



3 October 2017

Dear Sir,

Tender Reference No. (325) in P/AE/PUR/AGC Invitation to Tender for Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council

You are invited to submit a tender for Provision of Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council as specified in the tender documents.

- 1. Your tender proposal, **in copies specified in the tender**, should be submitted in two separate sealed envelopes.
- The tenderer shall deposit two <u>separate</u> sealed envelopes with labels as specified below into the tender box located at CIC Headquarters - 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon, Hong Kong <u>not later than 12:00 noon</u> <u>on 2 November 2017.</u> Late tenders will NOT be considered.
 - a) Label with "Technical Proposal" for Provision of Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council "
 - b) Label with "Fee Proposal" for Provision of Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council "

Please note that the envelope labelled with "Technical Proposal" shall <u>NOT</u> include any pricing details. Failure to do so will render the tender null and void. Tenders submitted after the above time or tenders deposited at places other than that stated above will <u>NOT</u> be considered.

Checklist for Submission of Tender

Please go through the following checklist to ensure that all necessary information and documents for the tender have been provided in your tender submission. Please note that the checklist is for guidance and reference purposes only and shall not be deemed to form part of the Tender Document. The address labels at the bottom of this checklist may be used on the envelopes for submitting the tender.

Tenderers should note that their tenders may be invalidated if the information in the tender submission is incorrect or the required documents are not provided together with the tender document.

-	Particulars Reference				
Te	chnical Proposal				
1.	Organisation of Proposed Project Team [Mandatory Requirement]	Conditions of Tender, Appendix A Clause 1.1 [Technical Proposal]			
2.	Qualifications of Proposed Project Team [Mandatory Requirement]	Conditions of Tender, Appendix A Clause 1.2 [Technical Proposal]			
3.	Tenderer's Track Record & Project Reference [Mandatory Requirement]	Conditions of Tender, Appendix A Clause 2.1, 2.2 and 2.3 [Technical Proposal]			
	Approach and work programme to (i) fulfill the technical requirements and (ii) deliver all deliverables outlined in the Assignment Brief and its Annexes [Mandatory Requirement]	Conditions of Tender, Appendix A Clause 3.1 [Technical Proposal]			
5.	5. A duly completed Standard Letter for complying with Anti-Collusion Clause Conditions of Tender, Appendix B [Technical Proposal]				
6.	A duly signed CIC's General Conditions of Contract and Guidelines for Works or Services (2b)-CAR				
7.	All documents mentioned in the Technical Assessment Marking Scheme	Conditions of Tender, Appendix E [Technical Proposal]			
	8. Statements of Convictions under Cap. 115, Cap. 59 and Cap. 57, Outline Health & Safety Plan, and General Building Contractor Registration or Minor Works Contractor Registration				
	Proposal				
	Form of Tender	Conditions of Tender, Appendix C [Fee Proposal]			
10.	Fee Proposal	Conditions of Tender, Appendix D [Fee Proposal]			

Note: Items marked as 'Mandatory Requirements' are particulars that MUST be submitted under the Technical Proposal. Non-compliance with the Mandatory Requirements may lead to the tender submission being not considered for tender evaluation.

Construction Industry Council

Provision of Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council

Please adhere the following labels on separate sealed envelope of your submitted tender.

Construction Industry Council (CIC)

"Confidential"

×

Technical Proposal	The Tender Box 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong,
	Ref. No.: [(325) in P/AE/PUR/AGC] Provision of Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council
Name of Tenderer:	
	Closing Time and Date: 12:00 noon on 2 November 2017
"Confidential"	
,	Construction Industry Council (CIC) The Tender Box
Fee Proposal	38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon, Hong Kong
	Ref. No.: [(325) in P/AE/PUR/AGC] Provision of Design, Project Management and Fitting Out Works
	for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council
Name of Tenderer:	
	Closing Time and Date: 12:00 noon on 2 November 2017

