

Method Statement Change and Review Template

Date:	24/04/2024
Work activity:	Predrilling Works at CAs 10m away nearest track
Approved (ACC)	MS:1701-W-000-CSC-760-000072
Initiated by:	Ted Leung, YW Li, Kyle Lai
Evaluate change:	<input type="checkbox"/> The MS is followed on site. <input checked="" type="checkbox"/> Minor change, any change which would not render the safe system of work nor the original safe guard / control ineffective <input type="checkbox"/> Major change, any change other than minor change
Review and approve change:	<input checked="" type="checkbox"/> Minor change <input checked="" type="checkbox"/> (1) without railway implication <input type="checkbox"/> (2) with railway implication (accepted by HKTS) Description: Address to TCP comments.
	<input type="checkbox"/> (3) Major change > follow the normal method statement approval process Description:  Michael Wang SConE-C Jeff Chan SConM-C KK Yung CIOW-C Poon Pong SCSA Peter Chong SM-Depot
Communication: (internal)	<input type="checkbox"/> Approved minor change and briefing to operatives is carried out on <input type="checkbox"/> <u>Major change</u> > follow the normal method statement approval process
Communication: (external)	<input type="checkbox"/> Summarized and discussed in weekly RP/HKTS meeting. <input type="checkbox"/> RP <input type="checkbox"/> RSMD <input type="checkbox"/> PP&DO <input type="checkbox"/> IMD



Siu Ho Wan Depot Property Development
Contract 1701 - Oyster Bay Station and Associated Works

CSF Reference Number:	CSHK	CET	MS	C	2024	000083
ACC Reference Number:	1701	W	000	CSC	760	000072

METHOD STATEMENT TITLE	Rev. D
Predrilling works at CAs 10m away nearest track	

	Prepared by:	Checked by:	Reviewed by:	Reviewed by:
Signature:				
Name:	Johnson Chung	Vincent Li	Leung Kwok Fung /Hui Wai Kwan	MH Isa / WH Lam
Position:	Senior Engineer	Construction Manager	SM/SO	QM/QE
Date:	24-Apr-2024	24-Apr-2024	24-Apr-2024	24-Apr-2024
	Reviewed by:	Reviewed by:	Reviewed by:	Approved by:
Signature:				
Name:	James Ma / Iris Ho	Yeung Wai Lun	Paul Freeman/ Mark McGleenon	Eric Fong
Position:	EM/EO	A. Project Director	Sr. Project Director / A. Project Director	Project Director
Date:	24-Apr-2024	24-Apr-2024	24-Apr-2024	24-Apr-2024

Li, Yuk Wa (CN - Hong Kong)

寄件者: Alex Lam CH <alex-ch.lam@arup.com>
寄件日期: 2024年4月26日星期五 19:14
收件者: Li, Yuk Wa (CN - Hong Kong); Kelvin Tsang; WANG Michael Miao (王淼); Wilson Chan TH; Fung, King Chung
副本: CHENG William Ho Yin (鄭浩賢); 梁順昌; 馮健強; 羅亦烽; 楊云策; 黃禮賢; 黎聰; CHEUNG TK Tze Kin (張子建); KOO Raymond Kai On (顧啟安); WONG CW Chun (黃俊); Jerry Luk; TAN Adrian Choong Meng; WCHY@mtr.com.hk; CHAN Jeff Chi Chun (陳子晉); YAM Jackie Ming Lung (任明龍); Matthew Wong (A); Danny Lui; Jason Wong CC; YUNG KK Kei Kit (翁奇傑); Carol Lau; Kenneth Yu; Alex Tse (KC); Jerry Luk; Wilson Chan TH; Nicholas Li; 陳國強
主旨: RE: Minor change of Method statement for pre-drill works at CAs 10m away nearest track
附件: Predrilling Schedule - 54L, 54M, 51L_comment.pdf

Dear Wa (CSHK teammate)

Please note site TCP has no adverse comment to the predrill method statement.

For the provided predrilling summary table, please find the attached comments for your follow-up.

Please also supplement the remaining P1B pre-drilling holes information by early next week.

Regards

Alex LAM
Rail & SIT | SHD Site Supervision Team

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From: Li, Yuk Wa (CN - Hong Kong) <yukwa_li@cohl.com>
Sent: Friday, April 26, 2024 5:55 PM
To: Alex Lam CH <alex-ch.lam@arup.com>; Kelvin Tsang <kelvin.tsang@arup.com>; WANG Michael Miao (王淼) <michaelmwang@mtr.com.hk>; Wilson Chan TH <wilson-th.chan@arup.com>; Fung, King Chung <kingchung.fung@cohl.com>
Cc: CHENG William Ho Yin (鄭浩賢) <WCHY@mtr.com.hk>; 梁順昌 <shuncheong.leung@cohl.com>; 馮健強 <kinkeung.fung01@cohl.com>; 羅亦烽 <yikfung.lo@cohl.com>; 楊云策 <yunce.yang@cohl.com>; 黃禮賢 <laiyinjack.wong@cohl.com>; 黎聰 <chung.lai@cohl.com>; CHEUNG TK Tze Kin (張子建) <CTZEKIN@mtr.com.hk>; KOO Raymond Kai On (顧啟安) <KOKOO@mtr.com.hk>; WONG CW Chun (黃俊) <cwong1@mtr.com.hk>; Jerry Luk <jerry.luk@arup.com>; TAN Adrian Choong Meng <adriantan@mtr.com.hk>; WCHY@mtr.com.hk; CHAN Jeff Chi Chun (陳子晉) <JCCCHAN@mtr.com.hk>; YAM Jackie Ming Lung (任明龍) <YAMML@mtr.com.hk>; Matthew Wong (A) <Matthew-A.Wong@arup.com>; Danny Lui <Danny.Lui@arup.com>; Jason Wong CC <jason-cc.wong@arup.com>; YUNG KK Kei Kit (翁奇傑) <KKYUNG@mtr.com.hk>; Carol Lau <carol.lau@arup.com>; Kenneth Yu <kenneth.yu@arup.com>; Alex Tse (KC) <Alex-KC.Tse@arup.com>; Jerry Luk <jerry.luk@arup.com>; Wilson Chan TH <wilson-th.chan@arup.com>; Nicholas Li <nicholas.li@arup.com>; 陳國強 <kwokkeung.chan@cohl.com>
Subject: RE: Minor change of Method statement for pre-drill works at CAs 10m away nearest track

Dear Alex,

Please find the reply to comments for your review:

1. For paragraph 7.3.3, Please add "In case the pre-drill hole encounters UU or other underground obstruction which require pre-drill hole relocation, the contractor shall submit the alternative pre-drill hole location for MTR-CM & DM/DDC/TCP review and agreement."
Noted and text updated.
2. Core run is specified as 3m in paragraph 7.5. Refer to MTR M&W Specification, the single drill run is normally not exceeding 1.5m in length. Please clarify.
Noted and text updated.
3. For paragraph 7.7, the criteria for the pre-drill at Q049G1 pile cap is found not match with the BD approved drawing. Please update.
Noted and text updated.
4. Refer to BD approved drawing, for pre-drill hole of bored piles, all predrill holes shall be backfilled by tremie method with grout strength at least or equal to that specified for the pile shaft. Please review the paragraph 7.8 of the MS.
Noted and text updated.
5. For Appendix B – ITP, hold point should be used for AP/RSE/RGE TCP for item C9 Sampling & Rockhead level.
Noted and ITP updated.
6. For Appendix D – Drawings, please find the following comments for provided information:
 - BD approved general notes drawings for predrilling works should be appended.
 - Please highlight the predrilling locations to covered in this method statement.**Noted and drawing appendix updated.**

Updated method statement:

[Predrilling works at CAs 10m away nearest track \(Rev. D\) 20240426.pdf](#)

The first three drill hole will be L054G1, N054G1 (to be commence on 27/4) and L051G1 (to be commence on 29/4). Please find the pre-drill schedule for your retention.

Thank you for your attention.

Regards,

Li Yuk Wa | 李旭華

Assistant Construction Manager | 助理施工經理

MTR Contract 1701 –

Siu Ho Wan Depot Property Development Oyster Bay Station and Associated Works

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Sent: Friday, April 26, 2024 3:00 PM
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Subject: RE: Minor change of Method statement for pre-drill works at CAs 10m away nearest track

Dear Wa (CSHK teammate)

Please find the following further comments for P1B predrill MS for your follow-up:

1. For paragraph 7.3.3, Please add “In case the pre-drill hole encounters UU or other underground obstruction which require pre-drill hole relocation, the contractor shall submit the alternative pre-drill hole location for MTR-CM & DM/DDC/TCP review and agreement.”
2. Core run is specified as 3m in paragraph 7.5. Refer to MTR M&W Specification, the single drill run is normally not exceeding 1.5m in length. Please clarify.
3. For paragraph 7.7, the criteria for the pre-drill at Q049G1 pile cap is found not match with the BD approved drawing. Please update.
4. Refer to BD approved drawing, for pre-drill hole of bored piles, all predrill holes shall be backfilled by tremie method with grout strength at least or equal to that specified for the pile shaft. Please review the paragraph 7.8 of the MS.
5. For Appendix B – ITP, hold point should be used for AP/RSE/RGE TCP for item C9 Sampling & Rockhead level.
6. For Appendix D – Drawings, please find the following comments for provided information:
 - BD approved general notes drawings for predrilling works should be appended.
 - Please highlight the predrilling locations to covered in this method statement.

