coarse SAND) (C.D.G.)
	. 07	Very weak, pinkish brown, completed to highly decomposed coarse-grained GRANITE, (Very dense, very gravelly, slightly silty, fine to coarse SAND) (C.D.GH.D.G.)
100		0.00 V As sheet 3 of 4
SMALL DISTURBED SAMPLE A WATER BULK DISTURBED SAMPLE A WATER S.P.T. LINER SAMPLE WATER U100 UNDISTURBED SAMPLE TEST U100 UNDISTURBED SAMPLE PISTON	RD PENETRATION	One lauing head

A 5 00

				RAM				- 1	JOB	No.	DI	RILL		CON	E RECORD NTRACT No.	
				VELC					HOLE	No.	BH-	.2	_ [TAC	E from 31-08-96 Tc 03-09-96	
PRO	JECT	Re-	deve letic	lopm Asso	ent (ciatio	of So on –	PHA	Chin SE 1	ia					SE	HEET 3 of 4	
MET	HOD						0-0R						R	OCE	COREBIT	
2/1/0	*******		ary	Drill		-		E d	3741	5.96		-	T2-101 HOLE DIA. Px Hx			
MAC	HINE	DR.	21					N	81525	7.15						
FLUS	SHIN	G ME				0	RIENT	Vert					GROUND-LEVEL +17.56MPD			
-	q	Wat	er K	0 80	0 8		9 0	1616		p					+17.30212	
Drilling Progress	Casing depth/ size	Water level/ time/ date	Waler	Totol core Recovery &	Solid core Recovery %	R.Q.D.	Fracture Index/m	Tests	Samples	Reduced Reduced	Depth (m) 20.00	Lege	Grade	Zone	Description	
21				95				4.6 7.18 9 14.23 N=50	16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	-5.4	22.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	포		Extremely weak, pinkish brown, completely decomposed coarse-grained GRANITE. (Very dense, gravelly, clayey, silty, fine to coarse SAND) (C.D.G.)	
21 22 23 80-90-20 24 25	Hx	3.80mm at 18:00	60	. 85				7.9 12.00 12.00 12.00 12.00 12.00 12.00	15 15 15		23.45 		V		Extremely weak, yellowish brown, completely decomposed coarse-grained GRANITE. (Very dense, very gravelly, silty, fine to coarse SAND) (C.D.G.)	
=27— = = = = = = = = 28		7.30m		90	90	80	8.4			-10.1	7C 27.73	+ + + + + + + + + + + + + + + + + + +	I		Strong to very strong, greyish pink, slightly decomposed coarse- grained GRANITE with	
28 90-00-20				89	80	56	>10		T2-1		28.7	* + + + + + + + + + + + + + + + + + + +			moderately (29.77- 30.70m) to closely- spaced iron-stained, rough planar joints	
L29				90	90	65	7				29.7	7	П		dipping 10°, 30°, 45° & 60°. Highly decomposed GRANITE zone is found at 27.73-27.94m)	
* I	BULK D	DISTURB ISTURBE LINER S.	ED SAM AMPLE	PLE	WATI	ER SAM ER SAM ER LEVI	PLE EL PENETR	ATION	CE	ECXED	: C.M.Y	a,u		00	REMARKS: One falling head permeability test is done at 15.0-15.6m.	
1		DISTUR				ON SAL	OPLE TY TES	г	F(orm	No. F	PR0/0	5/	US'		

													_					
		GO	I.D	RAM	ENG	INE	ERIN	1G			DI	RILL			E RECORD			
	5	1			PME			- 1	JOB						NTRACT No.			
										No.	BH-	.3		DAT	TE from 22-8-96			
PRO	JECT	Re-	-deve letic	lopm Asso	ent (of So on –	outh PHA	Chin SE 1	ia I					SI	HEET 1 of 1			
MET	HOD					C	o-or	DINA	TES				ROCK COREBIT					
			ary			_		E							T2-101			
MAC	HINE	No. BR	-21					N						HOLE DIA. Hx				
FLU	FLUSHING MEDIUM ORIENTAT Water Ve												GROUND-LEVEL					
Drilling Progress	2 2 2 3 2							Tests	Samples	Reduced	Depth (m)	Legend	Grade	Zone	Description			
1 22-08-08	Inspection Pit (60	100		. 107	i.	32			2.50				Medium dense, reddish brown, gravelly, clayey silty, fine to coarse SAND. Concrete surface is found at 0.00-0.1m. (FILL)			
3		NIL at 18:00		66				N=16	T2-10		3.70	A X			CONCRETE			
E 4		1 30.00									ı			-	DRILLHOLE COMPLETED -			
90-90-27 3 4 5 6 7 8 9 15	_ 3										manadamadamadamadamadamadamadaha							
10	MALL I	ISTURE	ED SAM	PLE	MAZI	ER SAM	PLE		100	CED	-				REMARES :			
100		STURBE			WATE	R SAMO	PLE		LOGGED : C.M.Yee Drillin				Drilling terminated according to Engineer's					
S.P.T. LINER SAMPLE Y WATER LEVEL STANDARD PENETRATION								LTION	instruction.				instruction.					
■ UT6 UNDISTURBED SAMPLE □ PISTON SAMPLE								Form No. PRO/05/03										
1 B	176 UNDISTURBED SAMPLE PISTON SAMPLE FULLY NO. PRO														1			

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	X						ERIN		JOB					CON	E RECORD	
DDO	TECE						outh			No.	BH-	3A			E from 11-09-96 To 17-09-96	
PRO	JECT	Ath	-aeve letic	Asso	.eni ciati	on -	PHA	SE 1						-	HEET 1 of 6	
MET	HOD	Pot	ary	Dai!!		C	0-0R						R	OCK	C COREBIT	
MAC	HINE		urg	Ditto		\neg			33738 31530				HOLE DIA. Hx			
		BR.				-	OTENIO			0.08			- C	POI	JND-LEVEL	
FLU	SHIN	G ME				0.	RIENT	Vert				+8.65MPD				
Drilling Progress	Casing depth/ size	Water level/ time/ date	Water Recovery &	Totol core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index/m	Tests	Samples	Reduced	Depth (m)	Legend	Grade	Zone	Description	
1 2 3 4 5 5 7 8 9 5	Inspection Pit		-	88				2.5 2.5 ¥ 3.4 7 = 12	M 01 02	4.65	2.50				Medium dense, yellowish brown, gravelly, clayey silty, fine to coarse SAND. (FILL)	
5 6	Hx		60	100				2.3 3.4 7 4.4 N=15	3		5.45	0 0 0	≖		Extremely weak, pinkish brown completely decomposed, coarsegrained GRANITE. (Medium dense, gravelly clayey silty fine to coarse SAND) (C.D.G.)	
7 8 9						3.3 4.3.3 47.7 X=23	M a 5 5 6 6	7.50	9 - 1 - 6 - 6 - 6 - 7 - 6 - 6 - 7 - 7	V		Extremely weak, yellowish brown, completely decomposed, coarse-grained GRANITE. (Medium dense, gravelly clayey silty fine to coarse SAND) (C.D.G.)				
SMALL DISTURBED SAMPLE BULK DISTURBED SAMPLE BULK DISTURBED SAMPLE VATER SAMPLE U100 UNDISTURBED SAMPLE U100 UNDISTURBED SAMPLE U70 UNDISTURBED SAMPLE U70 UNDISTURBED SAMPLE PISTON SAMPLE V70 UNDISTURBED SAMPLE PERMEABILITY TEST										TOURS OF THE PROPERTY OF THE P				00	REMARKS: A Piezometer is installed at 18m. (-9.35MPD)	

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GOLD RAM E & DEVELOP		DRILL JOB No. HOLE No. BH-3A	HOLE RECORD CONTRACT No. DATE from 11-09-96 To 17-09-96
	t of South Chin tion – PHASE		SHEET 2 of 6
METHOD Rotary Drill	CO-ORDINA E	TES 837381.34	ROCK COREBIT T2-101
MACHINE No. BR.21	N	815300.08	HOLE DIA. Hx
FLUSHING MEDIUM Water	ORIENTATIO Veri	ON tical	GROUND-LEVEL +8.65MPD
Progress Casing depth size pp size pp size A defectory Total core Recovery & Solid core	R.q.D. Fracture Index/m	Samples Reduced Reduced (B) Harel 1.732 (B) Harel Legend	Description
	7.3 7.3 7.3 7.3 7.3 7.3	10.45 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	X As sheet 1 of 6
1.80m	N= 200/0.07	4 -3.92 13.57	highly decomposed
16 2 60 60 60 60 60 60 60 60 60 60 60 60 60	12.2 7.3.2 N=1.0	-4.55 13.20 * * * * 14.00 3	spaced iron-stained manganese-coated rough planar joints dipping 10°. (M.D.G.)
16 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	↓5.0 ↓1thm ×=4x	14	Extremely weak, pinkish brown, completely decomposed coarsegrained GRANITE. (Medium dense to very dense, very gravelly, clayer, silty fine to coarse SAND) (C.D.G.)
0		-10.35 19.00 2 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	M As sheet 3 of 6
SMALL DISTURBED SAMPLE 2 1 BULK DISTURBED SAMPLE 1 S.P.T. LINER SAMPLE 2 1 U100 UNDISTURBED SAMPLE 1	AZTER SAMPLE ATER SAMPLE ATER LEVEL TANDARD PENETRATION EST ISTON SAMPLE	15 LOGGED : C.M.Yee CHECKED : P.S.Nau Form No. PRO/03	REMARKS: A Piezometer is installed at 18m. (-9.35MPD)

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•	*	TO SECOND					EERIN LTD	- 1	JOB HOLE		DH BH-		(CON	RECORD TRACT No. E from 11-09-96 To 17-09-96		
PRO	JECT	Re-	-deve	lopm	ent ciatio	of S	outh - PHA	Chin SE 1	а					SH	EET 3 of 6		
MET	HOD				0 00000		CO-OR						ROCK COREBIT				
MAC	HINE	No.	ary	Drill		\dashv		_	3738				HOLE DIA. Hx				
ELII	CTITAL	BR.				-	RIEN		815300.08					GROUND-LEVEL			
LLU		Wa	ter						rtical				+8.65MPD				
Drilling Progress	Casing depth/ size	Water level/ time/ date		Totol core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index/m	Tests	Samples	Reduced level	Depth (m) 20.00	Legend	Grade	Zone	Description		
21	J							7.10 12.20 \$36.06 X=127	16		F		V		Extremely weak to weak, yellowish brown, highly decomposed coarsegrained GRANITE. (Very dense, sandy GRAVELS) (H.D.G.)		
222 96-60-21		1.50m at 18:00		95				2.2 3.0 6.7 X=20	18 18		23.00	0 0 0 0 0 0 0 0 0 0			Extremely weak, pinkish brown to yellowish brown, completely decomposed coarsegrained GRANTIE.		
27 27 27 20 100 100 100 100 100 100 100 100 100	Hx	4:00 4:00 at 08:00	60	∴85 ∴85				4.2.1.57 7.21.37 X=63	19 20	-19.3					(Medium dense to very dense, very gravelly clayey silty fine to coarse SAND) (C.D.G.)		
29				0				43.167 ↓ N= B00/0.15:	121 22		E	000000000000000000000000000000000000000	N		Extremely weak to weak, pinkish brown to yellowish brown highly decomposed coarse—grained GRANITE. (Very dense, sandy GRAVELS) (H.D.G.)		

LOGGED : C.M.Yee

CHECKED : P.S.Nau

Form No. PRO/05/03

REMARKS :

A Piezometer is installed at 18m. (-9.35MPD)

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SWALL DISTURBED SAMPLE A MAZIER SAMPLE

⇒ BULK DISTURBED SAMPLE ▲ WATER SAMPLE

S.F.T. LINER SAMPLE Y WATER LEVEL
U100 UNDISTURBED SAMPLE STANDARD PENETRATION
TEST
U76 UNDISTURBED SAMPLE PISTON SAMPLE
U70 UNDISTURBED SAMPLE PERMEABILITY TEST

C	*	TOP .			ENG PME			1	JOB HOLE		DI BH-			COL	E RECORD NTRACT No. TE from 11-09-96 To 17-09-96
PROJ	ECT	Re-	deve letic	lopm	ent c	of So n -	uth PHA	Chin SE 1	a					SI	HEET 4 of 6
METH	HOD			Drill			0-OR	DINA					R	OCI	C COREBIT
MACE	HINE	No.		27 000	1				33738 31530				Н	OLI	E DIA. Hx
FLUS	SHING	BR.	DIUM			0	RIEN	TATIO Vert			-		G	RO	UND-LEVEL +8.65MPD
Drilling Progress		Water level/ time/ date	Mater Recovery %	Totol core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index/m	Tests	les	Reduced level	Depth (m)	Legend	Grade	Zone	Description
33 -34 -8 -2 -35 -35 -36 -36 -36 -36 -36 -36 -36 -36 -36 -36	В		60	0 0	0	Q	м	ss_ioo \forall Ne 180/G_IOn He He DOO/G_IOds	T2-1(11	31.00				As sheet 3 of 6
38 90-80-1		2.10mm 18:00 4.00m 08:00	ED SAI		28 20 20 MAZI				T2-1	-29.1 -30.2	5- 37.8 5- 37.8 5- 38.9	**************************************	N N		As sheet 5 of 6 REMARKS: A Piezometer is
I S.	P.T. I 1100 U	ISTURBE INER SA NDISTUR DISTURI	AMPLE RBED S BED SA	AMPLE MPLE	* TEST	R LEVI DARD ON SAL	el Penetr				: p.s.n	PRO/C	35/	03	installed at 18m. (-9.35MPD)

.23 0

F 42

- 43

45

- 47

Hx

60

08:00

2.10m at 18:00 3.05m

DRILLHOLE RECORD

CONTRACT No.

DATE from 11-09-96 To 17-09-96

JOB No. HOLE No. BH-3A PROJECT Re-development of South China SHEET 5 of 6 Athletic Association - PHASE 1 ROCK COREBIT CO-ORDINATES METHOD T2-101 Rotary Drill E 837381.34 HOLE DIA. Hx MACHINE No. N 815300.08 BR.21 GROUND-LEVEL ORIENTATION FLUSHING MEDIUM +8.65MPDVertical Water Totol core Recovery % Solid core Recovery & Fracture Index/m Reduced Samples Legend Grade Mater | Mater Water R.Q.D. Depth Description Tests (m)

Moderately weak to moderately strong N N yellowish brown to pinkish brown, 41.08 moderately decomposed, coarse-grained GRANITE with very closely spaced, iron-stained, rough planar joints dipping 10° and 30°. 0 NI T2-101 13 Highly decomposed zones at 37-37.8m and 38.9-42m. (M.D.G. with H.D.G. zones)

43,167

Weak to moderately weak pinkish brown, highly decomposed coarse grained GRANITE. (Very dense, sandy GRAVELS) (H.D.G.)

Moderately weak to moderately strong pinkish brown moderately decomposed coarse grained GRANITE. (Very dense, sandy GRAVELS) (M.D.G.)

As sheet 6 of 6

 SWALL DISTURBED SAMPLE
 MAZIER SAMPLE BULK DISTURBED SAMPLE A WATER SAMPLE I S.P.T. LINER SAMPLE

U100 UNDISTURBED SAMPLE | STANDARD PENETRATION

100 0

99 99

100 100 0 NI

0 >10

49

U76 UNDISTURBED SAMPLE | PISTON SAMPLE E U70 UNDISTURBED SAMPLE PERMEABILITY TEST LOGGED : C.M.Yee CHECKED : P.S.Nau

T2-101

REMARKS : A Piezometer is installed at 18m. (-9.35MPD)

Form No. PRO/05/03

46.00

47.50

39.21 47.88 0 8 9

48.96

DRILLHOLE RECORD GOLD RAM ENGINEERING & DEVELOPMENT LTD. CONTRACT No. JOB No. HOLE No. BH-3A DATE from 11-09-96 To 17-09-96 PROJECT Re-development of South China SHEET 6 of 6 Athletic Association - PHASE 1 CO-ORDINATES ROCK COREBIT METHOD T2-101 Rotary Drill E 837381.34 HOLE DIA. Hx MACHINE No. N 815300.08 BR.21 GROUND-LEVEL ORIENTATION FLUSHING MEDIUM Vertical +8.65MPD Water Fracture Index/m Drilling
Progress
Casing depth/ Reduced level Samples Mater level/time/ Mater date Water Totol cor-Description -41.65 50.30 49 >10 100 100:: Moderately strong to 50.40 strong, pinkish brown, moderately to slightly decomposed coarse-100 75 7.8 100: granind GRANITE with closely to very closely T2-101 60 spaced, iron-stained, - 51.90 rough planar joints dipping 10°, 30°, 45° & 80°. (M/S.D.G.) 100 80 100-- DRILLHOLE COMPLETED -REMARKS : SMALL DISTURBED SAMPLE MAZIER SAMPLE LOGGED : C.M.Yee A Piezometer is BULK DISTURBED SAMPLE A WATER SAMPLE installed at 18m. CHECKED : P.S.Nau

. d & .