- 3. The tenderer shall provide the completed 'Application Form for Inclusion in the CIC Vendor List' as provided in the tender invitation, containing basic information of the interested tenderer (For Non-CIC Registered Vendor only).
- In the event of Typhoon Signal No. 8 or above, or Black Rainstorm Warning is hoisted on the tender closing date, the closing time will be postponed to 12:00 noon of the next working day.
- 5. Construction Industry Council is not bound to accept any proposal it may receive. In addition, it will reject bids which are considered to have been priced unreasonably low.
- 6. It should be noted that the Council will not be responsible for the reimbursement of any cost incurred by you for the preparation of the submission.
- 7. The invited tenderer who has decided to decline the bid shall return the Reply Slip for Declining Bid provided in Appendix F of the Conditions of Tender.
- 8. There will be a tender briefing and site visit session at 2:00 p.m. on 13 October 2017, the Main Entrance of the Aberdeen Trade Testing and Training Centre, 95 Yue Kwong Road, Aberdeen, Hong Kong. Interested tenderers shall complete and return the reply slip Appendix G by fax 2100 9439 or e-mail: winnieto@cic.hk no later than 5:00 p.m. on 12 October 2017 confirming the attendance of the said tender briefing and site visit session and state clearly the number of attendees for CIC's arrangement.
- 9. There will be an interview session on **10 November 2017**. The CIC will inform the detailed interview time to the shortlisted tenderers after the tender close on 2 November 2017.
- 10. The tender documents can be downloaded from CIC's website: http://www.cic.hk .
- 11. For queries regarding this tender invitation or/and tender process, please contact Ms. Winnie To, Assistant Manager, Procurement, on telephone 2100 9088 or via e-mail: winnieto@cic.hk

Yours sincerely,

Justin WONG

Manager – Projects & Contracts Administration

Encl.

Tender Documents

for

Design, Project Management and Fitting Out
Works for Trade Test Service Centre

of

Model Trade Test Centre

for

the Construction Industry Council

Employer

Construction Industry Council (CIC) 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon, Hong Kong

October 2017

<u>Design, Project Management and Fitting Out Works for Trade Test</u> <u>Service Centre of Model Trade Test Centre</u>

<u>for</u>

the Construction Industry Council

List of Tender Documents

1.	Conditions of Tender	Page CT-1
2.	Appendices to Conditions of Tender	
	Appendix A – Details for Submission of Tender	CT-10
	Appendix B – Standard Letter for Complying with Anti-Collusion Clause	CT-14
	Appendix C –Form of Tender	CT-16
	Appendix D –Fee Proposal	CT-18
	Appendix E –Tender Evaluation Procedures and Criteria	CT-92
	Appendix F – Reply Slip for Declining Bid	CT-95
	Appendix G –Reply Slip for Tender Briefing and Site Visit Session	CT-97
3.	Special Conditions of Tender	SCT-1 to SCT-4
4.	Assignment Brief and its Annexes	AB-1 to AB-107
5.	Memorandum of Agreement	MA-1 to MA-3
6.	General Conditions of Employment	CE-1 to CE-24
7.	CIC's General Conditions of Contract and Guidelines for Works or Services (2b) – CAR	8 Pages
8.	Contractor's Safety Requirements	10 Pages

Conditions of Tender

for

Design, Project Management and Fitting Out
Works for Trade Test Service Centre

of

Model Trade Test Centre

for

the Construction Industry Council

Table of Contents

Cla	use	Page
1	Notes to Tenderers	CT-2
2	Invitation	CT-2
3	Tenderers' Response to CIC Enquiries	CT-2
4	Completion of Tender	CT-4
5	Tender Briefing and Site Visit Session	CT-6
6	Tender Interview	CT-7
7	Tender Evaluation	CT-7
8	Tenderer's Commitment	CT-7
9	Amendments	CT-8
10	Award of Contract	CT-8
11	Rights to Exercise	CT-8
12	Submitted Documents	CT-8
13	Enquiries	CT-9
AP	PENDIX A – Details for Submission of Tender	CT-10
AP	PENDIX B – Standard Letter for complying with	
	Anti-Collusion Clause	CT-14
AP	PENDIX C – Form of Tender	CT-16
AP	PENDIX D – Fee Proposal	CT-18
AP	PENDIX E – Tender Evaluation Procedures and Criteria	CT-92
AP	PENDIX F - Reply Slip for Declining Bid	CT-95
AP	PENDIX G – Reply Slip for Tender Briefing and Site Visit Session	CT-97

1 Notes to Tenderers

- 1.1 All tenderers shall read the instructions contained in this Conditions of Tender carefully prior to preparing their tender submissions. Any tender submission, which does not follow these instructions is deemed to be incomplete and may be disqualified.
- 1.2 The tender documents consist of:
 - a) Conditions of Tender;
 - b) Appendices to Conditions of Tender;
 - c) Special Conditions of Tender;
 - d) Assignment Brief and its Annexes;
 - e) Memorandum of Agreement;
 - f) General Conditions of Employment;
 - g) CIC's General Conditions of Contract and Guidelines for Works or Services (2b) CAR;
 - h) Contractor's Safety Requirements