Please be reminded to submit the method statement of inspection pit for RP agreement prior to commencement of works.

In addition, please be reminded to address our earlier comments on the proposed predrill layout (see attached email). Please separately submit a summary table to show the upcoming P1B predrilling works for site TCP reference. The table should show each pre-drill hole Easting & Northing, ground level, tentative rockhead level and tentative termination level of predrill hole.

Regards

Alex LAM
Rail & SIT | SHD Site Supervision Team

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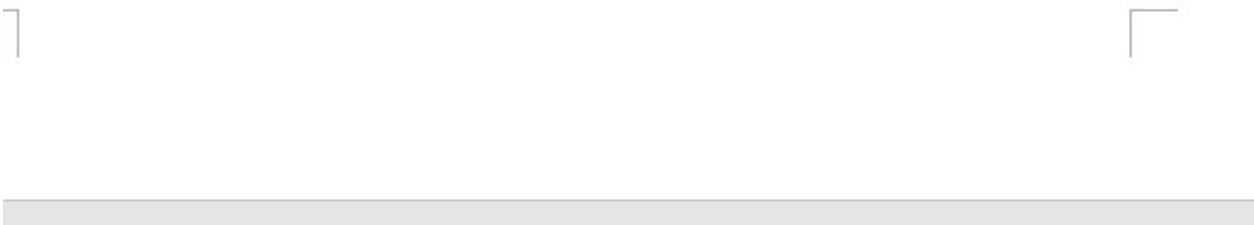
From: Kelvin Tsang <kelvin.tsang@arup.com>
Sent: Thursday, April 25, 2024 6:12 PM
To: Li, Yuk Wa (CN - Hong Kong) <yukwa_li@cohl.com>; Alex Lam CH <alex-ch.lam@arup.com>; WANG Michael Miao (王淼) <michaelmwang@mtr.com.hk>; Wilson Chan TH <wilson-th.chan@arup.com>; Fung, King Chung <kingchung.fung@cohl.com>
Cc: CHENG William Ho Yin (鄭浩賢) <WCHY@mtr.com.hk>; 梁順昌 <shuncheong.leung@cohl.com>; 馮健強 <kinkeung.fung01@cohl.com>; 羅亦烽 <yikfung.lo@cohl.com>; 楊云策 <yunce.yang@cohl.com>; 黃禮賢 <laiyinjack.wong@cohl.com>; 黎聰 <chung.lai@cohl.com>; CHEUNG TK Tze Kin (張子建) <CTZEKIN@mtr.com.hk>; KOO Raymond Kai On (顧啟安) <KOKOO@mtr.com.hk>; WONG CW Chun (黃俊) <cwong1@mtr.com.hk>; Jerry Luk <jerry.luk@arup.com>; TAN Adrian Choong Meng <adriantan@mtr.com.hk>; WCHY@mtr.com.hk; CHAN Jeff Chi Chun (陳子晉) <JCCCHAN@mtr.com.hk>; YAM Jackie Ming Lung (任明龍) <YAMML@mtr.com.hk>; Matthew Wong (A) <Matthew-A.Wong@arup.com>; Danny Lui <Danny.Lui@arup.com>; Jason Wong CC <jason-cc.wong@arup.com>; YUNG KK Kei Kit (翁奇傑) <KKYUNG@mtr.com.hk>; Carol Lau <carol.lau@arup.com>; Kenneth Yu <kenneth.yu@arup.com>; Alex Tse (KC) <Alex-KC.Tse@arup.com>; Jerry Luk <jerry.luk@arup.com>; Wilson Chan TH <wilson-th.chan@arup.com>; Nicholas Li <nicholas.li@arup.com>; 陳國強 <kwokkeung.chan@cohl.com>
Subject: RE: Minor change of Method statement for pre-drill works at CAs 10m away nearest track

Dear CSHK,

Have a glance of the RtC, can I assume that you have supplemented the pre-drilling plan in the appendix D but missing out from RtC.

I only have time to see the RtC but not the method statement.

8. Please clarify the abbreviation of "TY" in section 7.6. **Noted and updated.**
9. For Appendix D, the pre-drilling locations are missing in the drawings. Also, the gridlines in the drawing are missing. Please supplement.

- 
- 
10. Please be reminded to submit the qualification of geotechnical field technician, competent person (logging) and competent person (supervision) for review prior to the pre-drilling works. **Noted**
 11. Please attach the relevant BD approved drawings for predrilling works for reference.
Noted and attached.

Regards,

Kelvin Tsang
Director

Arup

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<kwokkeung.chan@cohl.com>

Subject: RE: Minor change of Method statement for pre-drill works at CAs 10m away nearest track

Some people who received this message don't often get email from yukwa_li@cohl.com. [Learn why this is important](#)

Dear Alex,

Please find the reply to comments for your review.

Updated method statement:

[Predrilling works at CAs 10m away nearest track \(Rev. D\).pdf](#)

Thank you for your attention.

Regards,

Li Yuk Wa | 李旭華

Assistant Construction Manager | 助理施工經理

MTR Contract 1701 –

Siu Ho Wan Depot Property Development Oyster Bay Station and Associated Works

Tel: +852 9128 7583 (Mobile)

E-mail: yukwa_li@cohl.com

From: Alex Lam CH <alex-ch.lam@arup.com>

Sent: Wednesday, April 24, 2024 7:41 PM

To: Li, Yuk Wa (CN - Hong Kong) <yukwa_li@cohl.com>; WANG Michael Miao (王淼)

<michaelmwang@mtr.com.hk>; Wilson Chan TH <wilson-th.chan@arup.com>; Fung, King Chung

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Cc: CHENG William Ho Yin (鄭浩賢) <WCHY@mtr.com.hk>; 梁順昌 <shuncheong.leung@cohl.com>; 馮健強 <kinkeung.fung01@cohl.com>; 羅亦烽 <yikfung.lo@cohl.com>; 楊云策 <yunce.yang@cohl.com>; 黃禮賢 <laiyinjack.wong@cohl.com>; 黎聰 <chung.lai@cohl.com>; CHEUNG TK Tze Kin (張子建) <CTZEKIN@mtr.com.hk>; KOO Raymond Kai On (顧啟安) <KOKOO@mtr.com.hk>; WONG CW Chun (黃俊) <cwong1@mtr.com.hk>; Jerry Luk <jerry.luk@arup.com>; TAN Adrian Choong Meng <adriantan@mtr.com.hk>; WCHY@mtr.com.hk; CHAN Jeff Chi Chun (陳子晉) <JCCCHAN@mtr.com.hk>; YAM Jackie Ming Lung (任明龍) <YAMML@mtr.com.hk>; Matthew Wong (A) <Matthew-A.Wong@arup.com>; Kelvin Tsang <kelvin.tsang@arup.com>; Danny Lui <Danny.Lui@arup.com>; Jason Wong CC <jason-cc.wong@arup.com>; YUNG KK Kei Kit (翁奇傑) <KKYUNG@mtr.com.hk>; Carol Lau <carol.lau@arup.com>; Kenneth Yu <kenneth.yu@arup.com>; Alex Tse (KC) <Alex-KC.Tse@arup.com>; Jerry Luk <jerry.luk@arup.com>; Wilson Chan TH <wilson-th.chan@arup.com>; Nicholas Li <nicholas.li@arup.com>; 陳國強 <kwokkeung.chan@cohl.com>; Alex Lam CH <alex-ch.lam@arup.com>

Subject: RE: Minor change of Method statement for pre-drill works at CAs 10m away nearest track

Dear Wa & Kenny (CSHK teammate)

Please find the following site TCPs comments on P1B Predrilling method statement for your follow up.
Thank you.

Major comments:

1. For Section 3, the proposed “Drilltech Geotechnical Engineering Ltd” is not in RSC(GIFW) Register of Specialist Contractors (Sub-register of Ground Investigation Field Works Category). Please clarify if the company is referring to “DRILTECH GEOTECHNICAL ENGINEERING LIMITED” in the above register.
2. For Section 4, it seems none of the deployed staff in the section 4 table are the TCPs covered in the site supervision plan (SSP) submitted to BD in effect. Please be reminded to follow the required inspection frequency for proposed TCP-T4/T2/T1 as per the SSP & BD approval letter conditions, and the required inspection frequency for critical stage of works as per the CoP for site supervision (e.g. twice a week inspection frequency for RC T4 for pre-drilling works of large diameter bored piles and socketed H-piles).
3. Please be reminded that the sampling and testing requirements shall follow the latest BD approved drawings, including but not limited to standard penetration test.
4. Please provide the details of the followings in Section 7 – construction methods / construction sequence:
 - Instrumentation and monitoring shall be installed and monitored prior to pre-drilling works commence.
 - in case the pre-drill hole encounters UU or other underground obstruction which require pre-drill hole relocation, the contractor shall submit the alternative pre-drill hole location for MTR-CM & DM/DDC/TCP review and agreement.
 - Verticality control for the drilling operation;
 - Please specify the length of core runs for the rock sample.
 - Please specify the termination criteria for the predrilling works of large diameter bored pile and socketed H-piles.
 - Please specify the grout strength for backfilling.
 - Please include the criteria for standard penetration test in the BD approved drawings.