I S.P.T. LINER SAMPLE

■ U100 UNDISTURBED SAMPLE ↓ STANDARD PENETRATION TEST

■ U76 UNDISTURBED SAMPLE □ PISTON SAMPLE

■ U70 UNDISTURBED SAMPLE F PERMEABILITY TEST

(-9.35MPD)

Form No. PRO/05/03

LOGGED : C.M.Yee

CHECKED : P.S.Nau

Form No. PRO/05/03

REMARKS :

(-6.28 mPD)

(-1.72 mPD)

A Standpipe piezometer is installed at 18m.

observation well is installed at 10m.

100

U100 UNDISTURBED SAMPLE USTANDARD PENETRATION TEST

WATER LEVEL

SMALL DISTURBED SAMPLE
 MAZIER SAMPLE

BULK DISTURBED SAMPLE A WATER SAMPLE

■ U76 UNDISTURBED SAMPLE □ PISTON SAMPLE

■ U70 UNDISTURBED SAMPLE
▼ PERMEABILITY TEST

I S.P.T. LINER SAMPLE

•	À.			RAM VELO					JOB HOLE		DI BH-			COL	E RECORD HTRACT No. "E from 23-08-96 To 29-08-96
PRO	JECT	Re-	-deve letic	lopm Asso	ent o	of S	outh PHA	Chir	ıa					SE	IEET 2 of 5
MET	HOD						0-0R						R	OCE	COREBIT
2(4.0	777777		ary	Drill		\dashv		E	83735	58.97		}	н	OLF	T2-101 DIA. Px Hx
MAC	HINE	DR.	21					N	81532	22.57					
FLU	SHIN	G ME				0	RIEN						G	ROI	JND-LEVEL +11.24mPD
	7	Wat	ter k	0 80	n 8		9.6	Vert							+11.2411.20
Drilling Progress	Casing depth/ size	Water level/ time/ date	Water	Totol core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index/m	Tests	Samples	Reduced No level	Depth (m)	Legend	Grade	Zone	Description
-		3.10m at 08:00						2,2 3,3 4,6	1.	0.62	10.45	9 -	V		As sheet 1 of 5
-11				98	98	100	0		T2-10		11.55		п		Strong to very strong,
- - 12				100	100	100	1.2		TNW	-1.15	12.39	**** **** ****			greyish pink, slightly decomposed coarse- grained GRANITE with very widely spaced
12 90-00-13 72											13.00	000	I		iron-stained joints dipping at 10°. (S.D.G.)
14	Hx	2.50m 18:00	60	100				2.3 4.4 6.8 N=23	9 9 9		14.45				Very weak, yellowish brown, inequigrnular, highly decomposed coarse-grained GRANITE. (Very dense, sandy GRAVELS). (H.D.G.)
17 90-90 -18 7		4.85m 08:00		100				3.3 3.0 y 10.13 X=34	10 11 11		18.00		V		Extremely weak, pinkish brown, completely decomposed coarse-grained GRANITE. (Medium dense to dense, gravelly, slightly clayey, silty fine to coarse SAND.) (C.D.G.)
- 20	MALL I	DISTURB	ED SAL	PLE	-	ER SAN		2.3 5.3 y 6.0 N=23	13	GED	19.45 E C.M.Ye				REMARKS :
\$ E	ULK D	STURBE	D SAM	PLE .	WATE	R SAM					: P.S.N				A Standpipe piezometer is installed at 18m.
1 t	1100 U	INER SA NDISTUR DISTURI DISTURI	RED S.	ample mple	I STAN	DARD ON SAL	PENETR. OPLE		Fo	rm N	lo. P	R0/0	5/0	3	(-6.28mPD) observation well is installed at 10m. (-1.72mPD)

14 5 m

DRILLHOLE RECORD GOLD RAM ENGINEERING & DEVELOPMENT LTD. JOB No. CONTRACT No. HOLE No. BH-4 DATE from 23-08-96 To 29-08-96 PROJECT Re-development of South China 3 of 5 Athletic Association - PHASE 1 ROCK COREBIT CO-ORDINATES METHOD T2-101 Rotary Drill E 837358.97 HOLE DIA. Px Hx MACHINE No. N 815322.57 DR.21 GROUND-LEVEL ORIENTATION FLUSHING MEDIUM Vertical +11.24mPD Water Totol core Recovery & Solid core Recovery & Fracture Index/m Samples Water Legend Grade Water Lecovery R.Q.D. Depth Description (m) - 21 100 3,5 5,8 ¥ 13,15 ¥=41 As sheet 2 of 5 100 E 25 8 60 3.4 5.10 ¥14.20 X=50 Extremely weak to very weak yellowish brown, completely to highly decomposed coarse-- 28 grained GRANITE. (Very dense, very gravelly, silty, fine to coarse SAND.) (C/H.D.G.) SMALL DISTURBED SAMPLE MAZIER SAMPLE LOGGED : C.M.Yee A Standpipe piezometer is installed at 18m. ⇒ BULK DISTURBED SAMPLE
▲ WATER SAMPLE CHECKED : P.S.Nau WATER LEVEL S.P.T. LINER SAMPLE (-6.28 mPD)U100 UNDISTURBED SAMPLE | STANDARD PENETRATION observation well is

installed at 10m.

(-1.72 mPD)

Form No. PRO/05/03

. 4 5

■ U78 UNDISTURBED SAMPLE □ PISTON SAMPLE

UTO UNDISTURBED SAMPLE PERMEABILITY TEST

G	& &	DE	RAM VELC	PME	NT	LTD.				DF		(CON	RECORD ITRACT No. E from 23-08-96 To 29-08-96
PROJECT	Re-	-deve letic	lopm Asso	ent. ciatio	of So on –	PHA	Chin SE 1	a						IEET 4 of 5
METHOD	Po+	am.	D~i11		C	0-OR	DINAT					R	OCK	C COREBIT
MACHINI		ary	Ditte		1		_	33735 31532			Ì	Н	OLF	DIA. Px Hx
FLUSHIN	DR.				0	RIEN	CATIO					G	ROU	JND-LEVEL
	Wat						Vert	ical						+11.24mPD
Drilling Progress Casing depth/	Water level/ time/ date	Water Recovery %	Totol core Recovery %	Solid core Recovery *	R.Q.D.	Fracture Index/m	Tests	San	Reduced level	Depth (m) 30.00	Legend	Grade	Zone	Description
90-90-92	3.90m at 18:00 5.20m at 08:00		0		.*	8	7.10 13.31 \$4.67 X=186	20 21		31.00	0 0 0	立立		As sheet 3 of 5
08:00 1 1 1 1 1 1 1 1 1													Very weak, yellowish brown, highly decomposed coarse- grained GRANITE.	
38 90-90-93	4.10m at 18:00 5.50m at 08:00	n	0 63	0	0	М	61,138 Nm 200/0.50	124 225	αι	-				(Very dense, sandy GRAVELS) (H.D.G.)
SMALL BULK S.P.T. U100 U76 U	DISTURI DISTURB LINER S UNDISTURINDISTURI	ED SAMPLE RBED S RBED SAMPLE	IPLE SAMPLE AMPLE	▲ WAI ▼ WAI ↓ STA ↑ TES □ PLS	NDARD T TON SA	PLE EL PENETF		LO CH	ECKED	E 40.00 : C.M.Y. : P.S.N.	ee au	05/	000	REMARKS: A Standpipe piezometer is installed at 18m. (-6.28mPD) observation well is installed at 10m. (-1.72mPD)

12 m

■ U100 UNDISTURBED SAMPLE ↓ STANDARD PENETRATION TEST

■ U76 UNDISTURBED SAMPLE
□ PISTON SAMPLE

■ U70 UNDISTURBED SAMPLE PERMEABILITY TEST

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DRILLHOLE RECORD

JOB No.

CONTRACT No.

observation well is installed at 10m.

(-1.72 mPD)

Form No. PRO/05/03

621

DATE from 23-08-96 To 29-08-96 HOLE No. BH-4 PROJECT Re-development of South China SHEET 5 of 5 Athletic Association - PHASE 1 ROCK COREBIT CO-ORDINATES METHOD T2-101 Rotary Drill E 837358.97 HOLE DIA. Px Hx MACHINE No. N 815322.57 DR.21 ORIENTATION GROUND-LEVEL FLUSHING MEDIUM Vertical +11.24mPD Water Totol core Recovery % Solid core Recovery % Casing depth/ size size pp fit as par a par a par Water Recovery % Fracture Index/m Lases Samples Reduced Grade R.Q.D. Depth Description (m) -28.76 27 -41 As sheet 4 of 5 Hx E_42 0 - 43 33 >10 90 80 Moderately strong to strong, yellowish pink to greyish pink, moderately to slightly 91 91 66 8 decomposed coarsegrained GRANITE with T2-101 E 45 closely to medium 45.30 spaced iron-stained, rough planar joints dipping at 10°, 45°, 65°. (M/S.D.G.) 67 8.1 95 95 F 46 48.41 62 F 47 95 DRILLHOLE COMPLETED -- 48 - 49 REMARKS : • SMALL DISTURBED SAMPLE & MAZIER SAMPLE LOGGED : C.M.Yee A Standpipe piezometer is installed at 18m. BULK DISTURBED SAMPLE A WATER SAMPLE CHECKED : P.S.Nau WATER LEVEL S.P.T. LINER SAMPLE (-6.28 mPD)

G	7000			ENC PME			- 1	JOB		DI BH-			COI	E RECORD NTRACT No. IE from 29-8-96 to 3-9-96
PROJECT				ent ciatio				a	110.	211				HEET 1 of 4
METHOD			11000	0.0000		0-0R						R	0C1	K COREBIT
MACHIN		ary			-			33743				Н	OLI	T2-101 E DIA. Px Hx
	DR-							31520	08.02			_		
FLUSHI	VG ME				0	RIENT	ratio Vert					G	RO	UND-LEVEL +21.41MPD
Drilling Progress Casing depth/	Water level/ time/ date	Water Recovery %	Totol core Recovery %	Solid core Recovery %	R.q.D.	Fracture Index/m	Tests	Samples	Reduced	Depth (m.)	Legend	Grade	Zone	Description
F (Į.		.,				21.31		XXXXX - 1 - •			Loose, grey, fine to coarse SAND. (FILL)
90-90-02 Px	NIL 40 15:01 05:00	60	100		ي ا		2.3 9.2.0 9.2.0 9.2.12 9.2	No. 10 K	12.41	5.00	0	v		Extremely weak, pinkish brown, completely decomposed, coarse-grained GRANITE (Medium dense to dense, gravelly, clayey, silty fine to coarse SAND) (C.D.G.)
E 10			100					M.		10.00	α α	又		As sheet 2 of 4
SMALL BULK I S.P.T. U100 t U76 U7	DISTURBE DISTURBE LINER SA INDISTURB IDISTURB	D SAMP MPLE BED SA ED SAM	ONDIE (WATE WATE	N SAM	'LE L ENETRA PLE		LOG CHE	CKED :	C.M.Ye P.S.Na	u	5/0	3	REMARKS: Piezometer is installed at 16.0m. (+5.41MPD)

335-61			_		-				and the same of th		Dr	TTTT	TTO	TT	DECODD .
	_	GO	LD I	RAM	ENG	NE:	ERIN	G	100		DF	لططلة			E RECORD
OC.	末				PME			- 1	JOB		BH-	5			E from 29-8-96 to 3-9-96
DDO	TT CT	n -	1	7	ent o	f Si	naith	Chir		-				_	
PRO.	JECI	Ath	aeve letic	Asso	ciatio	n –	PHA	SE :	1					SE	HEET 2 of 4
MET	HOD						0-0R						R	OCE	COREBIT
		Rot	ary					E	83743	3.95					T2-101
MAC	HINE							N	81520	8.02			H	OLL	E DIA. Px Hx
		DR-				10	RIENT	CATT!) NI				G	ROI	UND-LEVEL
FLU	SHIN	G ME				10	ICIEIA I		tical				_		+21.41MPD
70	P		be .	0 K	9 K	_	рд		Ø	p		_	40		
ling	dept	Water level/	Water	col	col	R.q.D.	tur x/x	Test	m ple	educe	Depth	Legend	Grade	Zone	Description
Drilling Progress	lng siz	time/	Water	Totol core Recovery %	Solid core Recovery %	R.	Fracture Index/m		Samples	Reduced	(m)	Leg	G	Z	
_	Casing depth/ size	date	Re	To	Re					11.41	10.00	ग्राञ्चाः			
								8,10 12,14 14,19 Nm4Z	1.		10.45	- ° -			
									Ę	° * •			*		
11											12.50	J-6			Extremely weak,
12	Px								120		11.50	- 1 -			yellowish brown, completely decomposed
									1 8		Ē	 - -	V		coarse-grained GRANITE.
-12				100			1		9 W 9		F		_		(Very dense, very gravelly, clayey, silty
_13				200000				1211	9		12.50	F V	4		fine to coarse SAND) (C.D.G.)
13								7,11 16,24 24,25 N=64	10		12.95	- - -			(C.D.G.)
Ē									10		E	-i			
Ė											1-14.00	0 0			
-14					1 1				120	7.4	1-14.00			-	
Ē									1 🛭		15.00	0 - P			
96				100					1 8		Ē				
15 15 15 15 15			60					1	111 x		- 15.00	- - -			
F 50								8,10 14.1 23.2	7 12		15.45	1	1		
E								Marcos	12		Ē	0 + 6			
-16											16.50	0 0			Extremely weak, pinkish brown to yellowish
Ē	Hx								127			F -1-5			brown, completely to
E	112								1 🛭		E	0-	v		highly decomposed coarse-grained GRANITE.
E17				75			ĺ				17.50	0 1 0	1		(Very dense, very
Ē				******				1	13 13		-	10			gravelly, clayey silty fine to coarse SAND)
E.								9,13 18,2 25,8	27 II.		17.95	5 ° -	2	1	(C.D.G.)
F.				1				N=90	14		Ė	- j -			
17											E	- 1			
E 19					-				271		19.00	0 -	0		
- 19 - -									1 🛭		Ē				
E				95					×		20.0	a l	0		
- 20				*****	N	m . c	MDI 2		15	1	20.0	0	.1		REMARKS :
No. of the last		DISTUR			MAZI						: C.M.Y				Piezometer is installed
1		LINER S		LL LAG	W WATE	R LEV	EL			ECKED	: P.S.N	au			at 16.0m. (+5.41MPD)
		NDISTU		SAMPLE	1 STAN	DARD	PENETR	ATION							
B	U76 U	NDISTUR	BED SA	MPLE	☐ PIST	ON SA	MPLE		F	orm.	No. I	PRO/	C.		
8	עדס עד	NDISTUR	BED SA	MPLE	F PERL	ŒABIL	ITY TES	T		01111					