2 Invitation

- 2.1 Tenderers are invited by the Construction Industry Council (hereinafter referred to as the "CIC") to submit proposal and bid for Design, Project Management and Fitting Out Works for Trade Test Service Centre. Further details are given in the **Assignment Brief and its Annexes.**
- 2.2 The tender shall be submitted in accordance with the **Conditions of Tender**.
- 2.3 If the tender is accepted and the contract is awarded, the tender documents specified in Clause 1.2 above, the tender proposal submitted by the tenderer and other relevant contract correspondence as agreed by the tenderer and CIC will form part of the contract.

3 Tenderers' Response to CIC Enquiries

3.1 In the event that the CIC determines that clarification of any tender is necessary, it will advise the tenderer to supplement its tender. Unless otherwise specified in the request for clarification, the tenderer shall thereafter have 3 working days to submit such requested information. Any clarification made shall be at the tenderer's own cost and expense.

4 Completion of Tender

- 4.1 The tenderer is required to submit all information specified in **Appendix A** of the Conditions of Tender and the **Special Conditions of Tender** with his tender. In addition, the tenderer shall submit with his tender a duly signed and witnessed letter in the form set out in **Appendix B** of the Conditions of Tender. Should the tenderer fails to submit this letter with his tender, his tender will not be considered.
- 4.2 If CIC's participation is required, the tenderer should clearly state the details and the expected resources, skills, level of participation, responsibilities, and duration.
- 4.3 The tenderer shall state in his proposals the implementation plan of delivering the deliverables as described in the **Assignment Brief and its Annexes**.
- 4.4 The tenderer must submit his offer in Hong Kong Dollars. **OFFERS SUBMITTED IN OTHER CURRENCIES SHALL NOT BE CONSIDERED.**
 - a) The tenderer is required to submit the completed **Form of Tender as per Appendix C** of the Conditions of Tender.
 - b) In addition, the tenderer is required to submit **the Fee Proposal** using the prescribed form provided in **Appendix D** of the Conditions of Tender. There shall be no adjustment for any price fluctuations; and
 - c) The tenderer should ensure that the fee quoted is accurate before submitting the tender. Under no circumstances will the CIC accept any change of quoted lump sum fee on the ground that a mistake has been made in the tender price.
- 4.5 A two-envelope approach is adopted for tender submission, i.e. the tenderers should submit all information specified in **Appendix A** of the Condition of Tender and the **Special Conditions of Tender**, and the letter annexed in **Appendix B** and mentioned in Clause 4.28 of the Conditions of Tender (collectively known as "technical proposal") in one envelope and the completed Form of Tender using the prescribed form provided in **Appendix C** of the Conditions of Tender and the Fee Proposal using the prescribed form provided in **Appendix D** of the Conditions of Tender (collectively known as "fee proposal") in a separate envelope. Failure to do so will render the tender void.
- 4.6 The tenderer shall submit **THREE** (3) hard copies and corresponding files in electronic form (e.g. in MS Word 2003 / MS Excel 2003 / PDF format) stored in an electronic medium (eg: CD-ROM) of the technical proposal in a sealed envelope marked "Technical Proposal" and **TWO** (2) hard copies of the fee proposal in a separate sealed envelope marked "Fee Proposal" clearly indicating the tenderer's name and tender title. In the event of discrepancies between original and electronic versions of the Tender Submission, the former shall prevail.
- 4.7 Tender should be submitted to the Tender Box of CIC at 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon, Hong Kong by 12:00 noon on 2 November 2017. Late submission will NOT be considered. Failure to do so shall render the tender void.