- During the course of the Works, a daily record sheet shall be submitted to the RSE/RGE's site representative, in the agreed format, containing the information required by the Specification within 1 working day or agreed period after the field operations to which they refer have been carried out. The format of daily record sheet and preliminary log sheet shall be submitted to the RSE/ RGE's site representative for approval before work commences.
 - For each pre-drill hole, three nos. of point load strength tests as directed by the RSE/RGE's representatives shall be carried out for the rock cores recovered from each pre-drilling to confirm the rock strength. The pre-drilling records and point load strength test results shall be submitted to the RSE/RGE's representatives 14 days or agreed period prior to commencement of the pile construction.
 - When each pre-drilling is completed, 1 copy of the preliminary logs together with the relevant colour core photographs shall be submitted to the RSE/RGE's site representative shall be submitted to the RSE/RGE's site representative within 3 days or agreed period
 - Rockhead contour plan based on the ground investigation and pre-drilling shall be submitted to AP/RSE/RGE upon completion
5. Please find the following comments to ITP:
- For item "Checking setting out of drilling hole " and "Check position of drill rig before drilling Commencement", please use control point for AP/RSE/RGE TCP.
 - Standard penetration test is missing in ITP. Please add. Please use hold point for CSHK and control point for MTR and AP/RSE/RGE TCP.
 - Please add an item for inspection of sampling & rockhead, and determination of rockhead level. Please use hold point for CSHK and AP/RSE/RGE TCP and control point for MTR.

Other Comments:

6. Predrilling works shall be performed in accordance with Geoguide 2&3.
7. Please clarify what "Supervisors" are referring to in Section 7.3.2.
8. Please clarify the abbreviation of "TY" in section 7.6.
9. For Appendix D, the pre-drilling locations are missing in the drawings. Also, the gridlines in the drawing are missing. Please supplement.
10. Please be reminded to submit the qualification of geotechnical field technician, competent person (logging) and competent person (supervision) for review prior to the pre-drilling works.
11. Please attach the relevant BD approved drawings for predrilling works for reference.

Regards

Alex LAM
Rail & SIT | SHD Site Supervision Team

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Sent: Wednesday, April 24, 2024 5:13 PM
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Cc: CHENG William Ho Yin (鄭浩賢) <WCHY@mtr.com.hk>; 梁順昌 <shuncheong.leung@cohl.com>; 馮健強 <kinkeung.fung01@cohl.com>; Li, Yuk Wa (CN - Hong Kong) <yukwa_li@cohl.com>; 羅亦烽 <yikfung.lo@cohl.com>; 楊云策 <unce.yang@cohl.com>; 黃禮賢 <laiyinjack.wong@cohl.com>; 黎聰 <chung.lai@cohl.com>; CHEUNG TK Tze Kin (張子建) <CTZEKIN@mtr.com.hk>; KOO Raymond Kai On (顧啟安) <KOKOO@mtr.com.hk>; WONG CW Chun (黃俊) <cwong1@mtr.com.hk>; Jerry Luk <jerry.luk@arup.com>; TAN Adrian Choong Meng <adriantan@mtr.com.hk>; WCHY@mtr.com.hk; CHAN Jeff Chi Chun (陳子晉) <JCCCHAN@mtr.com.hk>; YAM Jackie Ming Lung (任明龍) <YAMML@mtr.com.hk>; Alex Lam CH <alex-ch.lam@arup.com>; Matthew Wong (A) <Matthew-

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Subject: Minor change of Method statement for pre-drill works at CAs 10m away nearest track

Dear Michael, Alex/Wilson,

Please find the minor change of method statement for pre-drill works at CAs 10m away nearest track for your review and endorsement. The description of pre-drill location is updated.

Thank you for your attention.

Regards,

Li Yuk Wa | 李旭華

Assistant Construction Manager | 助理施工經理

MTR Contract 1701 –

Siu Ho Wan Depot Property Development Oyster Bay Station and Associated Works

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From: WONG CW Chun (黃俊) <cwong1@mtr.com.hk>

Sent: Wednesday, April 24, 2024 4:30 PM

To: Li, Yuk Wa (CN - Hong Kong) <yukwa_li@cohl.com>; WANG Michael Miao (王淼) <michaelmwang@mtr.com.hk>

Cc: CHENG William Ho Yin (鄭浩賢) <WCHY@mtr.com.hk>

Subject: RE: [External Email] Minor change of Method statement for pre-drill works at CAs 10m away nearest track

Dear Michael,

Please handle this with the stakeholder to endorse the form and get TCP team no objection as well.

Regards,

WONG Chun

From: Li, Yuk Wa (CN - Hong Kong) <yukwa_li@cohl.com>

Sent: Wednesday, 24 April, 2024 15:41

To: WONG CW Chun (黃俊) <cwong1@mtr.com.hk>; WANG Michael Miao (王淼) <michaelmwang@mtr.com.hk>

Cc: CHENG William Ho Yin (鄭浩賢) <WCHY@mtr.com.hk>; Shun Cheong Leung <shuncheong.leung@cohl.com>;

Fung Kin Keung <kinkeung.fung01@cohl.com>; FUNG King Chung <kingchung.fung@cohl.com>; LAI Chung Kyle <chung.lai@cohl.com>; Yang Yunce <yunce.yang@cohl.com>; LO Yik Fung Andy <yikfung.lo@cohl.com>

Subject: [External Email] Minor change of Method statement for pre-drill works at CAs 10m away nearest track

CAUTION: This email originated from outside of MTR. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dear Chun,

Please find the minor change method statement for pre-drill works at CAs 10m away nearest track for your review and endorsement. The description of pre-drill location is updated.

Thank you for your attention.

Regards,

Li Yuk Wa | 李旭華

Assistant Construction Manager | 助理施工經理

MTR Contract 1701 –

Siu Ho Wan Depot Property Development Oyster Bay Station and Associated Works

Tel: +852 9128 7583 (Mobile)

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Major comments:

1. For Section 3, the proposed “Drilltech Geotechnical Engineering Ltd” is not in RSC(GIFW) Register of Specialist Contractors (Sub-register of Ground Investigation Field Works Category). Please clarify if the company is referring to “DRILTECH GEOTECHNICAL ENGINEERING LIMITED” in the above register.
Noted. “FUGRO GEOTECHNICAL SERVICES LIMITED” is selected as the sub-contractor of pre-drill works.
2. For Section 4, it seems none of the deployed staff in the section 4 table are the TCPs covered in the site supervision plan (SSP) submitted to BD in effect. Please be reminded to follow the required inspection frequency for proposed TCP-T4/T2/T1 as per the SSP & BD approval letter conditions, and the required inspection frequency for critical stage of works as per the CoP for site supervision (e.g. twice a week inspection frequency for RC T4 for pre-drilling works of large diameter bored piles and socketed H-piles).
Noted, the table is updated.
3. Please be reminded that the sampling and testing requirements shall follow the latest BD approved drawings, including but not limited to standard penetration test.
Noted.
4. Please provide the details of the followings in Section 7 – construction methods / construction sequence:
 - Instrumentation and monitoring shall be installed and monitored prior to pre-drilling works commence. **Noted 7.3.4 is updated.**
 - in case the pre-drill hole encounters UU or other underground obstruction which require pre-drill hole relocation, the contractor shall submit the alternative pre-drill hole location for MTR-CM & DM/DDC/TCP review and agreement. **Noted 7.3.3 is updated.**
 - Verticality control for the drilling operation; **Checking the verticality by spirit level before drilling operation**
 - Please specify the length of core runs for the rock sample. **Noted 7.5 is updated**
 - Please specify the termination criteria for the predrilling works of large diameter bored pile and socketed H-piles. **Noted 7.4 is updated.**
 - Please specify the grout strength for backfilling. **Noted 7.8 is updated.**
 - Please include the criteria for standard penetration test in the BD approved drawings. **Noted 7.7 is updated.**
 - During the course of the Works, a daily record sheet shall be submitted to the RSE/RGE’s site representative, in the agreed format, containing the

information required by the Specification within 1 working day or agreed period after the field operations to which they refer have been carried out.