-25 m

•	*	2 &	DE	VELC	ENG PME	NT	LTD.				DI BH-		-	COL	E RECORD NTRACT No. TE from 29-8-96 to 3-9-96
PRO.	JECT	Re-	-deve letic	lopm Asso	ent o	of So on –	outh PHA	Chin SE 1	a					SE	IEET 3 of 4
MET.	HOD	Rot	ary			C	0-0R	DINAT	res 3 <i>3743</i>	22.05			R	OCE	C COREBIT T2-101
MAC	HINE	No.	-17						31520				H	OLE	DIA. Px Hx
FLU	SHIN	G ME				0	RIEN	TATIO Verti					G	ROI	UND-LEVEL +21.41MPD
Drilling Progress	Casing depth/ size	Water level/ time/ date	Water Recovery %	Totol core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index/m	Tests	Samples	Reduced	Depth (m)	Legend	Grade	Zone	Description
31-08		7.63m. at 16:00 14.00m						10.14 19.24 \$20.29 N=66	16	0.66	20.45	o _ a	V		As sheet 2 of 4
21		08:00		∵100∵ 0	100	76	6		T2-10	0.16	E 21.25	**** ****	H		
22				:94::	74	0	NI		T2-10	1	22.20	+++	I		
23 9				0						-1.64	23.05	0 0	N		Moderately strong, yellowish brown to yellowish grey, moderately decomposed
23 90-80-20	Hx			100	80	42	NI		T2-10		24.40	****	п		coarse-grained GRANITE with very closely spaced, iron-stained, rough planar joints dipping 10°,30°and 60°.
25			80	0		-				1	24.80	0	V		Highly decomposed coarse—grained GRANITE zones are found at 21.25—21.7m,
26		6.00m at 16:00		90	90	47	B NI	V .	-	-4.5	25.95 28.10 26.15	++++	I		22.2-23.05m,24.4-24.8m, 25.95-26.52m and 27.47-27.95m. (M.D.G.)
E_27		08:00		100	100	100	1.7	200/0.06=		-5.1	28.52	****			-
L				100	100	97	1.1	V M= 200/6.03m	-	-6.0	27.20 8- 27.47 - 27.50	++++	I		
28 29				100	100	80	4.5	200/0.03#	T2-10		27.50	****	区		
29				100	98	70	>10		T2-10	21	23.30	****	П		As sheet 4 of 4
• S	ULK DI	ISTURE STURBE INER SA	D SAMI	PLE A	WATE WATE	ER SAMO	PLE	ATION	15-5000		C.M.Ye				REMARKS: Piezometer is installed at 16.0m. (+5.41MPD)
1 B	76 UN	VDISTUR DISTURI DISTURI	BED SAI	APLE	TEST	ON SAM	PLE		Fo	orm -	No. P	RO/C	· ·		

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GOL	D RAM ENGI	NEERING			LE RECORD
	DEVELOPMEN		JOB No. HOLE No. BE		ONTRACT No. ATE from 05-09-96 To 11-09-96
PROJECT Re-o	levelopment of tic Association	South Chir	ra 1	1	SHEET 1 of 4
METHOD	n: 11	CO-ORDINA	TES	RO	CK COREBIT T2-101
MACHINE No.	ry Drill		837397.85	но	LE DIA. Hx
DR. 1			815242.68	CD	OUND-LEVEL
FLUSHING MED!		ORIENTATIO Vert		GR	+21.50mPD
Progress Casing depth/ gize my depth/ my depth	Recovery & Totol core Recovery & Solid core	Fracture Index/m	Red Red	Legend Grade	Description
2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 100 100	0 >10 52 5.1 911 12.13 76-69 15-96 21.50 0. 21.40	50 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Loose, grey, fine to coarse SAND. (FILL) Extremely weak, yellowish brown, completely decomposed coarse-grained GRANITE. (Very dense, gravelly, slightly clayey, silty, fine to coarse SAND) (C.D.G) Weak to moderately strong, yellowish pink, moderately to highly decomposed coarse-grained GRANITE with very closely spaced, iron-stained rough planar joints joints dipping 10° and dipping 10° and 70°. (M.D.G. to H.D.G.) Extremely weak, yellowish brown, completely to highly decomposed coarse-grained GRANITE. (Very dense, sandy GRAVELS.) (C.D.G. to H.D.G.) Very strong, yellowish brown to greyish pink, slightly decomposed coarse-grained GRANITE with widely spaced iron-stained, managanese coated rough planar joints dipping 10° & 30°. (S.D.G.) As sheet 2 of 4 REMARMS: One falling head Permeability test is done at 6.5m to 7.5m.	
U100 UNDISTURBE U76 UNDISTURBE U70 UNDISTURBE	D SAMPLE TEST	SAMPLE ABILITY TEST	Form No. I	PRO/05/03	

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DRILLHOLE RECORD

GOLD RAM ENGINEERING CONTRACT No. JOB No. HOLE No. BH-6 DATE from 05-09-96 To 11-09-96 Re-development of South China SHEET 2 of 4 Athletic Association - PHASE 1 CO-ORDINATES ROCK COREBIT METHOD T2-101 Rotary Drill E 837397.85 HOLE DIA. Hx MACHINE No. N 815242.68 DR.17 GROUND-LEVEL FLUSHING MEDIUM ORIENTATION +21.50mPD Vertical Water Fracture Index/m as as Mater Hater Recovery 9
Recovery Recovery Solid core Water Samples Grade Legend R.q.D. Depth Description (m) Extremely weak, pinkish 100 brown, completely decomposed coarse-17,32 grained GRANITE. (Very dense, very gravelly, slightly 24 10 T2-101 100 100 clayey, silty, fine to coarse SAND) (C.D.G.) NIL 18:00 NIL at 08:00 - 12.00 Weak to moderately 100 strong, yellowish brown, moderately -13 (11.1-11.8m) to 8.11 14.19 24.30 completely to highly (11.8-14.5m) decomposed coarse-grained GRANITE. (M.D.G. to C/H.D.G.) E 15 60 100 Hx Extremely weak, yellowish brown to £ 15.95 pinkish brown, 9,12 13,20 + 26,31 N=92 completely decomposed coarse-grained GRANITE. (C.D.G.) (Very dense, very gravelly, slightly clayey silty, fine to

80 SMALL DISTURBED SAMPLE MAZIER SAMPLE BULK DISTURBED SAMPLE A WATER SAMPLE S.P.T. LINER SAMPLE WATER LEVEL

U100 UNDISTURBED SAMPLE | STANDARD PENETRATION ■ U76 UNDISTURBED SAMPLE □ PISTON SAMPLE # U70 UNDISTURBED SAMPLE PERMEABILITY TEST

100

LOGGED : C.M.Yee CHECKED : P.S.Nau

000

19.50

10,18 21,27 32,38

One falling head Permeability test is done at 6.5m to 7.5m.

coarse SAND)

As sheet 3 of 4

Form No. PRO/05/03

GOLD RAM ENGINEERING & DEVELOPMENT LTD. PROJECT Re-development of South China DRILLHOLE RECORD CONTRACT No.

JOB No. DATE from 05-09-96 To 11-09-96 HOLE No. BH-6

SHEET 3 of 4 Athletic Association - PHASE 1 ROCK COREBIT CO-ORDINATES

METHOD T2-101 Rotary Drill E 837397.85

MAC	HINE	No.	u, g	D 1 000					3739 1524				H	OLE	DIA. Hx
-		DR.	_			01	RIENT	TATION			-		G	ROI	JND-LEVEL
FLU	SHIN	G MEI				0,	. VIIII	Verti							+21.50mPD
Drilling Progress	Casing depth/ size	Water level/ time/ date	Water Recovery %	Totol core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index/m	Tests	Samples	Reduced is level	Depth (m)	Legend	Grade	Zone	Description
	ŭ		<u> </u>	∵95 ∵	85	85	4.4	N= 200/6.07m	T2-10	1.43	20.07 - 20.20 - 20.60	++++	咒		Extremely weak, yellowish brown to pinkish brown,highly to completely
221 - 22 - 60 - 23 - 24 - 24 - 24		12.30m at 15:00 14.80m 08:00		70	68	56	>10	₩ N= B00/0.19m	18 T2-10		E	1+1+	V		to completely decomposed coarse grained GARNITE. (H.D.GC.D.G.) (Very dense,snady gravels.) Strong to very strong, yellowish brown to greyish pink, moderately to slightly decomposed coarse- grained GRANITE with moderately spaced iron- stained rough planar joints dipping 10°. (M.D.G. to S.D.G.)
25	HX		60	80				N=====================================	119 20		25.5l				Extremely weak to weak, yellowish brown, highly (20.6-24m) to moderately(24-24.3m) decomposed coarsegrained GRANITE. (H.D.G. to M.D.G.) Extremely weak to weak, yellowish pink, highly decomposed coarsegrained GRANITE.
27	101			90	48	8	>10				mmm	++++	+ + I		(Very dense, sandy GRAVELS) (H.D.G.) Extremely weak,
28				33	0	0	NI		T2-1	-6.I	80- 28.3	+++00000000	-	Ţ	yellowish pink. completely decomposed coarse-grained GRANITE. (Very dense, very gravelly, clayey, sity fine to coarse SAND) (C.D.G.)
E 30				0		-		-	NW	1_	- 29.8 - 30.0	00 0 0	o.		As sheet 4 of 4
	SMALL	DISTUR	BED SA	MPLE	MAZ	TER SA	MPLE		1.0		: C.M.Y	(ee			REMARKS:

BULK DISTURBED SAMPLE A WATER SAMPLE

WATER LEVEL S.P.T. LINER SAMPLE U100 UNDISTURBED SAMPLE 4 STANDARD PENETRATION TEST

■ U76 UNDISTURBED SAMPLE □ PISTON SAMPLE ■ U70 UNDISTURBED SAMPLE PERMEABILITY TEST INGGED : C.M.Yee CHECKED : P.S.Nau

Form No. PRO/05/03

One falling head Permeability test is done at 6.5m to 7.5m.

	The state of the s				ENG PME				JOB HOLE		DI BH-		3	CON	RECORD TRACT No. Tom 05-09-96 To 11-09-96
PROJ	JECT	Re-	deve letic	lopm	ent o	f Son -	outh PHA	Chin SE 1	.a					SH	EET 4 of 4
MET	HOD		ary .				o-or	DINA		7 05			R	OCE	COREBIT T2-101
MAC	HINE	No.	17					_	31524				H	OLE	DIA. Hx
FLUS	SHIN	G ME				0	RIEN	ratio Vert					G	ROU	JND-LEVEL +21.50mPD
Drilling Progress	Casing depth/ size	Water level/ time/ date	Water Recovery %	Totol core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index/m	Tests	San	Reduced E level	Depth (m) 30.00	Legend	Grade	Zone	Description
31 -00-01	Hx							N= 200/0.06m	22	-9.89	31.19	0000000	I		Weak, moderately strong to strong, moderately to highly decomposed coarse-grained GRANITE with very closely
32		10.80m at 16:00		100	100	100	1				32.23	**** **** **** **** ****			spaced, iron-stained, manganese coated rough planar joints dipping 10°,30° and 60°. (M.D.G. to H.D.G.)
		08:00		100	100	87	4				32.70	+ + + + + + + + + + + + + + +			
34 98 11			80	100	100	99	5		T2-10	11	33.58	****	I		Very strong, greyish pink to pink, slightly decomposed to fresh coarse-grained GRANITE with widely to moderately spaced ironstained rough planar joints dipping 10° &
36		10.93m at 16:00		100	100	96	1.7	ļ		-14.7	7- 36.27	* * * * * * * * * * * * * * * * * * *			30°. (S.D.G. to F.G.)
38											mandanandanan				DRILLHOLE COMPLETED ——
‡ E	BULK D	DISTURB ISTURBE INER SA	ED SAMO	PLE :	WATE	R SAM	PLE	ATION	1		: C.M.Ye				REMARKS: One falling head Permeability test is done at 6.5m to 7.5m.
∄ t	J76 UN	NDISTUR DISTURI DISTURI	BED SA	MPLE	TEST PERM	ON SAI	PLE		Fo	rm f	lo. P	RO/0	5/0	13	

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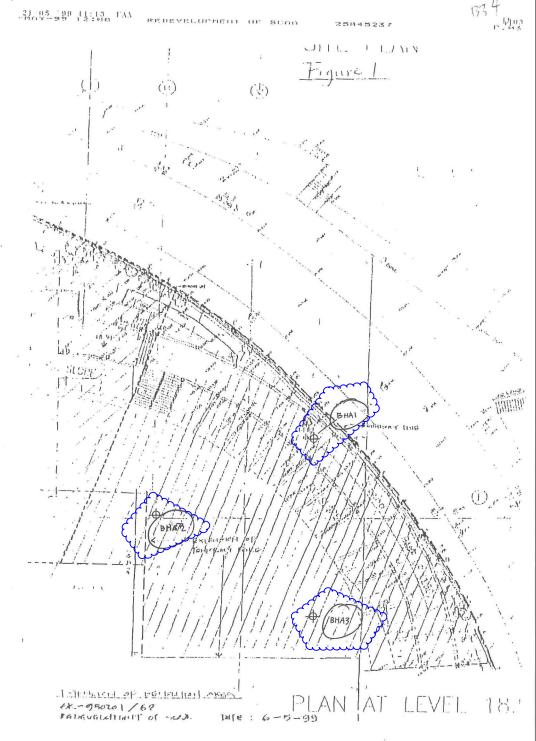
MET	HINE	Re-Ath Rot No. DR-	DE -deve letic ary -17 DIUM	VELC	ENG PME ent (ciatio	NT of Son -	LTD. outh PHA 0-OR	Chin SE 1 DINAT	a TES 33737 31526 N	No.	BH-		R	SF OCI	E RECORD NTRACT No. TE from 12-9-96 to 18-9-96 HEET 1 of 4 C COREBIT T2-101 E DIA. Hx UND-LEVEL +21.50mPD
Drilling Progress	Casing depth/ size	Water	Recovery %	Totol core Recovery %	Solid core Recovery %	R.q.D.	Fracture Index/m		les	Reduced in level	Depth (m)	Legend	Grade	Zone	Description
Water Wate												Extremely weak, yellowish brown to pinkish brown, completely decomposed coarse—grained GRANITE. (Medium dense to very dense, gravelly, clayey silty, fine to coarse			
13-00-06				100	100	100	0	-	T2-1	01	9.43		Ī		As sheet 2 of 4
	BULK D S.P.T. I 1100 U 176 UN	DISTURBI ISTURBI INER S. NDISTUR DISTUR	ED SAMO AMPLE RBED S BED SA	OPLE PLE AMPLE	MAZI MATE WATE STAN TEST	R LEVI DARD I	PLE IL PENETR OPLE		CHI	ECKED	: C.M.Ye : P.S.Ne	u	5/0	3	REMARYS: Piezometer is installed at 21m. (+0.28MPD) One falling head permeability test done at 16m to 17m.

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B31

(*				ENG PME			- 1	JOB HOLE		DI BH-		(CON	E RECORD STRACT No. TE from 12-9-96 to 18-9-96
PRO	ECT	Re-	deve	lopm	ent o	f Son -	ruth PHA	Chin SE 1	а					SH	HEET 3 of 4
MET	HOD	Rot				\neg		DINA	TES	70 95			R	OCE	C COREBIT T2-101
MAC	HINE	No.	-17						31526				H	OLE	□ DIA. H∞
FLU	SHING	Wat				0	RIENT	TATIO Vert					G	ROT	UND-LEVEL +21.50mPD
Drilling Progress	Casing depth/ size	Water level/ time/ date	Water Recovery &	Totol core Recovery %	Solid core Recovery &	R.q.D.	Fracture Index/m	Tests	Samples	Reduced S level	Depth (m) 20.00	Lege	Grade	Zone	Description
21	J									0.50	21.00	9 a	区区		As sheet 2 of 4
21				100				143.67	ν. Υ.	-0.42	21.80	000	V		Extremely weak to weak, pinkish brown, highly decomposed coarse— grained GRANITE.
				100	100	95	3.5	200/0.125	T2-10	1	22,78	++++	I		(Very dense, sandy GRAVELS) (H.D.G.) Very strong, yellowish
23 90-00-41	Нж		50	80					™ • •		24.00				pink to yellowish brown, slightly decomposed coarse- grained GRANITE with moderately spaced, iron-stained, manganese coated, rough planar joints dipping 10° and 30°. (S.D.G.)
26			60					9,12 15,19 9,22,32 N=69	18	-5.3	25.45				Extremely weak, yellowish brown, completely decomposed coarse—grained GRANITE. (Very dense, very gravelly, clayey, silty fine to coarse SAND) (C.D.G.)
27		6.70m at 16:00		50	35	16	NI	,	T2-1	Q1	28.2	+++++ +++++ +++++ 0	五人立		Weak to moderately strong, yellowish brown, moderately to highly decomposed coarse-grained GRANITE
29 - 60 - 81		14.30m at 08:00		85	83	62	8	200/0.05	T2-1	-7.2			I II		with very closely spaced, iron-stained rough planar joints dipping 10°,30° and 45°. (M.D.G. to H.D.G.)
30				. 63	33	32					11111	+ + + + + + + + + + + + + + + + + + + +	- 1		As sheet 4 of 4
	BULK D S.P.T. I U100 U U76 UN	DISTURE ISTURBI INER S NDISTUR DISTUR	ED SAM AMPLE RBED S BED SA	PLE AMPLE MPLE	WATE WATE STAN TEST	DARD ON SAI	PLE EL PENETR ÆPLE		CH	ECKED	: c.m.y : p.s.n		5/0	3	REMARKS: Piezometer is installed at 21m. (+0.28MPD) One falling head permeability test done at 16m to 17m.