- (325) in P/AE/PUR/AGC
- 4.8 In the event that a Typhoon Signal No. 8 or above or Black Rainstorm Warning is hoisted on the tender closing date, the tender closing time will be postponed to 12:00 noon on the following working day.
- 4.9 The CIC will not reimburse any cost incurred by tenderers for the preparation and submission of the tender.
- 4.10 The CIC may reject a tender which is unreasonably low in terms of price and may therefore affect the tenderer's capability in carrying out and complete the services and delivering the deliverables in accordance with the Assignment Brief and its Annexes.
- 4.11 Any amendments to the rates offered must be signed by the person who signs the tender. Failure to do so will render the tender null and void.
- 4.12 Unless otherwise stated, tenders shall be valid for 120 days from the specified closing date. If no letter of acceptance or order is placed within the validity period of the offer, the tenderer may assume that the offer has not been accepted.
- 4.13 This is an invitation to offer. The CIC is not bound to accept the lowest tender or the highest combined scores under the technical and fee proposal or any tender. The CIC reserves the right to accept or omit any individual item or whole section of a tender without price alteration to the items or sections accepted. The tenderer hereby acknowledges that there will not be any loss of profit claim as a result of the reduction in the scope of works.
- 4.14 The CIC reserves the right to negotiate with any or all tenderer(s) on the terms of the tender.
- 4.15 Tenderer should ascertain the prices quoted are accurate before submitting his tender. Under no circumstances will the Employer accept any request for price adjustment due to any mistake made in the tender prices.
- 4.16 The CIC shall have the right, in its absolute discretion, to disclose to any person and for any purpose, any information submitted to the CIC as part of the tender or otherwise in connection with the awarded contract, without further notification to the successful tenderer. In submitting the tender, the tenderer irrevocably consents to such disclosure.
- 4.17 In the event that a tenderer discovering a genuine error in his tender after it has been deposited, he may in writing draw attention to the error and submit amendment which may be accepted, provided that the amendment has been deposited on or before the closing time fixed for the receipt of tenders.
- 4.18 The tendered sum will be regarded as a lump sum tender and will not be amended for errors found in the examination of tenders.
- 4.19 Should examination of a tender reveal errors of such magnitude as in the opinion of the CIC would involve the tenderer in serious loss then the nature and amount of such errors will be communicated to the tenderer and he will be asked to confirm in writing that he is prepared to abide by his tender.

- 4.20 The tenderer shall be required to check the numbers of the pages of the tender documents against the page numbers given in the contents. If the tenderer finds any missing, in duplicate or indistinct, he must inform the CIC at once and have the same rectified.
- 4.21 Should the tenderer for any reason whatsoever be in doubt as to the precise meaning of any item or description, he must inform the CIC in order that correct meaning may be decided before the date for submission of tender.
- 4.22 Tenderer shall inspect the Site and make themselves thoroughly acquainted with the existing condition of the premises, location, the existing structure / accessibility, restrictions for loading and unloading materials, and all the materials, and all other aspects which may affect the delivery of the deliverables. Tenderer shall make due and proper allowance when estimating their rates and prices for the information obtained or which ought to have been obtained during the site inspection.
- 4.23 No liability will be admitted, nor claim allowed in respect of errors in the tenderer's tender due to mistakes in the tender documents which should have been rectified in the manner described above.
- 4.24 Tenderer shall be deemed to be in possession of a valid business registration certificate and, if necessary, be registered with the relevant authority authorizing him to carry out the works described in the tender documents.
- 4.25 Tenderer shall comply with the CIC's General Conditions of Contract and Guidelines for Works or Services. The tender price shall deem to be included all cost incurred.
- 4.26 Any qualification of tender or of the tender documents may cause the tender to be disqualified.
- 4.27 No unauthorized alteration or erasure to the text of the tender documents will be permitted. Any tender containing such alteration or erasure may not be considered.
- 4.28 The tenderer shall strictly comply with the following anti-collusion clause:
 - (1) (a) Subject to sub-clause (2) of this Clause, the tenderer shall not communicate to any person other than the CIC the amount of the tender price or any part thereof until the tenderer is notified by the CIC of the outcome of the tender exercise.
 - (b) Further to paragraph (a) of this sub-clause, the tenderer shall not fix the amount of the tender price or any part thereof by arrangement with any other person, make any arrangement with any person about whether or not he or that other person will or will not submit a tender or otherwise collude with any person in any manner whatsoever in the tendering process.
 - (c) Any breach of or non-compliance with this sub-clause by the tenderer shall, without affecting the tenderer's liability for such breach or non-compliance, invalidate his tender.