The format of daily record sheet and preliminary log sheet shall be submitted to the RSE/ RGE's site representative for approval before work commences. [Noted 7.9 is updated.](#)

- For each pre-drill hole, three nos. of point load strength tests as directed by the RSE/RGE's representatives shall be carried out for the rock cores recovered from each pre-drilling to confirm the rock strength. The pre-drilling records and point load strength test results shall be submitted to the RSE/RGE's representatives 14 days or agreed period prior to commencement of the pile construction. [Noted 7.7 is updated.](#)
- When each pre-drilling is completed, 1 copy of the preliminary logs together with the relevant colour core photographs shall be submitted to the RSE/RGE's site representative shall be submitted to the RSE/RGE's site representative within 3 days or agreed period. [Noted 7.9 is updated.](#)
- Rockhead contour plan based on the ground investigation and pre-drilling shall be submitted to AP/RSE/RGE upon completion [Noted 7.9 is updated.](#)

5. Please find the following comments to ITP:

- For item "Checking setting out of drilling hole " and "Check position of drill rig before drilling Commencement", please use control point for AP/RSE/RGE TCP. [Noted and updated.](#)
- Standard penetration test is missing in ITP. Please add. Please use hold point for CSHK and control point for MTR and AP/RSE/RGE TCP. [Noted and updated.](#)
- Please add an item for inspection of sampling & rockhead, and determination of rockhead level. Please use hold point for CSHK and AP/RSE/RGE TCP and control point for MTR. [Noted and updated.](#)

Other Comments:

6. Predrilling works shall be performed in accordance with Geoguide 2&3.
[Noted 2.0 updated](#)
7. Please clarify what "Supervisors" are referring to in Section 7.3.2.
[Text amended. The location of drill hole should be checked by MTR.](#)
8. Please clarify the abbreviation of "TY" in section 7.6. [Noted and updated.](#)
9. For Appendix D, the pre-drilling locations are missing in the drawings. Also, the gridlines in the drawing are missing. Please supplement.

10. Please be reminded to submit the qualification of geotechnical field technician, competent person (logging) and competent person (supervision) for review prior to the pre-drilling works. **Noted**
11. Please attach the relevant BD approved drawings for predrilling works for reference.
Noted and attached.

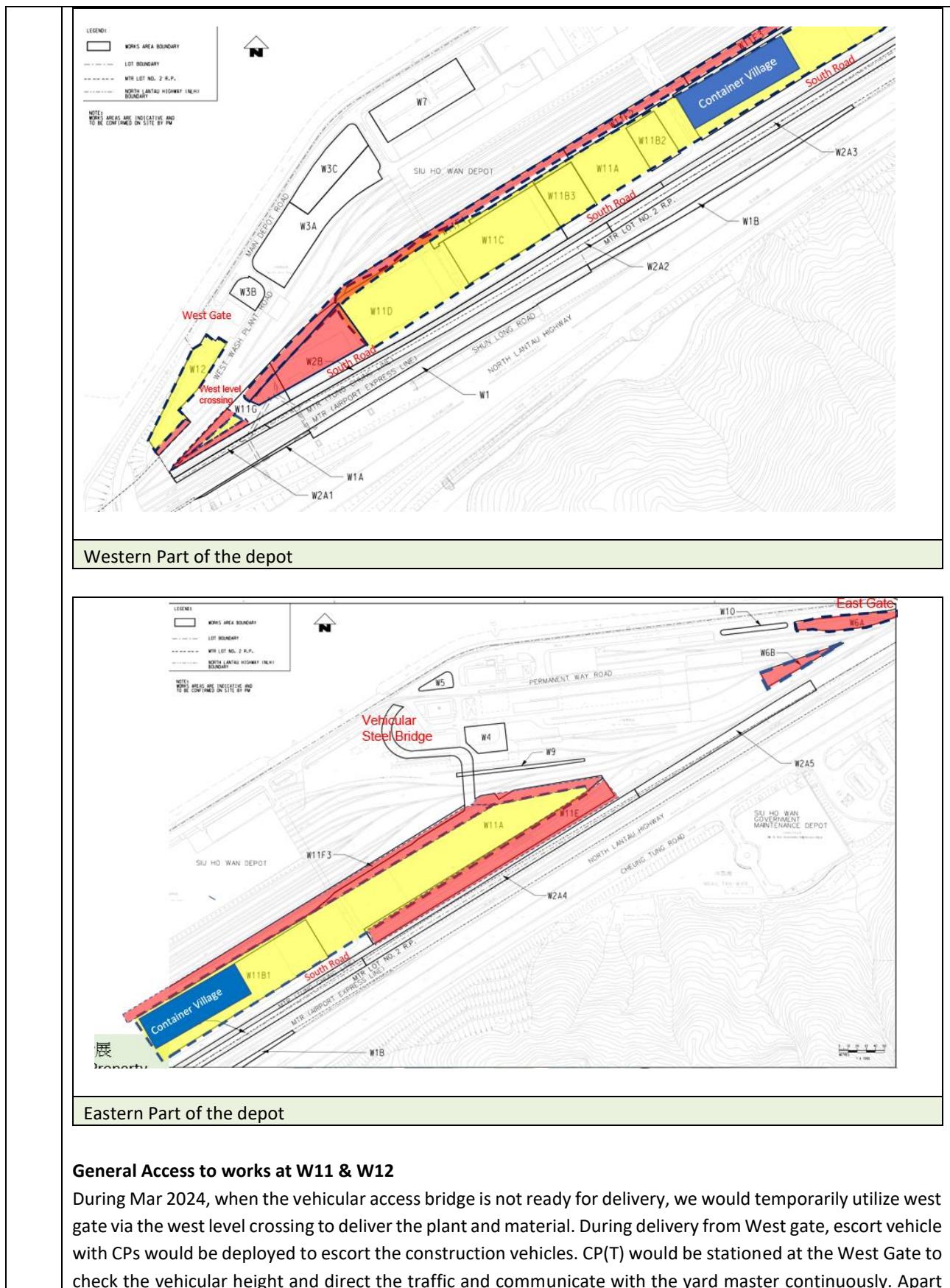
CONTENT

1. Introduction
2. Reference Documents
3. Details of Sub-Contractor/Specialist Sub-Contractor
4. Responsibilities for Activities described within Method Statement
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1.	Introduction (Overview of the operation/works)																
	This document provides an overview of the method statement for predrilling of foundation works for the area which is 10m away from the track and OHL where EDOC is not required according to the latest BUGN2023/21 (Issue/Rev:1.0). The predrilling works will be commenced after the works areas declared as construction areas (CAs). The method statement covers first the access to the designated works area and the procedure related to predrilling with details of sub-contractor attached. It details the responsible personnel including managers, engineers and workers for executing the construction activities. Furthermore, it included the plant and equipment to be adopted and detailed set up on site. Lastly, it includes the safety and environment and quality control requirement to ensure the construction is safe and robust. Relevant drawings, job hazard analysis can be found in the appendix.																
2.	Reference Documents (Identify relevant documents by name and reference number)																
	<ul style="list-style-type: none">• Practice Note PNAP -24• Practice Note RC No.14• MTRCL-New Works Design Standards Manual -Section 3-Railway Engineering• Hong Kong Transport Services Business Unit Requirements and information for contractor• Hong Kong Transport Services Unit Railway Safety Rules• MTRCL Working Paper No.6-Railway Protection- Revision B-December 2022• MTRCL Contract 1701 Oyster Bay Station and Associated Works-(S2) Scope-Vol 4 (Book 4 of 9) Appendix AM-Clients Rules and Procedures for Working Within or Adjacent to the Railway• MTRCL Contract 17-1 Oyster Bay Station and Associated Works – Instructions TO Tenders, and• MTRCL Contract 1701 Oyster Bay Station and Associated Works – Contract Data• BUGN2023/21 (Issue/Rev:1.0)• Geoguide 2&3																
3.	Details of Sub-Contractor/Specialist Sub-Contractor																
	<ul style="list-style-type: none">- FUGRO GEOTECHNICAL SERVICES LIMITED- Lam Geotechnics Limited																
4.	Responsibilities for Activities described within Method Statement																
	CSHK is responsible to inspect and carry out the construction works. The following persons, as listed in the table below, will attend the specific tool-box talk and be responsible for the activities:																
	<table border="1"><thead><tr><th>Company</th><th>Name</th><th>Position</th></tr></thead><tbody><tr><td rowspan="6">CSHK</td><td>HE Fengqiao, Anthony</td><td>Assistant Construction Manager (T4)</td></tr><tr><td>WONG Lai Yin, Jack</td><td>Engineer (T2)</td></tr><tr><td>LO Yik Fung, Andy</td><td>Engineer (T2)</td></tr><tr><td>WONG Yu Fung</td><td>Senior Foreman (T1)</td></tr><tr><td>CHEUNG Siu Kei</td><td>Superintendent (T1)</td></tr><tr><td></td><td></td></tr></tbody></table>	Company	Name	Position	CSHK	HE Fengqiao, Anthony	Assistant Construction Manager (T4)	WONG Lai Yin, Jack	Engineer (T2)	LO Yik Fung, Andy	Engineer (T2)	WONG Yu Fung	Senior Foreman (T1)	CHEUNG Siu Kei	Superintendent (T1)		
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	WONG Yu Fung	Senior Foreman (T1)															
	CHEUNG Siu Kei	Superintendent (T1)															
5.	Programme and Working Hours (Start & finish date of operation/works)																
	The major site works will be target to commence on April 2024 and target to be completed by Dec 2024 based on the latest agreed programme. When the work area is declared Construction Area, the general working hours will be from 08:00 – 19:00 daily, from Monday to Saturday. However, it may be required to carry out works from 19:00 to 23:00 and Sunday and Public Holidays in case of essential speeding up of the working process but it will subject to the CNP application approval.																