DRILLHOLE RECORD GOLD RAM ENGINEERING & DEVELOPMENT LTD. CONTRACT No. JOB No. HOLE No. BH-7 DATE from 12-9-96 to 18-9-96 Re-development of South China 4 of 4 Athletic Association - PHASE 1 ROCK COREBIT CO-ORDINATES METHOD T2-101 Rotary E 837370.95 HOLE DIA. Hx MACHINE No. N 815268.37 DR-17 GROUND-LEVEL ORIENTATION FLUSHING MEDIUM +21.50mPD Vertical Water Samples Grade Reter | Mate Description Tests (m) 8 T2-101 Moderately strong to 83 62 very strong, yellowish brown to pinkish grey, moderately to slightly decomposed coarse-T2-101 48 26 >10 grained GRANITE with very closely spaced, iron-stained, rough planar joints dipping 10°, 30° and 45°. (M.D.G. to S.D.G.) 100 100 82 T2-101 100 100 T2-101 Very strong, pinkish grey to yellowish brown, fresh (33.29-100 T2-101 100 100 33.97 36.02m) to slightly (31.87-33.29m and 36.02-37.06m) decomposed coarse-grained GRANITE with T2-101 92 2.8 100 widely to moderately spaced, occassionally iron-stained, rough planar joints dipping 10°,30°,45° and 60°. (F.G. to S.D.G.) T2-101 100 100 90 T2-101 100 - DRILLHOLE COMPLETED -REMARKS : SMALL DISTURBED SAMPLE MAZIER SAMPLE LOGGED : C.M.Yee Piezometer is installed A WATER SAMPLE BULK DISTURBED SAMPLE CHECKED : P.S.Nau at 21m. (+0.28MPD) WATER LEVEL S.P.T. LINER SAMPLE One falling head permeability test done Form No. PRO/05/03 at 16m to 17m. ■ U76 UNDISTURBED SAMPLE ☐ PISTON SAMPLE ■ U70 UNDISTURBED SAMPLE ▼ PERMEABILITY TEST



D-17

						-						00.110	
PAUL Y	ITC C	ONS	TRU	CTIC	N & EN	IGIN	EERII	NG C	0. L	rD.		OB NO HOLE NO SHEET 1	BH A1
DRILL / E	BORE HOL	ELC	G									DATE from 28.05.99	to 03.06.99
PROJECT	PROPOSE	O RED	EVELOF	MENT	OF SOUTH	H CHIN	A ATHL	ETIC A	SSOCI	ATIC	ON -	PHASE I (ADDITIONAL W	ORK)
METHOD	ROTARY				CO-ORDIN	NATES						ROCK CORE BIT T2-10	01
Rig & No.	D1 ·					,455.97 ,200.8						HOLE DIA. HX/T2-101	
FLUSHING	MEDIUM	WAT	ER		ORIENTA	TION	VER	TICAL				GROUND-LEVEL +1	16.00 mP.D.
Drilling Progress Casing depth/size	Mater Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D. Fracture	Index	Samples	Reduced	Depth (m)	-egend	Grade	Zone	Descripti	on
28.5.99 Hx	date ≥ 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80 I I I 100 I I I I I I I I I I I I I I			(2, 3, 2, 3) N = 10 (3, 4, 3, 3, 5, 5, 5, 6, 8) N = 23	14 P.77 P.16 P.17 P.17 P.17 P.17 P.17 P.17 P.17 P.17	+15.00 +14.00 +13.55 +13.00 +12.00 +11.55 +11.00 +9.55 +9.00 +7.55 +7.00	2.00 2.45 3.00 4.45 6.00 6.00 6.45 7.00		V		Extremely weak, brown m completely decomposed in GRANITE. (Fine to coars	ottled white, nedium-grained
1	urbed Sample	A .	Water Sa			LOGG	ED C.	Tai	One	MAR Pie	2701	neter installed at depth of	7.15m.
SPT Liner	Sample	l	Water Lev Standard		tion Test	DATE		5.99	One	e Sta	and	ipe installed at depth of	5.50m.
U100 Und	iturbed Sample isturbed Sample	Ŧ	Permeabi	ility Test			KED E.						
	mple (70mm)	â	Piezomet	er Tip	. T	DATE		.6.99					

													HOLE NO. BH A1 SHEET 2 of 2				
DRILL / E	BORE H	HOL	E LO	G									ı	DATE from	28.05.99	_ to _	03.06.99
PROJECT	PROPO	SEL	REDE	VELOF	PME	NT O	F SOUTI	H CHIN	A ATHI	ETIC A	ASSOCI	ATIC	N -	PHASE I (A	DDITIONAL V	VORK)	
METHOD ROTARY CO-ORDIN							NATES						ROCK CORE BIT T2-101				
Dia 9 No. Dd								5,455.977 5,200.855						HOLE DIA. HX/T2-101			
FLUSHING MEDIUM WATER ORI								RIENTATION VERTICAL						GROUND-LEVEL +16.00 mP.D.			
Progress Casing depth/size	Water level/ time/ date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.a.D.	Fracture	Tests	Samples	Reduced	Depth (m)	Legend	Grade	Zone		Descrip	otion	
10.65		I	1	I			1 N = 200/0.05			E	×				(a)		
1.6.99 2.6.99 3.6.99	9.3m al 17:30 11.30m at 08:00 8.7m at 17:30 11.36m at 08:00 9.58m at 17:30	80 - 80 - 80 - 80 - 80 80 80 80 80 - 80 80 80 80 80 80 80 80 80 80 80 80 80 80 -	97 97 96 91 91 91 91 91 91 91		91 95 96	3.2		T2 T		11.73	+ + + + + + + + + + + + + + + + + + +	11		medium-gra medium sp	kish brown, s ained GRANI aced, rough n stained, dip d 30°-40°.	TE. Join Indulata	its are iry, very
	urbed Sam turbed Sam Sample	ple	l		vel Penei		Tost	LOGG	SED <u>C.</u>	a luurunduumaa ka k	REI	MAF	RKS	HOLE ENG	O AT DEPTH	OF 15.	70m.
U76 Undisturbed Sample Permeability Tes				et	CHECKED E. Ho												
Mazier Sample (70mm) Plezometer Tip Piston Sample VIn-situ Vane She						DATE 10.6.99											

PAUL Y.		0.1107	r DUG		ANI 9 EN	ICIN	EEDI	NG C	:0 I	TD	J	JOB NO
				,110	IN OLEIN	IGIN	L-1 \1		. С.		5	SHEET1 of3
DRILL / B				_							_	
PROJECT	PROPOSED	REDE	VELOP	MENT	r of sout	H CHII	NA ATH	LETIC	ASSOC	IAT	ION	- PHASE I (ADDITIONAL WORK)
METHOD	ROTARY				CO-ORDIN	NATES						ROCK CORE BIT T2-101 / TN
Rig & No.	D1					441.62 ,185.79						HOLE DIA. HX/T2-101/TN
FLUSHING N	MEDIUM	WATE	R		ORIENTA [*]	TION	VER	TICAL				GROUND-LEVEL +21.50 mP.D.
Drilling Progress Casing depth/size	Mater Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D. Fracture	Index	Samples	Reduced	Depth (m)	Legend	Grade	Zone	Description
19.6.99 Hx 19.6.99 Hx 19.6.99 20.6.99 20.6.99 20.7 Undist	NA 1	900 !	Vvater Sam Vvater Sam Permeabili	el Penetra Ity Tesi er Tip		LOGG	+11.50 ED <u>C.</u> 23 KED <u>E.</u>	- 7.00 - 8.00 - 8.45 - 9.00 - 10.00 Tai	X X X X X X X X X X X X X X X X X X X	V	RKS	Extremely weak, orangish brown spotted white, completely decomposed medium grained RANITE. (Firm, fine to coarse sandy SILT)

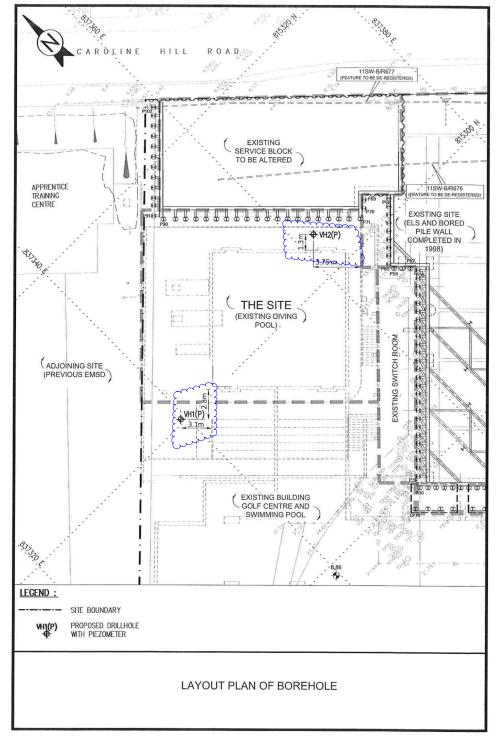
							_				_		_	.1	OB NO.			
PAI	II Y	- ITC	C	ONS	TRU	СТ	101	N & EN	IGIN	EER	NG C	0. L	TD		HOLE NO.		BH A2	
1710														5	SHEET .	2	of _	3
DRIL	L/B	ORE	HOL	E LC)G									[DATE from	19.06.99	_ to _	21.06.99
PROJE	CT	PROPO	SEL	REDE	EVELO	PME	NT	OF SOUT	н сніі	NA ATI	HLETIC	ASSOC	TAI	ION	- PHASE I (A	ADDITIONAL	WORK	()
METH	OD	ROTAF	RY				C	O-ORDI							ROCK COF	RE BIT T2-1	101 / TI	N
Rig &	No.	D1							,441.62 ,185.79						HOLE DIA.	HX/T2-101	/TN	
FLUSI	HING N	IEDIUN	1	WATE	R		C	ORIENTA	TION	VEF	RTICAL				GROUND-	LEVEL +	21.50	mP.D.
Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture	= Tests	Samples	Reduced	Depth (m)	+ Legend	Grade	Zone	Vany waak	Descrip		d medium
	10.60		70	1				200/0.05	٠		E	+ +	IV		grained GF	RANITE.	pood	
22.6.99 22.6.99	12.39 Nx	13.00m at 17:30 Dry at 08:00	80 - 80 - 80 - 8	95 96 97 98 1 996 1 96 1 96 1 96 1 96 1 92 92	95 1 96 1 97 1 98 1 1 98 1 1 99 1 1 96 1 1 97 1 1 96 1 1 1 96 1 1 1 1 1 1 1 1 1 1 1 1	95 96 97 98 56 90 88	2.8		4 72 - pla 7	+10.90 +10.10 +9.11 +8.11 +7.11 +6.60 +6.21 +5.50	10.60 - 11.40 - 12.39 - 14.39 - 15.29 - 16.00		1111/1		Strong, green mottled brodecomposion Moderately 14.90m to widely spa	eyish pink spi wm adjacent ed medium g v weak to we: 15.29m. Joir ced, smooth row, iron stai d 40°-50°.	rained ak zone ats are planar	GRANITE. e from medium to extremely
e Sn	nall Distu	rbed Sam	ple		Water Sa	mple			+	+1.75	20.00	+ +	MAF	RKS				
La SP	rge Distu	rbed Sam			Water Le				LOGG	ED C.		-						
		ample urbed Sar turbed Sa		т	Standard Permeab			on Test	DATE		3.6.99 . Ho	-						
Ma	zier Sam	ple (70mi		À	Plezomet				DATE									
PI:	ston Sam	ple		~	In-situ Va	ine S	hear 1	Test	DATE		1.6.99	-						

PAI	JL Y.	ITC	СС	ONS	TRU	СТ	101	1 & EN	IGIN	EER	ING (0. L	TD).		3	BH A2	3
DRI		ORE				_	-						_			06.99	to .	21.06.99
PROJ	ECT	PROP	OSEI	D RED	EVELO	PME	NT (OF SOUT	H CHI	ITA AV	ILETIC	ASSO	CIAT	ION	- PHASE I (ADDIT	IONAL \	WOR	()
METH	OD	ROTA	RY				С	O-ORDI	NATES						ROCK CORE BI	T T2-10	01 / T	٧
Rig &	No.	D1							,441.62 ,185.79						HOLE DIA. HX.	/T2-101/	TN	
FLUS	HING N	//EDIU	И	WATE	ER		o	RIENTA			RTICAL				GROUND-LEVE	L +2	21.50	mP.D.
Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture	Tests	Samples	Reduced	Depth (m)	Legend	Grade	Zone		Descripti	on	
		14.23m	80	98	98	98			TN			+ + - + + + - + + +			As sheet 2 of 3.			
23.6.99		at 17:30							<u> </u>	+0.20	21.30				HOLE END AT I	DEPTH (OF 21	.30m.
			l i	!							E	RF	MAF	RKS				
La	rge Distu	irbed San irbed San			Water Sa Water Le				LOGG	ED C.	Tai	-						
SI U	PT Liner S 76 Undist	Sample urbed Sa	mple	1	Standard			n Test	DATE	_23	3.6.99	-						
U		sturbed S			Permeab Piezome				CHEC	KED E.	Но	-						
M PI	azier San ston San		141)		In-situ V			est	DATE	24	.6.99	_						

DRILL / BORE HOLE		ON & EN	GINEER	NG CO	o. LTD	١.	JOB NO. HOLE NO. SHEET 1 of 2 DATE from 09.06.99 to 10.06.9
PROJECT PROPOSED R	EDEVELOPMEN	T OF SOUTH	CHINA ATH	LETIC AS	SOCIATI	ON -	PHASE I (ADDITIONAL WORK)
METHOD ROTARY		CO-ORDIN	IATES				ROCK CORE BIT T2-101 / TN
Rig & No. D1		14	,448.800 ,171.705				HOLE DIA. HX/T2-101/TN
FLUSHING MEDIUM W	/ATER	ORIENTAT		RTICAL			GROUND-LEVEL +21.50 mP.D.
Progress Casing depth/size remain least rema	Recovery % Solid core Recovery % R.Q.D.	Index	Samples Reduced Level	Depth (m)	Legend	Zone	Description
9.6.99 Hx NA at at 08:00 70		(3, 2, 3, 3, 3, 4) N = 13 (4, 5, 5, 6, 6, 8) N = 25 (7, 8, 8, 10, 11, 15, 15	+20.50 +19.50 +19.50 +18.50 +17.50 +17.50 +17.50 +14.50 +14.50 +14.50 +14.50 +14.50 +14.50 +14.50 +14.50 +14.50	- 4.00 >	X X X X X X X X X X X X X X X X X X X		Extremely weak, orangish brown spotted white, completely decomposed medium grained GRANITE. (Firm, fine to coarse sandy SILT)
Small Disturbed Sample	▲ Water Sample				REMA		
Large Disturbed Sample SPT Liner Sample U76 Undisturbed Sample	Water Level Standard Penetr		DATE 2	3.6.99	One S	tand	pipe installed at depth of 18.00m.
U100 Undisturbed Sample Mazier Sample (70mm)	Permeability Tes	U	CHECKED E	Но	-		

17/6/

PAUL '	/ IT	C C	ONS	TRU	СТ	101	N & EN	IGIN	EERI	NG C	:O. L	TD		JOB NO
DRILL /					_									DATE from
PROJECT	PROP	DSED	REDI	EVELOF	ME	NT C	OF SOUT	H CHIN	A ATH	LETIC A	ASSOCI	ATIO	- NC	PHASE I (ADDITIONAL WORK)
METHOD	ROTA	RY				C	O-ORDI	NATES						ROCK CORE BIT T2-101 / TN
Rig & No.	D1							,448.80 5,171.70						HOLE DIA. HX/T2-101/TN
FLUSHING	MEDIUM	1	WAT	ER		C	DRIENTA			RTICAL				GROUND-LEVEL +21.50 mP.D.
Drilling Progress Casing	Water level/ time/ date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.a.D.	Fracture Index	Tests	Samples	Reduced	Depth (m)	Legend	Grade	Zone	Description
*	data	70		1			(7, 11, 14, 18, 25, 31) N = 88	19	+11.05	10.45	× × × × × × × × × × × × × × × × × × ×	IV		As sheet 1 of 2. Very weak, highly decomposed medium
		80	95	95	90	2.2		T2	18.48	E 11.29	+ + - + + + - +	11		grained GRANITE. Strong, greyish pink spotted black, slightly decomposed medium grained GRANITE. (Boulder, Corestone)
13.3 Hx Nx		80	0			NI		<u>▼</u>	+9.00 +8.50 +8.30 +8.20	12.50 - 13.00 - 13.20 - 13.30	+ + + + +	IV		Very weak, highly decomposed medium grained GRANITE. Strong, greyish pink spotted black and mottled brown adjacent joints, slightly
		1 80 1	97	1 9 ₁ 7 1	97			T2	+7.20	- - - - - - - - - - - - - - - - - - -	- + + + - + + +			mottled brown adjacent joints, slightly decomposed medium grained GRANITE. Joints are medium to widely spaced, smooth planar, extremely to very narrow, iron stained dipping 20°-30° and 40°-50°.
15.7 Nx	2	80 I I	98	98	98			T2	+5.78	15.72	+ + + + - + + +			3
		80	99	99	99	1.7		TN	+5,05	16,45	+ + - + + +	11		
	8b 96 96 96 TN F + +													
	15.10m	1 8b	97	917	97			TN	+3.75	= 17.75 = =	+ + + + - +			a. A
0.6.99	at 17:30	1	<u>I</u>	1				<u> </u>	+2.85	18,65	+ +		_	HOLE END AT DEPTH OF 18.65m.
		1	1 1 1	1										
Small Disturbed Sample Large Disturbed Sample SPT Liner Sample U78 Undisturbed Sample U100 Undisturbed Sample U100 Undisturbed Sample Mazier Sample (70mm) Piston Sample Vin-situ Vane Shear Test						ı Test	DATE	23 (ED E.	6.99	REN	IAR	KS		



WING SHING CAISSON	& FOUNDATION LTD.	JOB NO.: HOLE NO.:VH1										
DRILLHOLE RECORD SHEET: 1 OF 7 TO 11/5/17												
PROJECT: South China Athletic Associa	tion — Ground Investigation at Diving Pool											
METHOD: ROTARY												
MACHINE & NO.: XY-2B	HOLE DIA.: PX/HX											
FLUSHING MEDIUM: WATER	GROUND LEVEL : +16.29 mPD.											