- (2) Sub-clause (1)(a) of this Clause shall have no application to the tenderer's communications in strict confidence with:
 - (a) his own insurers or brokers to obtain an insurance quotation for computation of tender price;
 - (b) his consultants or sub-contractors to solicit their assistance in preparation of tender submission; and
 - (c) his bankers in relation to financial resources for the Contract
- (3) The tenderer shall submit with his tender a duly signed and witnessed letter in the form set out in Appendix B of the Conditions of Tender. The signatory to the letter shall be a person authorized to sign CIC contracts on the tenderers's behalf.
- (4) The tenderer shall indemnify and keep indemnified the CIC against all losses, damages, costs or expenses arising out of or in relation to any breach of or non-compliance with sub-clause (1) of this Clause by the tenderer, including but not limited to additional costs due to price escalation, costs and expenses of re-tendering and other costs incurred.
- 4.29 The tenderer shall not and shall ensure that his agents and employees shall not give or offer any advantages as defined under the Prevention of Bribery Ordinance to any agent or employee of CIC. Any breach of the clause by the tenderer shall, without affecting the tenderer's liability for such breach, invalidate his tender.
- 4.30 The invited tenderer who has decided to decline the bid shall return the Reply Slip for Declining Bid provided in Appendix F of the Conditions of Tender.
- 4.31 The Items marked as 'Mandatory Requirements' are particulars that MUST be submitted under the Technical Proposal. In the event that a tenderer does not meet the mandatory requirements in the tender submission, his tender may not be considered for tender evaluation.

5 Tender Briefing and Site Visit Session

- 5.1 Tenderer is invited to attend a tender briefing session and site visit at the time and place as stated in the tender invitation. Interested tenderers should e-mail to the Subject Officer at least 2 working days before the stated time confirming the attendance of the said briefing session and site visit and state clearly the number of attendees for CIC's arrangement.
- 5.2 The CIC may record the queries raised by the tenderers attending the tender briefing and may issue a Replies to Tender Queries to all tenderers for information.

6 Tender Interview

- 6.1 During the tender evaluation stage, the tenderer is requested to attend a tender interview which will be held on **10 November 2017** to present his tender proposals. Upon receipt of a request from the CIC, the tenderer shall provide a tender presentation to demonstrate whether the proposal can fulfill the requirements specified in the Assignment Brief and its Annexes.
- 6.2 The presentation shall be set up with the tenderer's own resources and expense. The CIC shall not bear any costs associated with the presentation.
- 6.3 The presentation should at least include the project team profile, the approach to fulfill the objectives described in the Assignment Brief and its Annexes and an outline programme for completing the assignment. The presentation shall be conducted, where possible, by the leader of the proposed project team for performing the project management.
- 6.4 Each interview presentation should be no longer than 20-minutes, including a 10-minute questions and answers session.

7 Tender Evaluation

7.1 Tenderers shall note that their tender proposals, presentations and responses to CIC's queries in connection with the tender will be assessed in accordance with **the tender evaluation procedures and criteria** specified in **Appendix E** of the Conditions of Tender.

8 Tenderer's Commitment

- 8.1 All information and responses from the tenderer must be submitted in writing. The relevant provisions of this invitation to tender and such documents so submitted shall be the representation of the tenderer and may be incorporated into and made part of the Contract between the CIC and the successful tenderer.
- 8.2 The CIC reserves the right to disqualify any tender that directly or indirectly attempts to preclude or limit the effect of the requirements as mentioned on the Assignment Brief and its Annexes.
- 8.3 Tender shall remain valid and open for acceptance for **120 days** after the tender closing date.

9 Amendments

- 9.1 The CIC reserves the right to amend or withdraw the Assignment Brief and its Annexes before acceptance of a tender.
- 9.2 The CIC may issue Tender Addendum and / or Replies to Tender Queries no later than 7 days before tender closing if CIC found it necessary.

10 Award of Contract

- 10.1 The successful tenderer will receive a letter of acceptance as an official notification of acceptance. Unless and until a formal contract agreement is prepared and executed, this letter of acceptance together with the tender submission shall constitute a binding contract between the successful tenderer and the CIC. Tenderers who do not receive any notification within the validity period of their offer shall assume that their tenders have not been accepted.
- 10.2 The CIC reserves the right of not awarding the contract after receipt of submissions by the tenderer.
- 10.3 In order to ensure the fairness of the tender process, all answers to tender queries / tender clarifications and tender addendums will be uploaded to CIC's website. All tenderers have to take note of this arrangement. Any claim for extension of time or additional payment due to ignorance of this clause shall not be entertained by the CIC.