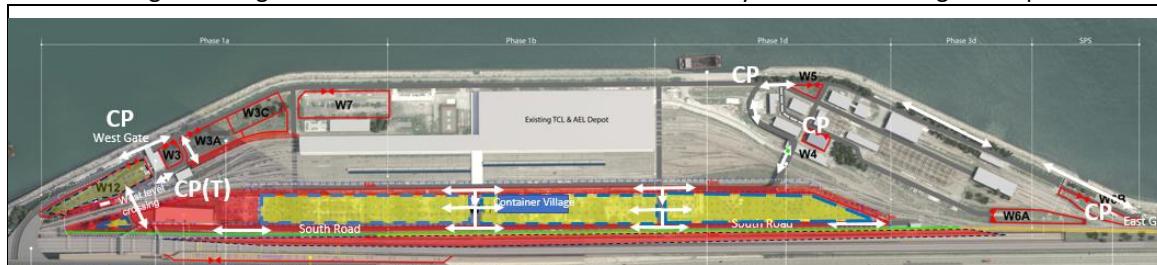
6.	Plant, Equipment & Material (Identify type, model and specification of MAJOR plant & equipment) <p>All plants and equipment will be inspected prior to the mobilization on site to ensure that they are in good working condition and comply with the current regulations.</p> <p>The major plants and equipment will be deployed to carry out the works are as follow: -</p> <table border="1"> <thead> <tr> <th>Plant / Equipment</th><th>Quantity</th></tr> </thead> <tbody> <tr> <td>Mobile Crane</td><td>1</td></tr> <tr> <td>Drill rigs</td><td>47</td></tr> <tr> <td>Crane Lorry</td><td>3</td></tr> <tr> <td>Generator</td><td>20</td></tr> <tr> <td>Water pump</td><td>20</td></tr> <tr> <td>Blower</td><td>20</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Manpower</th><th>Quantity</th></tr> </thead> <tbody> <tr> <td>Rigger</td><td>5</td></tr> <tr> <td>Banksman</td><td>5</td></tr> <tr> <td>Skilled labour</td><td>20</td></tr> <tr> <td>Crane operator</td><td>3</td></tr> <tr> <td>Drilling rig operator & labour</td><td>94</td></tr> </tbody> </table>	Plant / Equipment	Quantity	Mobile Crane	1	Drill rigs	47	Crane Lorry	3	Generator	20	Water pump	20	Blower	20	Manpower	Quantity	Rigger	5	Banksman	5	Skilled labour	20	Crane operator	3	Drilling rig operator & labour	94
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7.	Construction Methods / Construction Sequence Drawings <p>7.1 Preparation Work/Perquisite prior drilling Prior commencement of pre-grouting/pre-drilling work, utility detection, site formation and site clearance, erection of fencing which would be covered by separate method statements/EDOC.</p> <p>7.2.1 Logistics Arrangement: Plant, labour and material Scope of this method statement We proposed once works areas are fully enclosed by fencing or water filled barriers and declared as Construction Areas (CAs), RSI training and EDOC are not required for labour working in these areas. However, workers working in a distance less than 10m measuring from nearest track/OHL or any construction activities that may cause potential impact to the OA, the RSR and EDOC procedure still apply.</p> <table border="1"> <thead> <tr> <th></th><th>CA</th><th>Non-CA & OA</th></tr> </thead> <tbody> <tr> <td><10m Railway</td><td>EDOC required</td><td>EDOC required</td></tr> <tr> <td>>10m Railway</td><td>EDOC proposed not required (TBC with MTR)</td><td>EDOC required</td></tr> </tbody> </table> <p>This Predrill Method Statement & Presentation</p> <p>In the below layout, the red area refers to area where EDOC is required which the distance between the track and the working area is less than 10m method statement will be submitted separately. While the yellow area denotes where we propose EDOC is not required which the distance between the track and working area is greater than 10m. In this method statement, we would cover the yellow part for predrilling only.</p>		CA	Non-CA & OA	<10m Railway	EDOC required	EDOC required	>10m Railway	EDOC proposed not required (TBC with MTR)	EDOC required																	
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from the construction vehicles, shuttle escorted by escort vehicle would be arranged to directly carry the worker from West Gate to the Container Village at W11 via the West level crossing.

We would utilize the East gate once the vehicular access bridge is ready to use after May 2024. Similar safety procedure same as West Gate would be deployed. Nonetheless, we would hold regular workshops with RP/Yard master to go through current works within all CAs in order to identify and review any impact upon railway and/or depot operation. The rules and procedures for Railway Protection under the Railway Ordinance will be in accordance with Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers (PNAP ADV-33 / APP-24) and MTRCL working paper No.6-Railway Protection-Revision B-December 2022.

The detail of general logistics should refer to the submitted security and traffic management plan.



General layout for access to W11 and W12 through West Gate

In each work area, there will be welfare facility and designated smoking points provided for workers. In each of smoking points, preventive fire measures would be provided as below.

- Facilities for Smoke Area**
- Cigarette Butt Receptacle
 - Fire Extinguisher
 - Sand Bucket

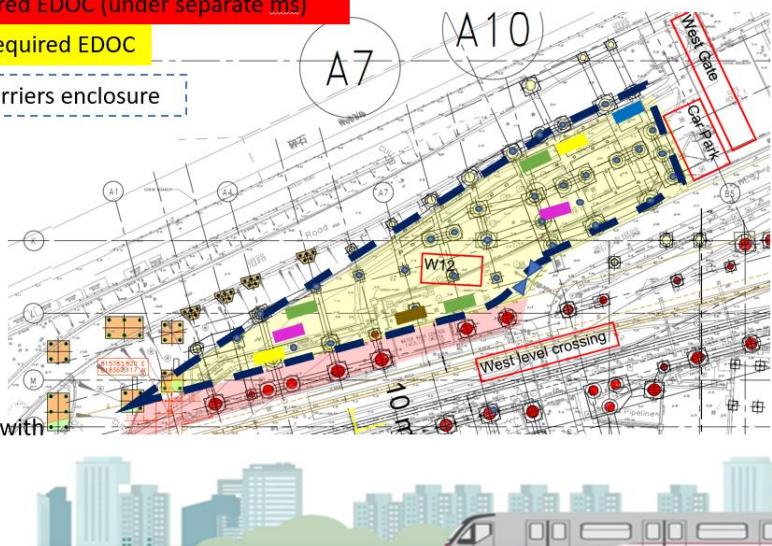


Preventive fire measures at smoking point

Below shown the blow-up detail for W12

W12 layout

- Bored pile required EDOC (under separate ms)
- Bored pile not required EDOC
- Water filled Barriers enclosure
- Drilling rig
- Storage area
- Predrill location
- Wetsep
- Generators
- Resting Facility with smoking point



小蠔灣車廠物業發展
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General layout for W12

Car park for EV charging would be reserved while setting up the water filled barriers around the works area. In the morning, workers would send to container village at W11 first for briefing and changing. After that, they will go to W12 by shuttle bus.