						10000			_							GROOM HEVEE : +10.29 III D.		
Drilling Progress	, Casing Depth/Size	Water Level/Time	Water Recovery %	Total Core Recovery %	Solid Core Recovery %	R. Q. D.	Fracture Index	Tests	No.	Samples Type Depth	Reduced	Depth (m)	Legend	Grade	Zone	Description .		
- 27/4 - - -	Px								A B	0.501.00	+16.29	_0.00 				Light greyish pink, sandy GRAVEL sized rock fragments. (FILL)		
									С	• 1.50	+14.79	1.50_				Firm, yellowish brown, slightly clayey sandy SILT		
				100				4,4,5, 7,9,7	2 3	2.60						with gravel sized rock fragments. (FILL)		
								7,9,7 Y N=28	4	• 3.05								
مليساسيناسياسياسياسياسياس				83						3.95 T2-120 4.55	+12.34	Ē				Light greyish brown and pink, subangular COBBLE sized concrete fragments.		
= 27/4 = 28/4		Dry/ 17:30 Dry/ 08:30		95					5	5.00						Medium dense, reddish brown, slightly clayey silly fine to medium SAND. (FILL)		
بانتينانسانسانسانسانسانسان	11			30				4,4,6, 8,7,10 N=31	6 7 8	6.10 6.55	+10.19	6 .10		٧		Extremely weak, reddish brown and pink, completely decomposed coarse grained GRANITE.		
								N-01		7.00						(Dense, silly fine to coarse SAND.)		
				100				4,6,8, 11,13,14	9 10 11	8.10								
								N=46	12	9.00	+7.29	9.00		V		Extremely weak, light greyish brown and [ink,		
- - - -28/4	Px			100					13		+6.29	E E10.00	P - 1 0 1 1 0 1 1 0 1 1 0 1			completely decomposed coarse grained GRANITE. (Stiff, clayey sandy SILT with gravel sized rock fragments.)		
1	Small Large			Walter No.		w	ater t			LOGGED	Poon 1	eung	REMA	ARKS				
	SPT lir U76 u			samp	• →			d tion test bility test		DATE	11/5	/17		1.	Insp	pection pit was excavated to 1.50m. cometer was installed at 16.20m.		
	U100 Mazier	undistu	ırbed		-	P		eter tip		CHECKE	M. Lo	.aw						
	Piston	sampl	e			3	unupi	P6		DATE	12/3/	17						

WI	NG		_			_	SS	_			OUN ORI		ION	LT	D.	-	JOB NO.: VH1 SHEET: 2 OF 7 DATE: 27/4/17 TO 11/5/17
PRO	JEC'	_									ind Inves		at Div	ing Po	ol		DATE <u>21/4/11</u> 10 <u>11/4/11</u>
MET	HOD	:	RO'	[AR]	7				CC	0-0	RDINA	TES		-			ROCK COREBIT: 12-120/12-101
MAC	HIN	E &	N	0.:	XY-	-2B					200	337339. 315301.					HOLE DIA.: PX/HX
FLU							TER		OI	RIEN	TATIO		VERT	CAL			GROUND LEVEL : +16.29 mPD.
_			N.	- №	- 14				_								
Drilling Progress	Casing Depth/Size	Water Level/Time	Water	Total Core	Solid Core	R. Q. D.	Fracture Index	Tes	its	No. T	mples	Reduced Level	(m) quad (d)	Legend	Grade	Zone	Description
28/4		9.50/ 17:00		100				† N=4	14,15 49 ,12, 17,17	16 17 18	• 10.10 • 10.55 • 11.00 • 12.10 • 12.55				V		Extremely weak, reddish brown and pink, completely decomposed coarse grained GRANITE. (Very dense, silty fine to coarse SAND.)
28/4		11.05 08:30	1	100	100	100	1.7		15,17,17 19								Strong, greyish pink, spotted with black, slightly decomposed coarse grained GRANITE with very widely to extremely very widely spaced, rough planar, extremely narrow, iron stained joints, dipping at 0°-10°.
				95	78	42	>20	4	ì		15.10 -120 + 16.28		=15.10 = = = = = = = = = 16.48	+ + + + + + + + + + + + + + + + + + + +	IV		Weak to moderately weak, light greyish brown an pink, mottled with black, highly decomposed coarse grained GRANITE with extremely to very closely spaced, rough undulating and planar, narrow, iron stained joints.
				97	81	67					120		- - - - - - - - - - -	+ + + + + + + + + + + + + + + + + + + +	11		Strong, greyish pink, spotted with black, slightly decomposed coarse grained GRANITE with very widely spaced, rough planar, extremely narrow, iron stained joints, dipping at 0°-10°.
	100 100 100 0.6												/	No recovery (inferred as completely to highly			
	19.03	19.03 100 100 100 100 12-118.66 -2-124 18.83 + + 1											v/ /n ·		decomposed GRANITE.) Moderately weak to moderately strong, light greyish brown and pink, mottled with black,		
	Нх			100	100	100	3.8			T2	19.03 19.56	-2.74	19.03	+ +	V/IV IV/III V/IV	Ľ	highly to moderately decomposed coarse grained GRANITE with closely spaced, rough undulating and planar, extremely norrow, iron stained joints dipping at 0"-10" & 40"-50".
	Hx Small				1000			ample able			LOGGED	Poon	F 20 Leung		ARKS		See sheet 3 of 7
	Large disturbed sample Water table SPT liner sample Spt liner sample Permeability test U100 undisturbed sample Piezometer tip CHECKED M. Law																
P/S	Mazier Piston	sampl	le e		ć	st	tandpi	ре			DATE	12/5	/17				

WING SHING CAISSON	& FOUN	DAT	[0N	LT	'n.	1	JOB NO.:					
DRILLHOLE			SHEET: 3 OF 7 DATE: 27/4/17 TO 11/5/17									
PROJECT: South China Athletic Associa												
METHOD: ROTARY												
MACHINE & NO.: XY-2B		337339.8 315301.3	-				HOLE DIA.: PX/HX					
FLUSHING MEDIUM: WATER			GROUND LEVEL : +16.29 mPD.									
ing page of the control of the contr	Samples	lced 1	р (m)	pq	9		Description					

THO	DIIII	iu .	WILL.	010.	141 .	""					, 2111				GROUND LEVEL: +16.29 MPD.
Drilling Progress	. Casing Depth/Size	Water Level/Time	Water Recovery %	Total Core Recovery %	Solid Core Recovery %	R. Q. D.	Fracture Index	Tests	Samples	Reduced	S Depth (m)	Legend	Grade	Хопе	Description
-4/5 -	Hx			0				50/0.03	No. Type Depth 21 20:26 22 20:26 20:26	-4.19	20.48		V/IV III/II	\neg	Extremely weak to very weak, greyish pink, mottled with black, completely to highly decomposed coarse grained GRANITE.
4/5 5/5		10.10 17:30		100	100	100			T2-101 		E	++	""/"	/	(Very dense, sandy GRAVEL sized rock fragments.) Moderately strong to strong, greyish brown and
= 3/3 		11.10 08:30		100	100	100	1.4		T2-101		لسلسلسا	+ + + + + + + + + +			pink, mottled with black, moderately to slightly decomposed coarse grained GRANITE with widely spaced, rough planar, very narrow to extremely narrow, iron stained joints, dipping at 0°-10°.
				94	61	0	14.6 NI >20		22.67 T2-101 23.57	-6.38 -7.28	22.67 - - 23.57	++++	IV/III	_	Moderately weak, greyish brown and pink, spotted with black, highly to moderately decomposed coarse grained GRANITE with extremely to very closely spaced, rough and undulating, moderately
5/5															narrow to narrow, iron stained joints. Wash boring
									25.50	-9.21	25.50	+ +	n./m		Moderately weak to moderately strong, greyish brown and pink, mottled with black, highly to
				93	60	16	>20		T2-101 26.25	-9.96	26.25	+ + +	IV/III		moderately decomposed coarse grained GRANITE with extremely to very closely spaced, rough undulating and planar, narrow, iron stained joints.
Ē									+ 26.75	-10.46	<u>-</u> 26.75				Wash boring
				100	100	100			T2-101 			++			Strong, greyish pink, mottled with black, slightly decomposed coarse grained GRANITE with medium and widely spaced, rough planar, very narrow to
		9.85/		100	100	100	2.1		T2-101			+++++++++++++++++++++++++++++++++++++++			extremely narrow, iron stained joints, dipping at 0°-10°.
-5/5 -6/5		17:30 11.00							+	-12.18	28.47	+++	III		Moderately strong, greyish brown and pink,
		08:30		100	95	92	>20		T2-j101		E	+ +			mottled with black, moderately decomposed coarse grained GRANITE with closely to medium and medium to widely spaced, rough undulating and
	Hv						4.6				E	+++++++++++++++++++++++++++++++++++++++			planar, very narrow to extremely narrow, iron stained joints, dipping at 0"-10", 20"-30" & 40"-50".
•	Small						ater s	sample able	LOGGED	Poon :	Leung	REM	IARKS		
‡	Large SPT lin			iample	4			d tion test	DATE	11/5	/17				
	U76 u				-	P	ermed	bility test							
	U100 Mazier			sam		-	iezom tandpi	eter tip	CHECKE	M. L 12/5					
	Piston					7 2	ισπαρι	he	DATE	12/3	/ //				

WI		Γ	R			H()L	E I	RE	CORI)				1	HOLE NO.: VH1 SHEET: 4 OF 7 DATE : 27/4/17 TO 11/5/17
PRO	JEC'	: S	South	Chi	na A	thlet	ic Ass	sociation	ı – Gı	round Inves	tigation	at Divi	ing Po	ol		
MET	HOD	:	ROI	'ARY					CO-	ORDINA	TES					ROCK COREBIT: 12-120/12-101
MAC	HINI	. &	N	0. :	XY-	-2B					337339.8 315301.3					HOLE DIA.: PX/HX
FLU							TER		ORII	ENTATIO		VERT	ICAL.			
r LO									_			, 2111		_		GROUND LEVEL : +16.29 mPD
Drilling Progress	Casing Depth/Size	Water Level/Time	Water Recovery %	Total Core Recovery %	Solid Core Recovery %	R. Q. D.	Fracture Index	Tests		Samples	Reduced 16.52 16.64 16.64	Depth (m)	Legend	Grade	Zone	Description
6/5	Hx			100		82	4.6 NI		NO.	Type Depth 12-10-30.03 30.20	-13.74 -13.91	30.23	+ -	ıV)ıı	7	As sheet 3 of 7 Moderately weak to moderately strong, greyish
				100	100	100	0			30.50 T2-101	-14.21	=30.50 = = = = = = = = =	+ + - + + - + + -	11	$\backslash\!\!\!/$	brown and pink, spotted with black, highly to moderately decomposed coarse grained GRANITE with extremely to very closely spaced, rough undulating and planar, narrow, iron stained joints. Wash boring
				100	100	100	0.7			31.85			+ + - + + - + + - + + - + + -			Strong, greyish pink, spotted with black, spotted with black, slightly decomposed coarse grained GRANITE with very widely spaced, rough planar, extremely narrow, iron stained joints, dipping at 0"-10".
-				_						→ 33.33		_	+ +		-	Wash boring
				100	100	100	0.6			33.77 T2-101	-17.48	=33.77 = = = = = = =	+ + + + + + + + + + + + + + + + + + +	II		Strong, greyish pink, spotted with black and while, slightly decomposed coarse grained GRANI with widely spaced, rough planar, extremely narrow, iron stained joints, dipping at 0°-10°.
				98	87	80	NI 7.3			35.28 T2-101 35.88	-19.18 -19.59	35.40 35.47 35.88	+ +	II		From 35.40m to 35.47m, highly decomposed GRANITE.
				100	100	82	6.2			36.07 T2-101 36.73	-19.78	36.07 36.73	+ +	II	_	Wash boring Strong, greyish pink, spotted with black and white, slightly decomposed coarse grained GRANI with closely spaced, rough undulating and plana very narrow to extremely narrow, iron stained
6/5 8/5		9.05/ 17:00 11.10 08:30	Y	100	90	61	14.3			37.28 T2-101 37.77	-20.99 -21.57	37.28 37.77	+ +	=		joints, dipping at 0°-10° & 10°-20°. Wash boring Moderately strong, greyish brown, mottled with black and white, moderately decomposed coarse
											-21.89		+ + + + + + + + + + + + + + + + + + + +	=	/	grained GRANITE with closely spaced, rough undulating and planar, narrow to very narrow, iron stained joints, dipping at 0"-10", 10"-20" & 40"-50". Wash boring Moderately strong, greyish pink, spotted with blac
- 8/5	Hy			100	99	99	1.0			T2-101	-22.92	39.21	+ + + + + + + + + + + + + + + + + + + +	111/11		and white, moderately decomposed coarse graine GRANITE with closely and medium spaced, rough undulating and planar, narrow to very narrow, in stained joints, dipping at 0°-10° & 20°-30°.
\$	Small disturbed sample Water sample Large disturbed sample Water table Loggi											leung	REM	ARKS		See sheel 5 of 7

WING SHING CAISSON	& FOUNDATION LTD.	JOB NO.: HOLE NO.:VH1										
DRILLHOLE RECORD SHEET: 5 OF 7 TO 11/5/17												
PROJECT: South China Athletic Association – Ground Investigation at Diving Pool												
METHOD: ROTARY												
MACHINE & NO.: XY-2B	E 837339.884 N 815301.306	HOLE DIA.: PX/HX										
FLUSHING MEDIUM: WATER	ORIENTATION: VERTICAL	GROUND LEVEL : +16.29 mPD.										