11 Rights to Exercise

11.1 The CIC may, at any time during the contract period by notice of writing, direct the Contractor to alter, amend, omit, add to, or otherwise vary any of the work items stated in the Contract and/or works required as specified by the CIC, and the Contractor shall carry out such variations. The contract sum will be adjusted all in accordance with the relevant provisions specified else in the tender documents and/or works required as specified by the CIC.

12 Submitted Documents

12.1 All submitted documents will not be returned.

13 Enquiries

13.1 In case the tenderer has any tender enquiries or/ and tender clarification queries, he should submit in writing to the procurement department with details as below:-

Ms. Winnie TO
Assistant Manager – Procurement
Construction Industry Council
38/F, COS Centre,
56 Tsun Yip Street, Kwun Tong,
Kowloon, Hong Kong

Tel: (852) 2100-9088 Fax: (852) 2100-9439 Email: winnieto@cic.hk

APPENDIX A – Details for Submission of Tender

The tenderer is required to provide all details as described therein.

To be included in Technical Proposal

1. Tenderer's Staff Resources

1.1 Organization of Proposed Project Team

- 1.1.1 The tenderer shall submit:
 - (a) Company's profile, background and expertise;
 - (b) An organization chart indicating the proposed project team structure and strength of the proposed project team. The project team shall include members who have experience in supplying the Deliverables as outlined in the Assignment Brief and its Annexes.

1.2 Qualifications of Proposed Project Team Members

- 1.2.1 The project team members shall possess the required qualifications, professional knowledge and relevant experience to supply the Deliverables as outlined in the Assignment Brief and its Annexes.
- 1.2.2 The project team proposed in the tender submission shall form part of the Agreement. The tenderer shall provide the details included but not limited to the following information of proposed project team members in the tender submission:
 - a) Name
 - b) Post / Title in this Project
 - c) Core Team Member (Yes/No)
 - d) Language (Chinese/English/Both)
 - e) Project knowledge and Years of Relevant Experience
 - f) Qualifications
 - g) Duties and Responsibilities in the Assignment

2. Tenderer's Track Record & Project Reference

- 2.1 The tenderer is required to provide a full list of project references undertaken in the past 5 years (as of the tender closing date) for projects similar to this Assignment, giving the details by adhering to the submission format as specified in Section 2.2 below.
- 2.2 The tenderer shall submit a list of <u>relevant project references</u> in the following format with support of copies of job references or recommendation letters from previous clients.

Brief Project Description	Scope of Services	Client	Contract Value (in HK\$)	Duration	Year

2.3 In case the tenderer is unable to disclose of track record and project reference due to the signing of confidentiality agreement with its previous clients, please specify in the tender submission accordingly. In this circumstance, the tenderer will be asked to describe this information to the Assessment Panel during the tender interview.

3. Project Approach and Requirements

- 3.1 The tenderer is required to submit the following to demonstrate his capabilities in fulfilling the project approach and technical requirements and to present all the deliverables outlined in the Assignment Brief and its Annexes:-
- (i) **Tender Programme** shall be in the form of a linked bar chart identifying the critical path and included but not limited to the following activities:
 - (a) Design Development design development periods for the main areas of work, Employer design presentation and Employer approvals.
 - (b) Procurement Activities purchase order, manufacturing period, testing and delivery.
 - (c) Construction Activities key elements of the construction including equipment installation, testing and commissioning and handover procedure.
 - (d) Maintenance Activities maintenance activities, which will be carried out under the Contract during the Defects Liability Period (DLP).
- (ii) A completed **Method Statement** must be submitted to demonstrate a full understanding of the Assignment, the method statement should include but not limited to the followings:-

- (a) Access to the Site for materials delivery;
- (b) Approach to undertaking the Assignment;
- (c) Maintaining access and existing fire escape routes clear during the Works;
- (d) Noise, vibration and dust control during the Works to minimise disruption;
- (e) Installation of temporary services and service diversions to ensure that areas outside of the works area remain in use during the project and procedures for third party liaison;
- (f) Approach to the Completion of the Project;
- (g) Site Waste Management Plan.
- (iii) Health and Safety. The Tenderer shall include the following:-
 - (a) Nominations with CV's of personnel to be responsible for implementing the Health and Safety Policy and whether they are site-resident or on a visiting basis;
 - (b) A diagram showing reporting responsibilities and method by which any conflicts of interest between Health and Safety and other project objectives and restrictions will be resolved;
 - (c) Accident statistics covering a period of two years to date, inclusive of subcontracted labour with the method of calculation and definitions clearly shown.
- 3.2 The tender shall refer to the other requirements laid down in the Assignment Brief and its Annexes of the tender document.