Below shown the blow-up detail for W11 (in 3 sections):

W11 layout

- Storage area
- Generators
- Predrill location
- Wetsep
- Resting Facility with smoking point
- West level crossing

小蠔灣車廠物業發展
Siu Ho Wan Depot Property Development

Drilling rig

- Bored pile required EDOC (under separate MS)
- Bored pile not required EDOC
- Water filled Barriers enclosure

General layout for W11 (West)

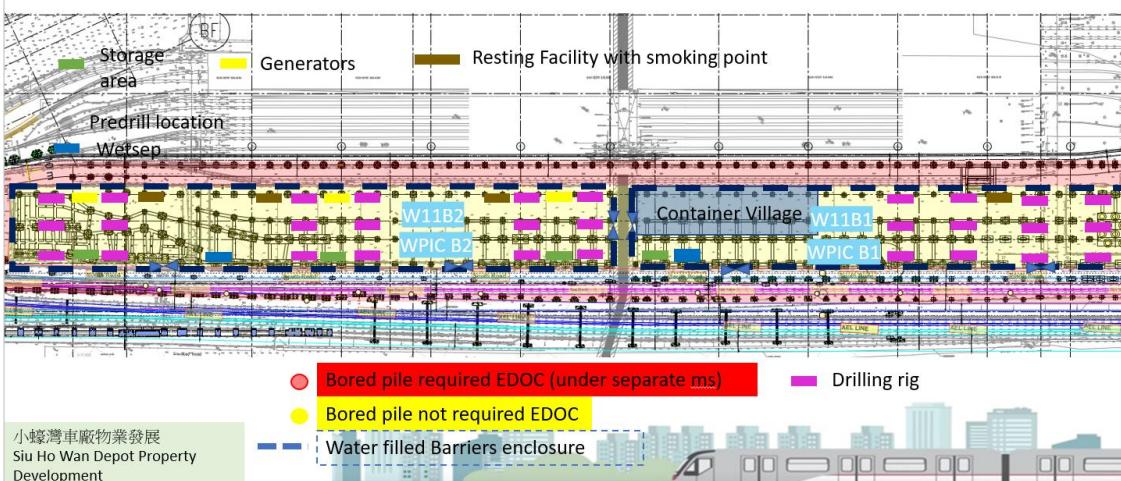


中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LIMITED

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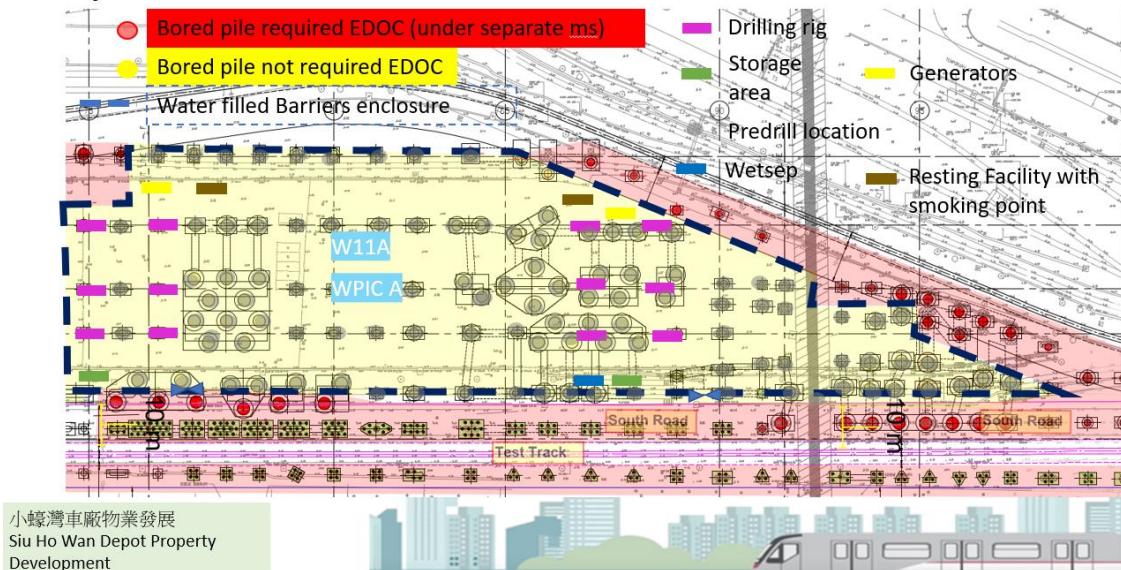
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W11 layout



General layout for W11 (Middle)

W11 layout



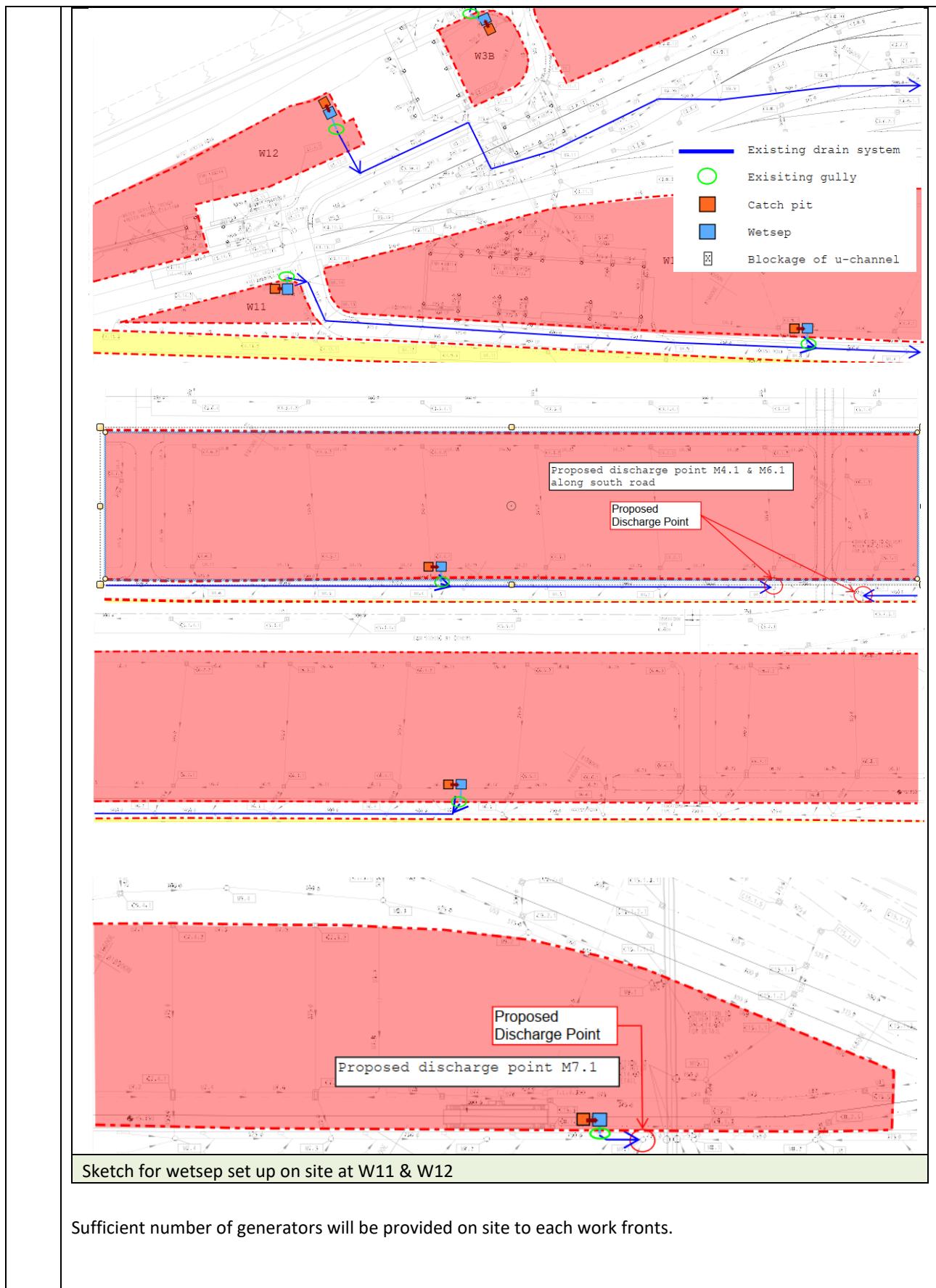
General layout for W11 (East)

W11 would be divided into 3 major sections and at each section there will be an individual WPIC to supervise the construction activities. Each section would be fenced off and there will be also multiple gate openings reserved for exit and entry to prevent labours going around the site.

7.2.2 Logistics Arrangement: Temp water and electricity supply

During first few months of the project, temporary water would be sourced from the drainage pipe along the south road to W11. A 200mm recessed would be formed to bury the drainage pipe to across the South Road which is subjected to depot's approval and we would follow depot's procedure for obtaining the water.

	<p>Sketch for pipe sleeve under South Road to W11</p> <p>The sketch illustrates the connection between the 'South Road' and 'W11' areas. It shows a vertical orange cylinder labeled 'CSHK WFBs' positioned above a blue drainage pipe. The pipe is shown with a '200mm cover recess to reserve the drainage pipe'. Labels include 'South Road', 'Existing drainage pipe along South Road', 'South Road Pedestrian walkway', 'MTR fencing', and 'Test Track'. A note at the bottom left states: '*Detail covered by separate method statement/'.</p> <p>Sketch for pipe sleeve under South Road to W11</p> <p>(1) Project's team colleague to read the Contractor's usage monthly and obtain the Contractor's agreement on the monthly usage. (2) Project's team to pass the agreed usage to Control & Support Officer - Opt&Metro - OpsPerf&Supp-Ctl&Sup for calculation of the water costs with management cost (3) CMD's colleague to provide the calculation of the water costs to the Contractor to obtain their agreement before formal issuance of debit note/ invoice. (4) Asst Fin Mgr-Railway Cost Ct (Fin Control-HKTS) to issue the debit note/ invoice to the Contractor directly. (5) The Contractor to pay MTRCL directly. (6) Water usage record (i.e. Meter readings) to be emailed to SHD Dev. for reference each month.</p> <p>After connection to WSD water point at Tai Ho interchange, drainage pipe would be connected from Tai Ho Interchange and to W11 via the West level Crossing. Detail of connecting through the West Level Crossing shall refer to separate submission. Multiple location of Wetsep across the W11 and W12 to discharge the treated waste water. Below shown the sketch for the provision. Wetseps location at W11 and W12 are shown below. The water would be treated first at Wetsep and then discharged into nearest manhole which eventually leads to discharge of box culvert. Details may further subject to depot's approval and please refer to the method statement of temporary water supply and discharge. B</p>
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7.3.1 Utility detection

At each drill hole location, cable detection will be carried out by competent person. The details of utility detection shall refer to separate method statement submission.