															_	
Drilling Progress	Casing Depth/Size	Water Level/Time	Water Recovery %	Total Core Recovery %	Solid Core Recovery %	R. Q. D.	Fracture Index	Tests	Sam;		Reduced	Depth (m)	Legend	Grade	Zone	Description
-8/5 - -	Hx			100		99			T2-10)1		40	+ +	111/11		Moderately strong to strong, greyish brown and pink, spotted with black, moderately to slightly decomposed coarse grained GRANITE with closely
				100	100	100	4.5		T2-10	40.72			+ + + + + + + + + + + + + + + + + + + +			to medium and medium to widely spaced, rough planar, very narrow to extremely narrow, iron stained joints, dipping at 0°-10° & 20°-30°.
السلسلة				100	100	100	0.9		T2-10	·42.21			+ + + + + + + + + + + + + + + + + + + +			
										43.27		3 43.27 E				Wash boring
Ē				93	73	0	NI		T2-11	44.23 1 44.53	-27.94	44.23	++	IV/III		Moderately weak to moderately strong, greyish brown and pink, mottled with black, highly to
				100	96	83	5.7		T2-10	01			+ + + + + + + + + + + + + + + + + + + +			moderately decomposed coarse grained GRANITE with very closely to closely spaced, rough undulating and planar, narrow to very narrow, iron stained joints.
				_			>20		+	45.83	-29.5	45.83	+			Wash boring
andarahandarahandarahandarahandarahandarahandarahandarahandarah				100	95	88	> 20		T2-11	46.46	-30.17 -30.2	46.46	+ + + + + + + + + + + + + + + + + + + +	V /		Moderately strong to strong, greyish brown and pink, spotted with black and white, moderately to slightly decomposed coarse grained GRANITE with closely and medium spaced, rough undulating and planar, very narrow, iron stained joints, dipping
				100	97	86	>20		T2-10				+++++++++++++++++++++++++++++++++++++++			at 0"-10" & 10"-20". From 46.46m to 46.54m, highly decomposed GRANITE.
- - - - - - - - - - - - - - - - - - -		10.20 17:30)	97	78	47	7.5 >20 15.0		T2-1	- 49.07 01 - 49.85		49.45	+++++++++++++++++++++++++++++++++++++++	IV/III		From 49.45m to 49.85m, highly to moderately decomposed GRANITE.
9/5	Hx	10.95 08:30	led a	ample		u		ample		43.03		50	pri	IARKS		Wash boring
1	Large					E W	ater t	able	LC	OGGED .	Poon	Leung	REN	CARA		
Ď	SPT lir				1	S	tandar enetra	d tion test	D	ATE _	11/5	/17				
	U76 u				-	_		bility test	_	HECKEL	M. L	αw				
	U100 Mazier			sam			iezom tandpi	eter tip			12/5					
P/S	Piston	samp	le			7 3	-anopi		D.	ATE _	12/5	, ,,				

MACHINE & NO.: XY-2B E 837339.884 N 815301.306 HOLE DIA.: PX/HX FLUSHING MEDIUM: WATER ORIENTATION: VERTICAL GROUND LEVEL: +16.29 Tests Samples Tests No. Type Depth No. Type Depth No. Type Depth Wash boring			Ι	R	IL	L	H()L	E	R	EC	ORI)					SHEET: 6 OF 7 DATE: 27/4/17 TO 11/5/17
### ACHINE & NO.: XY-28 RACHINE & NO.: XY-28 RACHINE RESTRICT RESTRI	PRO	IEC]	: S	outh	Chi	na A	thlet	ic As	sociati	ion –	- Grou	nd Inves	tigation	at Div	ing Po	ol		
MACHINE & NO.: W-28 N 815301.306 HOLE DIA.: PX/HX FLUSHING MEDIUM: WATER ORIENTATION: VERTICAL GROUND LEVEL: +16.29 Description Description Description Description Description No. Type Depth No. Type Depth No. Type Depth Samples Sa	METI	HOD	:	ROI	'ARY					C	0-01	RDINA	TES					ROCK COREBIT: 12-120/12-101
Sample S	MACI	HINI	. &	N) ·	YY.	-2R											HOLE DIA.: PX/HX
Samples Samp								mpp.	\dashv	0.	DIEN			Haraca and an	TOAT			The state of the s
10.15	FLUS	SHIN						TER		0.	RIEN	TATIC	/IN :	VEKI	ICAL			GROUND LEVEL : +16.29 mP
10.15/ 17.00 10.	Drilling Progress	Casing Depth/Size	Water Level/Time	Water Recovery %	Total Core Recovery %	Solid Core Recovery %	R. Q. D.	Fracture Index	Tes	its			Reduced	Depth	Legend	Grade	Zone	Description
100 100 100 100 2.1	9/5 - - - - - - - - - - - - - - - - - - -	53.28 Hx	17:00 11.00		100	94	38	11.4			12 <u>2</u> 12- -	53.18 53.28 101 = 54.07	-36.89 -36.99	53.18	+ +	=		Moderately weak, light greyish brown and pink, highly decomposed coarse grained GRANITE with extremely to very closely spaced, undulating an planar, narrow, iron stained joints. Moderately strong, pinkish brown, spotted with black, moderately decomposed coarse grained
10/5 17:30 100 100 96 12-101			0.95/		100	96	91	4.2			T2-	55.36 -101 - 56.70 -101		ահումումումումումումումումումումումո	* + + + + + + + + + + + + + + + + + + +			planar, narrow to very narrow, iron and occasional chlorite stained joints, dipping at 0°-10', 10'-20', 30'-40' & 40'-50'. Moderately strong to strong, greyish brown and pink, mottled with black and white, moderately slightly decomposed coarse grained GRANITE wit closely and medium spaced, rough undulating planar, very narrow to extremely narrow, iron stained joints, dipping at 0'-10', 10'-20' &
Small disturbed sample Water sample Large disturbed sample Water table Loggen Poon Leung REMARKS	_10/5 11/5		17:30 11.15		100	100	96				T2-				+ +			
Large disturbed sample Water table Standard			disturb									LOGGED	Poon		REM	ARKS		I
U76 undisturbed sample Permeability test LI100 undisturbed sample Piezameter tin CHECKED M. Law	0 :	SPT lin	er sai	mple		1	, Si	tandar enetra	rd tion te			DATE _	11/5	/17				

WING SHING CAISSON	& FOUNDATION LTD.	JOB NO.:
DRILLHOLE	RECORD	SHEET: 7 OF 7 DATE: 27/4/17 TO 11/5/17
PROJECT: South China Athletic Associa	tion — Ground Investigation at Diving Pool	
METHOD: ROTARY	CO-ORDINATES	ROCK COREBIT: 12-120/12-101
MACHINE & NO.: XY-28	E 837339.884 N 815301.306	HOLE DIA.: PX/HX
FLUSHING MEDIUM: WATER	ORIENTATION: VERTICAL	GROUND LEVEL: +16.29 mPD.
Drilling Progress Cosing Depth/Size Fater Level/Yime Recovery X Total Core Recovery X Solid Core Solid Core Recovery X Solid Core So	sts Samples (H) (H) Page 1 (H) Pa	Description

Drilling Progress	Casing Depth/Size	Water Level/Time	Water Recovery %	Total Core Recovery %	Solid Core Recovery %	R. Q. D.	Fracture Index	Tests	amples ype Dept	h	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
11/5		9.50/ 14:00		100	100	96	2.1		101	T	.44.20	60.58	+ +	111/11		As sheet 6 of 7
	Small (disturb	ed s	ample		W	uter s	ample		P			REMM	ARKS		End of hole at 60.58m.
_	Large (SPT lin			ample	, T		ater to andar enetra	able d lion test	LOGGED DATE		oon L 11/5/					
	U76 ur U100 u	undistu	rbed		ple 🛔	Pi	ezome	oility test eter tip	CHECKE	D _	M. La	w				
Ø P/S	Mazier Piston	sample sample	e e		2	St	andpi	oe .	DATE		12/5/	17				

		~			_										_	JOB NO.:
W.	ING	S	HI	NG	('Al	SS	0N	& .	FOUN	DAT	ION	LT	D.		HOLE NO.: VH2
		Ι	R	ZIL	LI	H)L	E	RE	CORI)					SHEET: 1 OF 6 DATE: 18/5/17 TO 26/5/17
PRC	JECT	r: F	rop	osed	New	Sou	th St	and at	South	China Athle	etic Ass	ociation	on I.	L. No	. 90	41 at Caroline Hill Road, Hong Kong.
MET	HOD	:	RO'	ľARY	7				CO-	ORDINA						ROCK COREBIT: 12-120/12-101
MAC	HINI	Ξ &	N	0.:	хү-	-2B					337361.7 315303.6					HOLE DIA.: PX/HX
FLU	SHIN	IG 1	ME]	DIU.	М:	WA	ATER		ORII	ENTATIO	N:	VERT	ICAL			GROUND LEVEL : +16.32 mPD.
Drilling Progress	Casing Depth/Size	Water Level/Time	Water Recovery %	Total Core Recovery %	Solid Core Recovery %	R. Q. D.	Fracture Index	Test		Samples Type Depth	Reduced	Depth (m)	Legend	Grade	Zone	Description
-18/5 - - - -	Px			0				50/0.	A B	• 0.50 • 1.00	+16.32 +14.52	المسلسلين				Greyish brown, angular COBBLE and GRAYEL sized concrete fragments. (FILL)
- - - - - - - - - - - - - - - - - - -		Dry/ 17:30 Dry/ 08:30		82				¥ 200/0	0.02 2	T2-120 2.90		سلسلسلس				Brownish grey, angular and subangular COBBLE and BOULDER sized rock and concrete fragments. (FILL)
				95						T2-120 + 4.30 T2-120 + 4.90	+12.72					Concrete with occasional rock fragments.
				100				3,4,7 8,10 N=3	3 7, 4 ,10 5 5 6	4.90 5.00 6.10 6.55	+9.32	7.00		٧		Extremely weak, reddish brown and pink, completely decomposed coarse grained GRANITE. (Dense, slightly clayey silty fine to medium SAND.)
				100				447	7 8	8.10	T9.32			V		Extremely weak, yellowish brown and pink, completely decomposed coarse grained GRANITE. (Dense to very dense, silly fine to coarse SAND.)
								4,4,7 9,12 1 N=4	13 9							
19/5	10.00 Dry/ 1000 11 11 11 11 11 11 11 11 11 11 11 1															
	Small disturbed sample Water sample Water table Standard									DATE CHECKER	27/5 M. L	/17 aw	REM			ection pit was excavated to 1.50m. ometer was installed at 17.50m.
Ø P∕S	Mazier Piston	samp sampl	le le		Ê	S	tandpi	ре		DATE .	29/5	/17				

WING SHING CAISSON	& FOUNDATION LTD.	JOB NO.: HOLE NO.:VH2
DRILLHOLE	RECORD	SHEET: 2 OF 6 DATE: 18/5/17 TO 26/5/17
PROJECT: Proposed New South Stand	at South China Athletic Association on I.L. No. 9	041 at Caroline Hill Road, Hong Kong.
METHOD: ROTARY	CO-ORDINATES	ROCK COREBIT: 12-120/12-101
MACHINE & NO.: XY-2B	E 837361.738 N 815303.647	HOLE DIA.: PX/HX
FLUSHING MEDIUM: WATER	ORIENTATION: VERTICAL	GROUND LEVEL: +16.32 mPD.

Sample S		_			_										_		
10,13,14 13	Drilling Progress			Water Recovery %	Total Core Recovery %	Solid Core Recovery %	R. Q. D.	Fracture Index	Tests	No. T	Type Depth	Reduced		Legend		Zone	
Solution -20/5 	nx	Dry/ 08:30						10,13,14	13	10.55			SEC	٧		As sheet 1 of 6	
Strong, greyish pink, spotted with black and white, slightly decomposed coarse grained GRANITE with widely spaced, rough planar, extremely narrow joints. 19,47					90												
Strong, greyish pink, spotted with black and white, slightly decomposed coarse grained GRANITE with widely spaced, rough planar, extremely narrow joints. 19,47									13,15,17	17	• 12.55						
Strong, greyish pink, spotted with black and white, slightly decomposed coarse grained GRANITE with widely spaced, rough planar, extremely narrow joints. 19,47	lundum.				100												
Strong, greyish pink, spotted with black and white, slightly decomposed coarse grained GRANITE with widely spaced, rough planar, extremely narrow joints. 19,47	Lundon								7,10,15, 17,22,25 N=79	21	14.55						
Strong, greyish pink, spotted with black and white, slightly decomposed coarse grained GRANITE with widely spaced, rough planar, extremely narrow joints. 19,47					95				1 = 10 = 1								
Strong, greyish pink, spotted with black and white, slightly decomposed coarse grained GRANITE with widely spaced, rough planar, extremely narrow joints. 19,47									50/0.04 200/0.04	25		+0.22	= 16.10 = -	0.0			completely decomposed coarse grained GRANITE. (Very dense, sandy GRAVEL sized rock
200/5 17.30 10.95 10.9					95				-					0.0.0.0.0			ii ugineiis.)
19.47 3.10 9.42 + 19.47 19.47	20/5 22/5		17:30 10.95	1			_		50/0.03 200/0.04		18.61	-2:29 -2:36	18.61 18.68	0 .0	IV II		slightly decomposed coarse grained GRANITE with
Small disturbed sample Large disturbed sample SPT liner sample U76 undisturbed sample U100 undisturbed sample U100 undisturbed sample Personneter tip U100 undisturbed sample Piezometer tip Mater sample LOGGED Poon Leung DATE 27/5/17 CHECKED M. Low CHECKED M. Low DATE 29/5/17	22/5		08:30		100	100	90	2.3				-3:10 -3:15	19:47	. 0.	v/iv		joints. From 18.61m to 18.68m & 19.42m to 19.47m, highly to moderately decomposed GRANITE.
Large disturbed sample Water table SPT liner sample Standard penetration test U76 undisturbed sample Permeability test U100 undisturbed sample Permeability test U100 undisturbed sample Piezometer tip Mazier sample Standarjee DATE 27/5/17	•	Small	disturb	ed s	ampl	. 4	W	ater s	sample			D	. 20	REM	ARKS	_	200 011001 0 01 0
U76 undisturbed sample Permeability test □ U100 undisturbed sample Piezometer tip □ Mazier sample Standpipe Patr 29/5/17	\$						E W	ater t	able		LOGGED	Poon	Leung				
U100 undisturbed sample Piezometer tip CHECKED M. Law Mazier sample A Standpipe DATF 29/5/17		SPT lir	ner sar	mple		1	, S	tanda: enetra	d tion test		DATE	27/	5/17				
☑ Mazier sample A Standpipe DATE 29/5/17						-	-										
	P23	Tree division bed sample Tree meter up															
						Č	j S	tandpi	pe		DATE _	29/	0/1/				

W.	ING	_				_	$\frac{155}{15}$				OUN OR		ION	ĽI	Ъ.	\downarrow	JOB NO.:
PRO	JEC'	_							9.0000		1200 0000000		cociation	on I	I No	_	DATE : 18/5/17 TO 26/5/17 41 at Caroline Hill Road, Hong Kong.
10.79	HOL			rary		-					RDINA		ocialioi	011 1		. 30	ROCK COREBIT: T2-120/T2-101
	HIN				_	_2D		_				837361.					HOLE DIA.: PX/HX
	SHI						מיזיי		OI	SIEN	NTATIO	815303.	VERT	ICAT		_	
FLU	SIII	_		-	_	-	LIEN		- 01		VIAII	,	VERT	ICAL			GROUND LEVEL : +16.32 mPI
Drilling Progress	Casing	Water Level/Time	Water Recovery %	Total Core Recovery %	Solid Core Recovery %	R. Q. D.	Fracture Index	Tes	sts		mples	Reduced	Ospth (m)	Legend	Grade	Zone	Description
22/5 - - - - - - - - - - - - - - - - - - -		10.10, 17:30 11:10, 08:30		93		40	0 12.9 NI >20	50/ 200/	0.03 /0.03	129 30 T2	22.87 -101 -24.41 -25.11 -25.32 -101 -26.15	-6.55 -8.48 -8.79 -9.00	22.87 		V/IV		Extremely weak, yellowish brown and pink, completely to highly decomposed coarse grained GRANITE. (Very dense, sandy GRAVEL sized rock fragments.) Strong, greyish pink, spotted with black and whit slightly decomposed coarse grained GRANITE with widely to very widely spaced, rough planar, extremely narrow joints. From 24.80m to 25.11m, highly to moderately decomposed GRANITE. Wash boring Weak, light greyish brown and pink, highly decomposed coarse grained GRANITE with extremely to very closely spaced, rough undulating and planar, moderately narrow to narrow, iron stained joints.
- 23/5	Hx Small	disturb	ed s	ample		Wash	oter s	ample			LOGGED	Da V	30	REM	ARKS		Wash boring

CHECKED M. Law

DATE 29/5/17

■ U100 undisturbed sample Piezometer tip

≜ Standpipe

WING SHING CAISSON	& FOUNDATION LTD.	JOB NO.: VH2
DRILLHOLE	RECORD	SHEET: 4 OF 6 DATE: 18/5/17 TO 26/5/17
PROJECT: Proposed New South Stand	at South China Athletic Association on I.L. No. 9	041 at Caroline Hill Road, Hong Kong.
METHOD: ROTARY	CO-ORDINATES	ROCK COREBIT: 12-120/12-101
MACHINE & NO.: XY-2B	E 837361.738 N 815303.647	HOLE DIA.: PX/HX
FLUSHING MEDIUM: WATER	ORIENTATION: VERTICAL	GROUND LEVEL: +16.32 mPD.