4. Documents and Information to be submitted by the Tenderer

4.1 The tenderer is required to provide the following documents and information as described in the tender documents:

	Particulars Reference				
Teo	chnical Proposal				
1.	Organisation of Proposed Project Team [Mandatory Requirement]	Conditions of Tender, Appendix A Clause 1.1 [Technical Proposal]			
2.	Qualifications of Proposed Project Team [Mandatory Requirement]	Conditions of Tender, Appendix A Clause 1.2 [Technical Proposal]			
3.	Tenderer's Track Record & Project Reference [Mandatory Requirement]	Conditions of Tender, Appendix A Clause 2.1, 2.2 and 2.3 [Technical Proposal]			
4.	Approach and work programme to (i) fulfill the technical requirements and (ii) deliver all deliverables outlined in the Assignment Brief and its Annexes [Mandatory Requirement]	Conditions of Tender, Appendix A Clause 3.1 [Technical Proposal]			
5.	A duly completed Standard Letter for complying with Anti-Collusion Clause	Conditions of Tender, Appendix B [Technical Proposal]			
6.	A duly signed CIC's General Conditions of Contract and Guidelines for Works or Services (2b)-CAR	CIC's General Conditions of Contract and Guidelines for Works or Services (2b)-CAR [Technical Proposal]			
7.	All documents mentioned in the Technical Assessment Marking Scheme	Conditions of Tender, Appendix E [Technical Proposal]			
8.	Statements of Convictions under Cap. 115, Cap. 59 and Cap. 57, Outline Health & Safety Plan, and General Building Contractor Registration or Minor Works Contractor Registration	Special Conditions of Tender [Technical Proposal]			
Fee	e Proposal				
9.	Form of Tender	Conditions of Tender, Appendix C [Fee Proposal]			
10.	Fee Proposal	Conditions of Tender, Appendix D [Fee Proposal]			

Note: Items marked as 'Mandatory Requirements' are particulars that MUST be submitted under the Technical Proposal. Non-compliance with the Mandatory Requirements may lead to the tender submission being not considered for tender evaluation.

APPENDIX B – Standard Letter for complying with Anti-Collusion Clause

To:	Constru	action Industry	y Council (CIC)			
Date:		-			To be included in Technical Proposa	al
Dear Sir/Mad	am,				•	
	Tende	Ref:	(325) in P/AE/PUF	R/AGC		
	Tender	· · · · · · · · · · · · · · · · · · ·	, Project Management a ervice Centre of Model 7		·	
	*[I/W	e], [()]	
of			name of the tender	rer		
()]	
1,			address of the tenderer			
refer to *[my	our] tende	er for the abov	re Contract.			
fully understa			t, before *[I/We] sign the			
Contract:	*[I/W	e] represent a	nd warrant that in relat	ion to the	tender for the above	
	(i)	last paragraph communicate tender price	er than the Expected Co oh of this letter, have n e to any person other the or any part thereof unti- ne outcome of the tender	not community than the Call *[I/We] I	IC the amount of the nave been notified by	
	(ii)		e not fixed and will not fi hereof by arrangement v		•	
	(iii)		e not made and will not a whether *[I/We] or that der; and	-	•	

(iv) *[I/We] have not otherwise colluded and will not otherwise collude with any person in any manner whatsoever in the tendering process.

*[I/We] shall indemnify and keep indemnified the CIC against all losses, damages, costs or expenses arising out of or in relation to any breach of any of the representations and/or warranties above, including but not limited to damages for delay, costs and expenses of re-tendering and other costs incurred.

In this letter, the expression "Expected Communications" means *[my/our] communications in strict confidence with:

- (i) *[my/our] own insurers or brokers to obtain an insurance quotation for computation of tender price;
- (ii) *[my/our] consultants or sub-contractors to solicit their assistance in preparation of tender submission; and
- (iii) *[my/our] bankers in relation to financial resources for the Contract.