7.3.2 Setting Out

Location of drill hole will be set out using conventional surveying techniques and, marked out on site before proceeding and to be checked by MTR before work commencement. The setting out of each drill holes with ground level shall be taken after set up. The level of top of drill hole shall be taken after drilling.

7.3.3 Trial pits of each predrill hole

After utility detection, a trial pit for each predrill holes with area about 200mmx200mm and 2.5m from existing ground level will be hand excavated by hand auger with PVC pipe sleeve to ensure the proposal drill hole location is free from any clearance of obstruction and underground utility. Permit to dig system for excavation of inspection pit shall be implemented. If and doubt exists regarding the drilling safety or public safety, an alternative drill hole position will be arranged for prior agreement with the Project Manager.

The position of pre-drill would be the same as the location of trial pit. In view of obstruction of potential underground utilities and boulders, the location of trial pit / pre-drill would be deemed acceptable with respect of the following circumstance:

1. For trial pit / pre-drilling of bore piles, the trial pit / pre-drill location should be within the bore pile casing.
2. For trial pit / pre-drilling of socket H piles, the trial pit / pre-drill location should be carried out such that the toe of every pile is within 5m distance from a trial pit / pre-drilling hole.

In case the pre-drill hole encounters UU or other underground obstruction and could not fulfill the condition stated above and therefore require pre-drill hole relocation, the contractor shall submit the alternative pre-drill hole location for MTR-CM & DM/DDC/TCP review and agreement.

7.3.4 Instrumentation and Monitoring

Instrumentation and monitoring shall be installed and monitored prior to pre-drilling works commence with method refer to separate method statement via submission no. 1701-W-000-CSC-760-000138.

7.4 Method of Drilling and sequence

Logistics and Delivery of drilling rig

For lifting/mobilization of drilling rigs, crane lorry will be used at the works area. The lifting capacity is reduced to 80% of the crane lorry. Apart from drilling rig, empty water tank and casing with hanger would be delivered to works area also by crane lorry. The LALG certificates would be provided checked prior lifting. Lifting plan will be submitted separately. Permit to lift system will be applied on site prior lifting.

All pre-drilling works shall be carried out by a specialist contractor who is under the "List of Approved Suppliers of Materials and Specialist Contractors in Public Works" in the Ground Investigation Field Work Category or in the Soil and Rock Testing Category. The sequence of work shall be carried out in compliance with the BD Approved drawings. This scope comprises of land vertical drill holes together with in situ tests for the determination of foundation levels and is described in the general notes of the drawings.

The works shall include:

- Rotary wash boring and rock coring of pre-drill holes for Pile and Instrumentation (Piezometer / Standpipe/ Inclinometer/ Magnetic Probe Extensometer)
- Standard Penetration Test



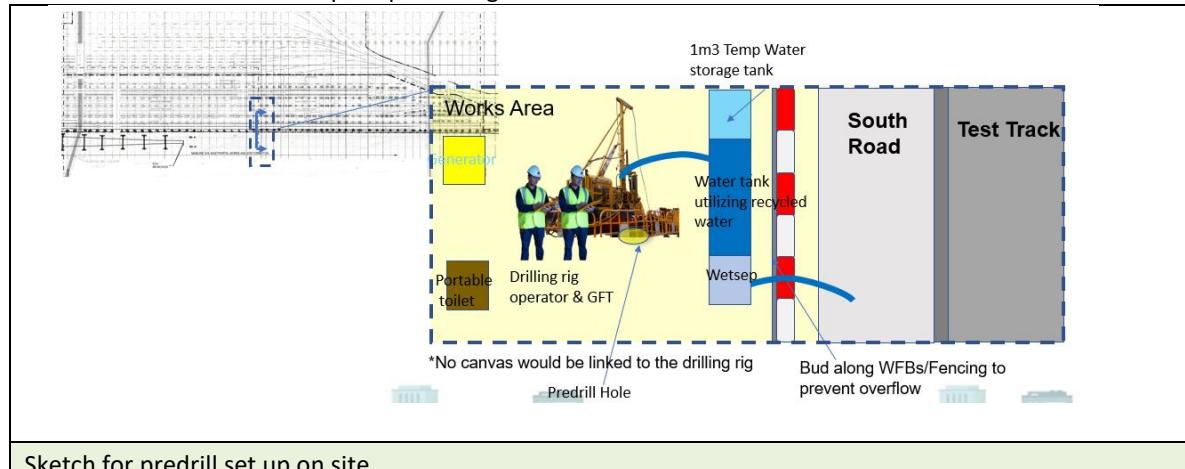
Drilling, Sampling and in-situ testing will be performed in accordance with the Material Works (M&W) requirement, Section 24: Ground Investigation.

A Geotechnical Field Technician (GFT) would be provided full-time on-site supervision on ground investigation field works. GFTs shall be provided for all working drilling rig deployed. Separate competent persons (CP(Logging)) would carry out the logging and preparation of borehole logs. CP(Supervision) would supervise on site different stages of ground investigation field according to Appendix 1 (SC-GIFW). The curriculum vitae of the GFT/CP (loggings & supervision) would be submitted separately.

The size of core barrel shall refer to Table 5 -Sizes of Commonly-used Core-barrels, casing and Drill Rods Used in Hong Kong in Geoguide 2 where T2-76 with nominal core diameter 62mm and nominal hole diameter 76mm would be adopted.

The drill hole will be performed by rotary method using skid-mounted rotary drilling rigs and water as flushing medium. **The verticality of drill rig will be checked by spirit level before drilling operation.** The drilling technique utilized a drill head swivel providing rotation when coupled with drill rods. The ground condition will be checked by the drilling operator, geotechnical field technician with area foreman before mobilise and unloading the drilling rig. The hydraulic feed-type drilling rig with sufficient capacity will be mounted on stable ground, enabling the rig to operate with minimum movement and thus improve the accuracy in drill hole orientation.

Below sketch shown the set up for predrilling



Sketch for predrill set up on site

Workers would be briefed that no canvas shall be erected as sun shield or for any purpose on site at any time not just linking to drilling rig not allow to prevent the canvas from blowing off to other track area. Water tank and wetsep would be provided to recycle the water as much as possible. Water would be treated first at Wetsep and would then be discharged to nearest manhole and discharged finally near the box culvert. Prior approval from Depot is required to discharge into existing manhole in SHD.

Detail layout shall refer to the separate temp water supply/discharge method statement.

When the termination level achieved, the last rock sample shall be obtained under the supervision of the MTR Representative and the depth of the drill hole shall be measured by the MTR Representative.

The termination criteria for the predrilling works of large diameter bored pile as follows:-

Pre-drilling works shall be sunk at least 5m into category 1c or better rock with total core recovery not less than 85% and with uniaxial compressive strength (UCS) not less than 25MPa or point load index (PLI/50) not less than 1MPa (i.e. Category 1c in table 2.1 of code of practice for foundations 2017) or the designed rock socket length of the nearest pile, whichever is deeper. (BD approved drawing no. C1701/B/SHD/OAP/C01/211. Rev. C, pre-drilling notes no.3 for bored pile refers)

Or

"...The total core recovery shall be proved to a depth of at least 5m below the founding level." (BD approved drawing no. C1701/B/SHD/OAP/C01/111. Rev.E refers).

Which ever is deeper.

The termination criteria for the predrilling works for **socketed H-piles** as follows:-

Pre-drilling works shall be sunk at least 5m into category 1c or better rock with total core recovery not less than 85% and with uniaxial compressive strength (UCS) not less than 25MPa or point load index (PLI/50) not less than 1MPa (i.e. Category 1c in table 2.1 of code of practice for foundations 2017) or the designed rock socket length of the nearest pile, whichever is deeper. (BD approved drawing no. C1701/B/SHD/OAP/C01/212. Rev. D, pre-drilling notes for socketed H-Piles refers)

Or

"All pile shall be socketed into grade III or better rock with total core recovery not less than 85% and with unconfined compressive strength (UCS) not less than 25MPa or point load index (PLI50) not less than 1MPa (i.e. category 1(C) in table 2.1 of code of practice for foundations 2017). (BD approved drawing no. C1701/B/SHD/OAP/C01/212. Rev. D Notes for socketed H-pile refers)

Which ever is deeper.