WIN	NG								k FOUN ECORI		ION	LI	D.	+	JOB NO.: VH2 SHEET: 5 OF 6 DATE: 18/5/17 TO 26/5/17
PROJ	ECT	r: F	rop	sed	New	Sou	th St	41 at Caroline Hill Road, Hong Kong.							
METH MACH		-		'AR' O.:	_	-2B			ROCK COREBIT: T2-120/T2-101 HOLE DIA.: PX/HX						
FLUS	HIN	IG 1	ME:	DIU	М:	W	ATER		GROUND LEVEL : +16.32 mPD						
	Casing Depth/Size	Water Level/Time	Water Recovery %	Total Core Recovery %	Solid Core Recovery %	R. Q. D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
23/5	Нх								74 .		40				Wash boirng

REMARKS

LOGGED Poon Leung

DATE 27/5/17

CHECKED M. Law

DATE ____29/5/17

\$ Large disturbed sample 🗷 Water table

U76 undisturbed sample Permeability test

■ U100 undisturbed sample 🛔 Piezometer tip

SPT liner sample

Mazier sample
P/S Piston sample

Standard penetration test

A Standpipe

W	ING	S	HI	NG	· (CA	ISS	0N	&	F(OUN	DAT	ION	LT	D.		JOB NO.: VH2
		_	_		_		OL				ORI					+	SHEET: 6 OF 6
PRO	JEC'												ociation	on I	l No		DATE : 18/5/17 TO 26/5/17 41 at Caroline Hill Road, Hong Kong.
	HOD			rar'		-		una ,			RDINA		ooiaiioi	. 011 1.	L. 110	. 50	ROCK COREBIT: T2-120/T2-101
			_		_			_				337361.7	38				2000
MAC	14 010000.047													HOLE DIA.: PX/HX			
FLU	JSHING MEDIUM: WATER ORIENTATION: VERTICAL														GROUND LEVEL: +16.32 mPD.		
Drilling Progress	Casing Depth/Size	Water Level/Time	Water Recovery %	Total Core Recovery %	Solid Core	R. Q. D.	Fracture Index	Те	sts		mples	Reduced	Depth (m)	Legend	Grade	Zone	Description
24/5	50.32 Hx				0.7 [4]						pe Depth		_ 50	_	_		Wash boring
Ē				80	28	0	NI			T2-	50.32 50.57	-34.25	50.57	+ -	IV III	\neg	Weak, light greyish brown and pink, highly decomposed coarse grained GRANITE with
		40.50	,	100	98	96				T2-	101			+ +			extremely to very closely spaced, rough undulating and planar, moderately narrow to narrow, iron stained joints.
24/5 25/5	-	10.50 17:00 11.10	1				-				- 51.90		Ē	++			Moderately strong, light greyish brown and pink, spotted with black, moderately decomposed coarse grained GRANITE with closely and medium spaced,
		08:30				Linera.	6.0							+ + + + + +			rough undulating and planar, very narrow to extremely narrow, iron stained joints, dipping at
				98	96	85				T2-	101		Ē	† † † †			0°-10°, 20°-30°, 50°-60°, 70°-80° & subvertical.
											F7.45		Ē	+ +			
										7	−53.45		Ē	++			
				100	95	54	>20			T2-	101		Ē	++			
_													Ē	++			
-										-	-54.94		F	+ +			
				100	100	60				T2-	101		E	+ + + + + +			
Ē.,		9.80/					5.8						Ē	+ +			
-25/5 -26/5	1	17:30 11.05	Y							-	-56.44		E	+ +			
		08:30		100	100	97				т2	101		E	+ +			
		9.50/		100		,				12			Ē	++			
26/5		11:30								ļ	57.90	-41.58	57.90	+ + -			
<u> </u>													E				End of hole at 57.90m.
													E				
Ē													E				
													E				
•	Small						later s		•		LOGGED	Poon 1	Leung	REM	ARKS		
\$ 	Large SPT lir			sampl	е -	S	tandar enetra	d tion t			DATE _	27/5	/17				
	U76 u U100				-	_	ermed				CHECKED	M. L	JW WE				
Ø P/S	Mazier Piston	samp	le				tandpi		r		DATE _	29/5					

														JOB NO
Tal	k Fo	οЕ	ngir	iee	rin	g	&	Cons	struct	ion (Co.,	Ltd		SHEET 1 of 4
														DATE from <u>09.11.24</u> to <u>16.11.24</u>
									RILLI	HOLI	E R	ECO	RI)
PROJ	ECT	PR	OPOSE	DA&	A W	ORK	S T	O STEEL	GOLF FE	NCE AT	SOUT	H CHIN	A A	THLETIC ASSOCIATION
/ETH	OD	Rot	ary							RDINAT				ROCK CORE BIT AT3
/ACH	IINE &	NO.	XY-2	B.						,431.38 5,185.49				HOLE DIA. PW, HW
LUS	HING N	MEDIUN	/ Wat	er			C	RIENTA	TION	VERT	ICAL			ELEVATION +21.71 m P.D.
			%	8	(%)		(m)			T				
Progress	Casing depth/size	Water level/ time/ date	Water Recovery Total core	Recovery (%	Recovery (%)	R.Q.D. (%)	Fracture Index (No./	Tests & Instrument -ation	Samples	Reduced Level (m P.D.)	Depth (m)	Legend	Grade	Description
0.11.24	PW HW							18, 18 18, 18 15, 21, 24, 8 N = 21 18, 18 15, 21, 24, 18 N = 50	15 13 14 14 15 10 10 10 10 10 10 10 10 10 10 10 10 10	+19.21 +19.76 +19.21 +19.76 +19.21 +16.21 +16.11 +17.66 +17.21 +16.21 +16.21 +14.21 +14.31 +13.66 +13.21 +13.66 +13.21	1.50 1.50 1.50 2.50 3.50 3.80 4.05 4.50 6.50 6.50 8.50		\ \ \	Extremely weak, yellowish brown, spotted black and white, completely decomposed, medium to coarse grained GRANITE. (Slightly clayey, silty, fine to coarse SAND with some, subangular, fine gravel.) Extremely weak, yellowish brown, spotted black and white, completely decomposed medium to coarse grained GRANITE. (Slightly silty, fine to coarse SAND, with some, subangular, fine to medium gravel.
SP1 U76	all Disturi ge Disturi Liner Sa Undistur	ped Samp ped Samp mple bed Samp	ele	Star Peri	er Lev ndard I meabil ndpipe	Penet Ity Te /Plezo	st imete	r Tip	REMARK	n pit was				
Pist	eier Samp on Samp er Sampl		1	N.A. = N N.I. = No N.R. = N	on-inta	ct	e.		DATE	D BY _C	8.11.24		HEC ATE	19.11.24

Tal	k Fo	о Е	ng	gine	erin	g	&	Con	struct	ion	 Со.,	Ltd		JOB NO. HOLE NO. SHEET 2 of 4 DATE from 09.11.24 to 16.11.24
									RILLI	HOLI	E R	ECO	RI	D
PROJ	ECT	PR	OPC	OSED A	& A W	ORI	(S T	O STEEL	GOLF FE	NCE AT	SOUT	н снім	A A	ATHLETIC ASSOCIATION
METH	lOD	Rot	ary							RDINAT				ROCK CORE BIT AT3
MACH	HINE &	NO.	2	XY-2B					N 81	7,431.38 5,185.49				HOLE DIA. PW, HW
FLUS	HING I	MEDIU	И	Water			C	RIENTA	ATION	VERT	ICAL			ELEVATION +21.71 m P.D.
Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery (%)	Total core Recovery (%)	Solid core Recovery (%)	R.Q.D. (%)	Fracture Index (No./m)	Tests & Instrument -ation	Samples	Reduced Level (m P.D.)	Depth (m)	Legend	Grade	Description
13 9.11.24		dry al 18:00 dry al al 08:00		100				5, 5 7, 7, 10, 17, 21 N = 55 50/20mm 1, 200/30mm 200/30mm 200/30mm	23	+11.66 +11.21 +10.11 +10.11 +9.66 +9.21 +8.11 +8.06	-10.05 -10.50 -11.50 -11.50 -12.05 -12.50 -13.50 -13.65 -13.65 -14.50		V	Weak, dark pinkish brown, spotted black and white, highly decomposed, medium to coarse grained GRANITE. (Sandy, subangular, fine to coarse GRAVEL.)
.5 .8 .8 .12.11.24 .9		5,36m at 16,00 14,61m 08,00		100 100 100	1000	100	1.4 0.3 2.3 8.3 N.R.		AT3	+5.26 +3.69 +3.69 +3.69 +2.73 +2.73 +2.27 +1.95	15.00 15.10 16.15 10 16.45 17.82 18.98 19.16	000000000000000000000000000000000000000	II III III V	18.98-19.16m: Moderately strong, moderately decomposed. 19.44-19.76m: Moderately strong, moderately decomposed. 19.52-19.76m: No recovery, inferred to be
LEGEN			-1-	Y-ZKI					REMARY	-				+
Smill Larger SPT U76 U10 Maz	all Distur ge Distur I Liner Sa i Undistu 10 Undist	rbed Sam urbed Sam le (74mm	ple iple mple	↓ Si	fater Lev tandard l ermeabll tandpipe -situ Var Not App Non-inta	Penel Ity To IPiezo ne Sh Olicab ct	est omete car Te	r Tlp	LOGGE	D BY _C	:.H. Lau 8.11.24		HEC	CKED BY B.C. Tam 19.11.24

															JOB NO.
l٦	Га	k Fo	o E	nair	eer	ind	d	&	Cons	struct	ion (Co	Ltd		HOLE NO. <u>DHF1</u> SHEET 3 of 4
							כ		00.,0		.011	oo.,			DATE from09.11.24 to16.11.24
									D	RILLI	HOLE	E R	ECO	RI	D
Р	RO	JECT	PR	OPOSEI) A & A	wo	RH	(S T							THLETIC ASSOCIATION
N	ETH	HOD	Rot	ary						CO-O	RDINAT	ES		T	ROCK CORE BIT AT3
M	IAC	HINE &	NO.	XY-2	В						7,431.38 5,185.49				HOLE DIA. PW, HW
F	LUS	HING I	MEDIUN	/ Wat	er		T	0	RIENTA		VERT			+	ELEVATION +21.71 m P.D.
-				%	8	%	_	E					T		12177
9	Progress	Casing depth/size	Water level/	Water Recovery (Total core	Solid core	wery (0. (%)	Fracture Index (No./	Tests & Instrument -ation	oles	bed (.0	_	p p	0)	Description
Drilli	Prog	Casi	time/ date	Wate Reco	Solid	Reco	R.O.D.	Fract	Tests Instru- atior	Samples	Reduced Level (m P.D.)	Depth (m)	Legend	Grade	Description
20				17/	7	-		\$20 7.7		— and me. —	+1.69	- 20,02 20,20	7-7	III	20.02-20.20m: Moderately strong,
E				10							1.01	- 20.20	+++		moderately decomposed. 20.02-20.07m: Highly fractured.
- 21				1 9	8	4 1	84	0,9		AT3		-	+++	11	
Ē			8,16m at	10				N.R.			+0.66 +0.45 +0.31	-21.05 - 21.26 - 21.40	+++	III	21.05-21.26m: Moderately strong, moderately decomposed.
-14. 15.	11.24 11.24	HW	18:00 14.72m	1	4	+	_	>20		-	+0.15	21.56	+++	III	21.26-21.40m: No recovery, inferred to be completely decomposed.
22			at 08:00					0,8					+++		21.40-21.63m: Moderately strong, moderately decomposed.
Ė				9	9	1 8	89	0,0		AT3			+++	11	21.40-21.45m; Highly fractured.
E				10				8.3.			-1.00	22.71	+++		22 74 22 00 m. Mandaustati
23				1	4	_		>20		-	-1.37	23.08	+++	111	22.71-23.08m: Moderately strong, moderately decomposed.
-				10									+++		
-				1 0	10	0 1	00			AT3			+++		
-				1				0.4				-	+++	11	
=				1							-2.93	24.64	+++		
25				1						İ	-3,34	- -25,05	+++		
Ē				1		,	77			AT3	-3.64	- 25.35	+++	111	25.05-25.35m: Moderately strong, moderately decomposed.
Ė					7	´ '		N.R.			-3,99	25.70		V	25.35-25.70m: No recovery, inferred to be completely decomposed.
26											-4.42	26.13	+++	li	
05								1.3			-4.49 -4.76	26,20 - 26,47	+++	#	Strong, pinkish grey, spotted black and white, slightly decomposed, medium to
Kev. C								1.0					+++	П	coarse grained GRANITE. Joints are widely to very widely.
ZZ ZZ					9	4 5	94			AT3	-5,28	26.99	+++		occasionally medium spaced, rough planar, tight to extremely narrow, iron oxide stained, dipping 0°-10° and 10°-20°.
Form No.: SI-QA-02 Rev.				100									+++	Ш	26.20-26.47m: Moderately strong, moderately decomposed.
E -				1 1							-5.96	27,67	+++		26.99-27.67m: Moderately strong, moderately decomposed.
				1 //									+++	ı	
Ē				100	19	0 1	00	0.4		AT3			+++		28.33-28.73m: Hydrothermally altered.
- 29 15.1	1.24		9,31m al 18:00	1 //							7.41	-	+++	11	
-16.1	1.24		15.15m at 08:00	1							-7.41	29.12	+++		29.89m: <20mm thick Hydrothermally
			55,50	94	94	9	14			AT3			+++		altered. 29.98m: <30mm thick Hydrothermally
30 _				1/4	4-1	+.	-			L_			+++		altered.
LE •	GEN Sma		ed Sampl	e r	Water	Level			F	REMARK	S				
1	Larg	e Disturt	ed Sampl	e	Standa	rd Per			Test						
1		Liner Sa Undistur	mple bed Samp	le 🛓	Perme				Tip -						
			rbed Sam e (74mm)		In-situ				t	LOGGE	BY C.	H. Lau	_ C	HEC	KED BY _ B.C. Tam
Pres	Plste	on Sampl	e		A. = Not I. = Non-		aD()	e.		DATE	-	3.11.24		ATE	19.11.24
A.	Wate	er Sample	1	N.	R. ≃ No r	ecove	ry								

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Tal	(Fc	ю Е	ng	gine	erin	ıg	& (Cons	struct	ion C	Со.,	Ltd		JOB NO. DHF1 HOLE NO. QHF1 SHEET 4 of 4 DATE from 09.11.24 to 16.11.24			
								D	RILLI	HOLE	R	ECO	RI	D			
PROJ	ECT	PR	OPO	SED A	& A W	ORF	(S T	STEEL	GOLF FE	NCE AT	SOUT	H CHIN	A A	THLETIC ASSOCIATION			
METH	OD	Rot	ary							RDINATE	ES			ROCK CORE BIT AT3			
MACH	IINE &	NO.	Х	(Y-2B						7,431.38 5,185.49				HOLE DIA. PW, HW			
FLUS	HING N	MEDIUN	VI 1	Water			0	RIENTA	TION	VERTI	CAL			ELEVATION +21.71 m P.D.			
Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery (%)	Total core Recovery (%)	Solid core Recovery (%)	R.Q.D. (%)	Fracture Index (No./m)	Tests & Instrument -ation	Samples	Reduced Level (m P.D.)	Depth (m)	Legend	Grade	Description			
0			1	9A	94	94			AT3	-8.85	30.56	7-7 +++ +++	-	As sheet 3 of 4.			
				96	96	96	0.4		AT3	-9.85 -10.12	31.56		111	31.56-31.83m: Moderately strong, moderately decomposed.			
3				93	93	93	1.5		AY3	-10,29	32.00	+++ +++ +++ +++ +++ +++ +++	Ш				
4 16.11.24		8.85m at 18:00	1	99	99	99			AT3	-11.81 -12.27 -12.69	33.52 33.98 34.40	- + + - + + - + + - + + - + + - + +	III	33.98-34.40m: Moderately strong, moderately decomposed. END of borehole at 34.40m			
.5 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6									DEMACCIONA								
LEGEN									REMAR	KS							
Lar SP	ge Distu T Liner S	rbed Sam rbed Sam ample urbed Sam	ple	ļ s Ī F	Vater Le Standard Permeab Standpip	Pene	est										
Ma Pls	00 Undis	turbed Sa ple (74mn ple	mple	v 1. N.A. N.I. =	n-sltu Va = Not Ap = Non-int = No rec	ne Sh plical act	near To		LOGGI	ED BY <u>C</u>	.H. Lau		DATE	ECKED BY B.C. Tam E 19.11.24			