All the flushing water generated during drilling work will be collected and pumped to sedimentation tank for recycling and will be pumped back to the drill holes

After obtaining the last rock sample and complying with the termination requirement, Geologist shall log the drill hole information with soil and rock description. The logged information shall then be passed to the Geotechnical Engineer Representative for drill hole report preparation.

7.5 Sampling

By using the rigs hydraulics, the drilling carriage is raised and the sampler is screwed and attached onto the anvil adaptor. The carriage is then lowered until the tentative sampling level. The hydraulic cylinder of the drilling rig is lowered and the drop-weight is activated, driving the sampler into the ground. Once the sampling tube has been driven to its full length, the hydraulic cylinder is activated pulling the sampler from the ground.

After retrieval of sample, casing will be drilled for the flushing cleaning of hole before next sampling. Then, sampling will be continued by successively adding drill rods between the sampler and the anvil adaptor. The length of core runs for the rock sample is 1.5m.

7.6 Sample Handling

All Core samples shall be stored in core boxes which shall be of sound robust timber construction and be able to withstand the weight of the cores. The Contract numbers, drill hole number, depth, date of drilling shall be clearly marked on the side, inside and outside lid of the core box with permanent ink. Rope strands shall be



attached to the core box for lifting. Core boxes shall be made with rigid separating wooden slats and shall be about 1.0m long. The core boxes shall be stored off site at Tsing Yi (TY) located with plastic cover sheet.

7.7 In-situ Test

Standard Penetration Tests

For pre-drill hole, Standard Penetration Tests (SPT) will be commenced from 3.0 m below ground level or immediately at the base of the inspection pit and thereafter at the 2.0m intervals in the drill holes within common ground.

The tests will be carried out in accordance with BS1377:1990. The SPT hammer comprises a 63.5 kg donut hammer with automatic trip mechanism and drop height of 760mm. The results will be given on the daily site and drill hole records. The 'N' value given on the drill hole records will be the number of blows required to drive the split barrel sampler through 300mm (after completion of the seating drive). If full penetration is not achieved, the number of blows and corresponding penetration will be indicated accordingly.

For each pre-drill hole, three nos. of point load strength tests as directed by the RSE/RGE's representatives shall be carried out for the rock cores recovered from each pre-drilling to confirm the rock strength. The pre-drilling records and point load strength test results shall be submitted to the RSE/RGE's representatives 14 days or agreed period prior to commencement of the pile construction.

The Termination Criteria of SPT of Bore Pile should be followed to the latest BD approved drawing with no. :- C1701/B/SHD/OAP/C01/211 (current latest version is "C"). Appendix D1 refers.

The Termination Criteria of SPT of Socket H-Pile should be followed to the latest BD approved drawing no. :- C1701/B/SHD/OAP/C01/212 (current latest version is "D"). Appendix D1 refers.

7.8 Backfilling

Upon completion, drill hole will be backfilled by tremie method with water/cement ratio 1:2 or a cement-bentonite grout with portion about 4:1. With no more water than is necessary to permit the grout to flow or be pumped. On completion of drilling, the drill casing will be withdrawn to the soil/rock interface. A N size drill rod, use as tremie pipe, will be placed to the end of the drill hole. The grout will be pumped into the drill hole via the tremie pipe. The strength of tremie grout should be over 60MPa at 28 days according to latest BD approved drawing with no. :- C1701/B/SHD/OAP/C01/211 (current latest version is "C") for bore pile and C1701/B/SHD/OAP/C01/212 (current latest version is "D") for socket H-pile.

7.9 Reporting

Recovered cores will be placed in core boxes then labelled with the following information:

- Hole Number
- Box Number
- Depth range of core
- Date of drilling

Daily Site Records will be kept for all activates detailing a chronological diary of the work. Drilling records shall be kept for all drilling activities. The detail of the records kept will depend on the type of drilling works.

During the course of the Works, a daily record sheet shall be submitted to the RSE/RGE's site representative, in the agreed format, containing the information required by the Specification within 1 working day or agreed



	<p>period after the field operations to which they refer have been carried out. The format of daily record sheet and preliminary log sheet shall be submitted to the RSE/ RGE's site representative for approval before work commences.</p> <p>The recovered core will be logged by geologist approved as a Competent Person in accordance with PNAP 132, Code of Practice for Site Supervision 2009 and Technical Memorandum for Supervision Plan 2009. Details of stratification are described using the checklist for soil descriptions and the guidelines laid out in GEOGUIDE 3 "Guide to Rock and Soil Descriptions".</p> <p>All cores shall be stored safely on-site during drilling and sent to lockable container at Tsing Yi for secure storage eventually.</p> <p>Preliminary daily site record, in-situ test record and drill hole log will be submitted after the completion of each drill hole for Engineer's comment. A final factual fieldwork report with core boxes, incorporated with Engineer's comment will be submitted.</p> <p>When each pre-drilling is completed, 1 copy of the preliminary logs together with the relevant colour core photographs shall be submitted to the RSE/RGE's site representative shall be submitted to the RSE/RGE's site representative within 3 days or agreed period.</p> <p>Rockhead contour plan based on the ground investigation and pre-drilling shall be submitted to AP/RSE/RGE upon completion</p>
8.	<p>Safety (Risk Assessments)</p> <p>Risk Assessment/Hazard log attached in Appendix A has been prepared for all general activities. Specific safety procedures and precautions have been developed for all site operatives to follow. The Construction Team Leader together with the Safety Department, will supervise the implementation and make adjustment according to the actual site operations, in order to maintain a safe and amicable working environment.</p> <p>General Site Safety</p> <p>With reference to the Project Safety Plan, the following items need to be instituted through the course of the works described within this method statement. All workers shall receive Railway Safety Induction training and follow Railway Safety Rules (RSR) inside working in the non-Construction Area.</p> <p>The contractor's person-in-charge (WPIC) shall be present at the work site at all times of work. The responsible person shall ensure that all sources of ignition are removed, all power supplies are isolated, and the work site is in a safe condition before leaving the site. Individual WPIC would be arranged for each works area.</p> <p>CP(T) or CP (NT) shall be full time looking after the railway safety and report to the SHD Depot Control Centre daily before and after the construction works. Trucks and workers shall be restricted to use a designated route as delivery and worker's pedestrian route within the site which shall be further agreed with the SHD Manager / YM. Details shall refer to separate Logistics and Security management plan.</p> <p>No construction works shall be carried out within 3.0m from the nearest railway track alignment.</p> <p>No storage of additional fuel for the rigs/plants is allowed. Fire Marsh would be provided for hot works such as welding if required.</p>

	<p>Proper personal protective equipment shall be employed at all times of works.</p> <p>Risk Assessment</p> <p>All the potential hazards, consequences and mitigations will be analysed in the risk assessment attached in the Appendix A.</p>
9.	<p>Environmental (Environmental aspect & impact identification as well as mitigation measures)</p> <ul style="list-style-type: none">- The works shall follow relevant mitigation measures as required under the Environmental Permit (EP) / EP submissions and Contractor's Environmental Management Plan (EMP)- All the waste water generated during predrilling will be recycled before discharge.- General works shall be carried out during normal hours from 08:00 am to 07:00 pm. No works will be carried out after 07:00 pm on Sunday or public holiday without approval construction noise permit.- All chemicals will be placed on drip tray.- All regulated NRMM should display a NRMM label.- Sand bags or bund wall shall be erected around the drilling rigs to prevent the excessive water runoff to the surrounding area. Tarpaulin sheets and curtains screening will be provided on the rigs to prevent spread of dust and muddy water during drilling works.- ULSD diesel will be used in all PME.- QPME plants will be used if available.
10.	<p>Quality Control (Inspection and Test Plan including hold points)</p> <p>Refer to Appendix B for Inspection and Test Plan.</p> <p>To ensure the attainment of the required standard of works, the methods of working and the required works standards / acceptance criteria are defined in the method statement, inspection & test plans, and are communicated to relevant staff and workers carrying out the works. Day to day routine inspections of the works will be carried out by the Construction Team Leader, Site Engineers and Foreman as appropriate, to ensure that all works are performed following the requirements of these documents.</p> <p>Specific quality checks shall be carried out in accordance with the approved Inspection & Test Plan with "Hold Points" at critical elements for confirmation of compliance before proceeding further.</p> <p>Request for Inspection and Survey Check (RISC) shall be issued to the RSS following inspection of the works by the CSHK's project team. The Inspection & Test Plan for the works (Appendix B) will identify all Hold Points and Witness Points.</p> <p>Following the Inspection & Test carried out, inspection and / or test records are to be prepared to indicate whether the specified requirements have been met. Records of Inspection and testing will be maintained and kept available for inspection and final handover as appropriate.</p>



11.	Appendices (Identify and include additional information in the submission package)
	<p>Appendix A – Risk Assessment Appendix B – Inspection and Test Plan (ITP) Appendix C – Catalogue for Predrill Equipment Appendix D – Pre-drill Drawings Appendix D1 – BD Approved General Notes Drawings for Predrilling Works Appendix E – Emergency Contact List</p>