Tak	c Fc	оΕ	ng	jine	erir	g	&	Cons	structi	ion (Co.,	Ltd	. :	JOB NO. HOLE NO. DHF2(P) SHEET 1 of 4 DATE from 28.10.24 to 06.11.24
								D	RILLH	HOLE	RI	ECO	RE)
PROJI	ECT	PR	ОРО	SED A	& A W	OR	(S T	STEEL	GOLF FEI	NCE AT	SOUT	H CHINA	4 A	THLETIC ASSOCIATION
METH	OD	Rot	ary							RDINAT	ES			ROCK CORE BIT AT3
MACH	INE &	NO.	Х	Y-2B						,436.15 ,185.95				HOLE DIA. SW, PW, HW
FLUSH	HING N	/IEDIUN	ıν	Water			С	RIENTA	TION	VERT	CAL			ELEVATION +21.68 m P.D.
	Φ	10/-1	%)	%	%	9	(m)	ŧ						
Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery (%)	Total core Recovery	Solid core Recovery (R.Q.D. (%)	Fracture Index (No./	Tests & Instrument -ation	Samples	Reduced Level (m P.D.)	Depth (m)	Legend	Grade	Description
28.10.24 1 28.10.24	SW	dry at 18:00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Inspection Pit	+21,18	0.50		V	Extremely weak, yellowish brown, spotted black and white, completely decomposed, medium to coarse grained GRANITE. (Slightly clayey, sitty, fine to coarse SAND, with some, subangular, fine gravel.)
29.10.24		dry at 08:00		1 1 1 1 1	1			4, 4 1 4, 4, 4, 7 N = 19	- 2	+19.73	1.50	0000		Weak, yellowish brown, spotted black and white, highly decomposed, medium to coarse grained GRANITE. (Sandy, subangular, fine to coarse GRAVEL.)
29.10.24 30.10.24	SW PW	1.35m at 18:00 dry at 08:00		100				4, 4 / 5, 5, 7, 10 N = 27		+19.18 +18.18 +18.08 +17.63	3,50 3,60 		IV	
<u>5</u>				100				6, 9 1 10, 10, 14, 16 N = 50	g 01-	+16.18 +16.08 +15.63	5,50 5,60			
7				100	i 1				11	+15,18 +14,18 +14,08	6.50 - - - 7.50 7.60		IV	Weak, dark pinkish brown, spotted black and white, highly decomposed, medium to coarse grained GRANIE. (Sandy, subangular, fine to medium GRAVEL.)
8			1					8, 10 / 10, 13, 17, 22 N = 62	£ 4	+13,63	8.50			Weak, yellowish brown, spotted black and white, highly decomposed, medium to coarse grained GRANITE. (Slightly sandy, subangular, fine to coarse GRAVEL and COBBLES.)
30.10.24	PW	0,83m at 18:00	1	100				1	15	+12.18 +12.08	9.50	00000	IV	
31.10.24 10	HW	dry at 08:00		100	100	100	0,9		AT3	+12.05	9,63	+++	П	Very strong, pinkish grey, spotted black and white, slightly decomposed, medium
LEGEN Sma	all Distur ge Distur Liner Sa	bed Samp	ple	ļ s <u>∓</u> p	later Lev tandard ermeabl	Pene	est		REMARK Inspection Standpipe Piezomete	n pit was installe	d at 9.0	d out at	0.00	and the second time to an and an and an and an and an an an an an an an an an an an an an
Maz Pisto	0 Undist	urbed Sai ele (74mm	mple	V Ir N,A. = N,I. =	tandpipe n-situ Va = Not Ap Non-inti = No rec	ne Sl plicat ict	iear To ole.		LOGGEI	D BY _C	.H. Lau		HEC ATE	EKED BY <u>B.C. Tam</u> _11.11.24

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Tal	k Fo	юΕ	'nę	gine	erin	g	& (Cons	struct	ion (Со.,	Ltd	. :	JOB NO. HOLE NO. SHEET 2 of 4 DATE from 28.10.24 to 06.11.24			
								D	RILL	HOLE	E RI	ECO	RI)			
PRO	IECT	PR	OPC	SED A	& A W	ORK	(S TC	STEEL	GOLF FE	NCE AT	SOUT	H CHIN	A A	THLETIC ASSOCIATION			
METH	HOD	Rot	ary							RDINAT	ES			ROCK CORE BIT AT3			
MAC	HINE &	NO.)	KY-2B						,436.15 5,185.95				HOLE DIA. SW, PW, HW			
FLUS	HING I	MEDIU	M	Water			0	RIENTA	TION	VERT	ICAL			ELEVATION +21.68 m P.D.			
Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery (%)	Total core Recovery (%)	Solid core Recovery (%)	R.Q.D. (%)	Fracture Index (No./m)	Tests & Instrument -ation	Samples	Reduced Level (m P.D.)	Depth (m)	Legend	Grade	Description			
0				100	100	100	0,9		AT3	+10.93	- 10.75	+++ +++ +++	11	to coarse grained GRANITE. Joints are widely spaced, rough planar, tight to extremely narrow, iron oxide stained, dipping 40°-50°.			
131.10.24 1.11.24		2,41m at 18:00 dry at 08:00		100				19, 24 / 22, 20, 12 11 N = 65	19 17 18 18 18 18 18 18 18 18 18 18 18 18 18	+10.93 +10.88 +10.43 +10.38 +9.38 +9.28	-			Weak, yellowish brown, spotted black and white, highly decomposed, medium to coarse grained GRANITE. (Sandy, subangular, fine to coarse GRAVEL and COBBLES.)			
			1	300	100	100			AT3	+9.04	12.64	+++		Very strong, pinkish grey, spotted black and white, slightly decomposed, medium			
13			1	100	100	100	1.0		AT3			+ + + + + + + + + + + + + + + + + + + +	п	and white, signify decomposed, medium to coarse grained GRANITE. Joints, where intact, are widely, occasionally medium spaced, rough planar, tight to extremely narrow, iron oxide stained, dipping 0°-10° and 40°-50°.			
			İ				3.4		1 +	+8.20	13.48	+++		oxide stained, dipping 0°-10° and 40°-50°.			
14			1	82	82	82	4.3 N.R.		AT3	+7.80 +7.59	13.88	+++	V	13.88-14.09m: No recovery, inferred to be completely decomposed.			
15			i		1		0.7			+7.02	14,66	+++	П	al l			
		10.51m at	i	85	8/5	85	N.R.	25, 25/65mm	AT3	+6.17 +6.02 +5.88	15.51 - 15.66 - 15.80	-+++	V	15.51-15.66m: No recovery, inferred to be completely decomposed.			
1.11.24 2.11.24	HW	18:00 13.48m at 08:00	1				1.0	100/10mm (100bls / 10mm)	12 2	+5.73	15.95	+++	IV	Weak, yellowish brown, spotted black and white, highly decomposed, medium to coarse grained GRANITE. (Sandy, subangular, fine to coarse GRAVEL.)			
17			i	160	100 	100			AT3	1407	47.04	+++++++		Very strong, pinkish grey, spotted black and white, slightly decomposed, medium to coarse grained GRANITE. Joints, where intact, are widely to very			
18			1	100] 	100			AT3	+4,37	17,31	+++++++++++++++++++++++++++++++++++++++	П	widely, occasionally medium spaced, rough planar, tight to extremely narrow, iron oxide stained, dipping 0°-10°.			
			1		-		0.4		-	+3.23	18,45	+ + + + + + + + + + + + + + + + + + + +					
19		5,50m		92	92	92			AT3	+2.31	- 19.37 19.49	+++++++++++++++++++++++++++++++++++++++		19.37-19.49m: Moderately strong, moderately decomposed.			
2.11.24		at 18:00	1	100	100	100	3.3		AT3	+2.02 -+1.94 +1.88	19.66 19.74 19.80	<u></u>	##	19,66-19.80m: Moderately strong,			
LEGE	H		1-1-	1444		t -	H		REMARK		h	<u> </u> ±_±		+			
• Sm	nall Distu rge Distu T Liner S	rbed Sam rbed Sam ample irbed San	ple	ļ s <u>∓</u> P	Vater Lev tandard ermeabi	Pene lity T	est										
U1 Ma	00 Undis	turbed Sa ple (74mr	mple						LOGGE	:D BY _C			CHEC	EKED BY <u>B.C. Tam</u>			
▲ Wa	ter Samp	ole		N.R. =	= No rec	overy				DATE <u>9.11.24</u> DATE <u>11.11.24</u>							

Tal	k Fo	no F	n	nine	-rin	a	ጲ (Cons	struct	ion (Co	l td		JOB NO
1 a			.115	girio	J1111	9	α .	00110	oti doti	1011	JO.,	Lta		DATE from <u>28.10.24</u> to <u>06.11.24</u>
								D	RILLI	HOLE	E RI	ECO	RI)
PROJ	JECT	PR	OPO	OSED A	& A W	ORK	(S T	STEEL	GOLF FE	NCE AT	SOUT	H CHIN	A A	THLETIC ASSOCIATION
METH	HOD	Rot	ary							RDINAT 436.15			-	ROCK CORE BIT AT3
MACH	HINE &	NO.		XY-2B					N 815	,185.95			_	HOLE DIA. SW, PW, HW
FLUS	HING N	MEDIUI	VI	Water			C	RIENTA	TION	VERT	ICAL		_	ELEVATION +21.68 m P.D.
Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery (%)	Total core Recovery (%	Solid core Recovery (%)	R.Q.D. (%)	Fracture Index (No./m)	Tests & Instrument -ation	Samples	Reduced Level (m P.D.)	Depth (m)	Legend	Grade	Description
20		13.92m al 08:00	1	100	100	100	0.8		AT3	+1,12	20.56	+-+ +++ +++	11	As sheet 2 of 4.
Ē			i		i					+0.94	20.74	+++	181	20.74-21.00m: Moderately strong,
21			li	73	68	68	2,6		AT3	+0.68	21.00	+++	11	moderately decomposed.
		40.00	1		į		N.R.			+0.32	21.36	- +	V	21.36-21.67m: No recovery, inferred to be completely decomposed.
22 ⁴ .11.24 5.11.24		10,38m at 18:00 11,73m	1	100	100	100			AT3	-0.17 -0.30	- 21.85 - 21.98	+++	111	21.67-21.85m: Moderately strong, moderately decomposed.
5.11.24		at 08:00	1	96	96	96			AT3	-0.97	22.65	+++++++		
23			i								E	+++	П	
			i	100	100	100	0.3		AT3			+++		
			1		i					-2.04	23.72	+++		22.72.04.00m. Madasatah atau
24			1		-	П			-	-2.19 -2.32	23.87	+++	!!!	23.72-24.00m: Moderately strong, moderately decomposed.
			1		1						Ē	+++	111	
Ē			1		7 7	77			AT3	-3.00 -3.14 -3.24	24.68 24.82 - 24.92	+++	III	
25			i		1		N.R.		-	-3,55	25.23		V	moderately decomposed. 24.92-25.23m: No recovery, inferred to be completely decomposed.
			li		į						E	+++		Strong, pinkish grey, spotted black and white, slightly decomposed, medium to
26			i	96	9lo	90	0.8		AT3		Ē	+++	110	coarse grained GRANITE. Joints are widely , occasionally very closely and medium spaced, rough planar
			1		Î	"				-4.73	26.41	+++		and rough undulating, tight to extremely narrow, iron oxide stained, dipping 0°-10°, 30°-40° and 60°-70°.
5.11.24		6,81m at 18:00	1		l		≥20			-5.12	26.80	+++	1	26.41-27.48m: Woderately strong,
276.11.24		13,68m at 08:00	1				2.8		1		-	+++	111	moderately decomposed. 26.55-26.63m: Highly fractured.
Ē			l	100	de	0.5	>20		AT3	-5.80	27.48	+++	11	
28			li		9 5	95	1.5				E	+++		
-			i		į		>20			-6.66	28.34	+++	4	
			1		1						E	+++	-	
29			1		1	400	0.6				E	+++	11	
			1	100	100	100	0.0		AT3		Ē	+++		
			1		-					-8,17	29.85	+++		
30			Н	7777		-	-		AT3			+	-	
• Sn	ND nall Distu	rbed Sam	ple	ı V	/ater Lev	/el			REMARK	S				
i La	rge Distu T Liner S	rbed San		ļs	tandard	Pene		Test						
I U7	6 Undist	irbed Sar		i s	ermeabi tandpipe			er Tip						
124	00 Undis				n-situ Va = Not Ap			est	LOGGE	DBY C	C.H. La	u_ (CHEC	CKED BYB.C. Tam_
Prs Pis	ston Sam	ple	,	N.I, =	Non-Inta	ect			DATE	_9	3.11.24		DATE	11.11.24
▲ Wa	ater Samp	ole	_	N.R. :	= No rec	overy								D 24

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Tal	k Fo	юΕ	:ng	gine	erin	g	& (Cons	struct	ion (Со.,	Ltd		JOB NO. DHF2(P) HOLE NO. DHF2(P) SHEET 4 of 4 DATE from 28.10.24 to 06.11.24
								D	RILLI	HOLE	R	ECO	R	D
PROJ	IECT	PR	OPC	SED A	& A W	OR	KS TO	STEEL	GOLF FE	NCE AT	SOUT	H CHIN	A A	ATHLETIC ASSOCIATION
METH	IOD	Rot	tary					-		RDINAT 7,436.15	ES		-	ROCK CORE BIT AT3
MACH	IINE &	NO.		KY-2B						5,185.95			1	HOLE DIA. SW, PW, HW
FLUS	HING N	MEDIUI	M	Water			0	RIENTA	TION	VERT	ICAL			ELEVATION +21.68 m P.D.
Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery (%)	Total core Recovery (%)	Solid core Recovery (%)	R.Q.D. (%)	Fracture Index (No./m)	Tests & Instrument -ation	Samples	Reduced Level (m P.D.)	Depth (m)	Legend	Grade	Description
0			T			-	4.8			-8.43 -8.60	- 30.11 - 30.28	7-+	111	
			li		94	94	1.5		AT3	-9.00	30.68	+++	11	moderately decomposed.
i			1			34	≥20.			-9.28	30.96	++++	Ш	 moderately decomposed.
			l i		1				1	-9.58 -9.72	- 31,26 - 31,40	+++	11	31.26-33.00m: Moderately strong,
			1	100	100	92			AT3			[+++		moderately decomposed.
2			1		1				1	-10.45	32.13	+++	111	
			1	94	9.1	91			AT3			+++		
3			H				0.6			-11.32	33.00	+++		
										11.00	-	+++		
			li	99	9,9	99	Ш		AT3			+++	11	
ı		4.98m	1				П					+++		
6.11.24		at 18;00	H		+	H			+-	-12.62	34.30	+++	_	END of borehole at 34.30m
5				1 1	1									
6			1	1 1 1										
			1	1	1		Н							
			1	1	1									
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LEGE		had Pa-	nle	x \	Mater I	mt			REMARI	KS				
Lai	all Distu ge Distu			:	Vater Lo Standard		tration	Test						
	T Liner S 6 Undistu		nple		ermeab Standpip			r Tip						
U1	00 Undist	urbed Sa	mple	~ I	n-situ Va	ne Si	near Te		LOGGE	D BY C	.H. Lai	u r	HE	CKED BY B.C. Tam
	zler Sam ton Sam		n)		= Not Ap		ble.		DATE		.11,24		AT	
	ter Samp				= No rec				DATE		.11154		7.4.1	- CHILINAT