Signed for and on behalf of]
	name of the tenderer	
by		
[] ² :
	name and position of the signatory	
Name of Witness:		
Signature of Witness:		
Occupation:		

Note:

- * Delete as appropriate
- 1. Where the tenderer comprises two or more persons or companies acting in partnership, joint venture or otherwise, this part in square brackets should be expanded to include the respective names and addresses of such persons or as the case may be companies.
- 2. Where the tenderer comprises two or more persons or companies acting in partnership, joint venture or otherwise, all such persons or as the case may be companies must sign. The signatory for each of such persons or companies shall be a person authorised to sign CIC

contracts on behalf of that person or as the case may be company.

APPENDIX C – Form of Tender

To be included in Fee Proposal

FORM OF TENDER

FOR

DESIGN, PROJECT MANAGEMENT AND FITTING OUT WORKS FOR TRADE TEST SERVICE CENTRE OF MODEL TRADE TEST CENTRE FOR

THE CONSTRUCTION INDUSTRY COUNCIL

To: Construction Industry Council 38/F, COS Centre, 56 Tsun Yip Street, Kwun Tong, Kowloon, Hong Kong

Dear Sirs,

- Having examined the Conditions of Tender, Appendices to Conditions of Tender, Special Conditions of Tender, Assignment Brief and its Annexes, Memorandum of Agreement, General Conditions of Employment, CIC's General Conditions of Contract and Guidelines for Works or Services (2b-CAR) and Contractor's Safety Requirements thereto for the execution of the above named Services, we offer to execute and complete the whole of the said Services in conformity with the said Conditions of Tender, Appendices to Conditions of Tender, Special Conditions of Tender, Assignment Brief and its Annexes, Memorandum of Agreement, General Conditions of Employment, CIC's General Conditions of Contract and Guidelines for Works or Services (2b-CAR) and Contractor's Safety Requirements and the tender proposals submitted herewith within Calendar Days including Sundays and Public Holidays from the date of contract and the of awarded for sum Hong Kong Dollars.....(HK\$.....) (not subject to fluctuations in labour and material costs) or such sums as may be ascertained in accordance with the Conditions of Employment.
- 2. We agree to abide by this tender and not to withdraw it for a period of 120 days from the date fixed for receiving it and including that date and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

- 3. Unless and until a formal agreement is prepared and executed, this tender together with your written acceptance thereof subject to the provisions of Clause 2 hereof shall constitute a binding Contract between us.
- 4. We understand that you are not bound to accept the lowest or any tender you may receive. Signature In the capacity of _____ Duly authorized to sign tenders for and on behalf of * Registered Address of the Firm Address Occupation Business Registration Certification No.

* In the cases of a (a) Limited Company or (b) Partnership or unincorporated body, (a) the name of the Company or (b) the name(s) of the partner(s) must be inserted in the space provided above.

Residential Address of Partner(s)

Name of Partner(s)

APPENDIX D - Fee Proposal

To be included in Fee Proposal

FEE PROPOSAL FOR THE

DESIGN, PROJECT MANAGEMENT AND FITTING OUT WORKS FOR TRADE TEST SERVICE CENTRE OF

MODEL TRADE TEST CENTRE

FOR THE CONSTRUCTION INDUSTRY COUNCIL

Γhe Contractor shall be paid a Lump Sum fee of HK\$	for the provision
of all services and all expenses incurred in connection with the carrying out and satisf	actory completion
of the Assignment as detailed in the Assignment Brief and its Annexes.	

The tenderer shall enclose with his tender the completed Schedule of Rates as below:

- (1) The Schedule of Rates shall be in sufficient details to indicate the breakdown of the works. Failure to submit the Schedule of Rates may cause his tender not to be considered by the Employer.
- (2) Any items which are not included in the Schedule of Rates but shown on the drawings or described in the specifications under the tender document shall be deemed to have been included in the tender figures.
- (3) Upon award of the Contract, the Schedule of Rates shall be deemed to be the Contractor's Schedules and will be regarded as firm and will not be subject to remeasurement or adjustment whatsoever otherwise than in accordance with the expressed provisions of the terms of the Contract.
- (4) The total of the Schedule must agree with the amounts carried to the Summary of Tender. Any items which are not included in the Schedule but shown on the drawings or described in the specifications under the tender documents shall be deemed to have been included in the tender figures. The rates in the Schedule shall be used for the valuation of variations ordered by the Employer, but the quantities referred to in the Schedule shall not form part of the Contract Documents.
- (5) The tenderer should note that the quantities as inserted in the Schedule of Rates for all measured work should be consistent with those shown on the tender drawings and the drawings to be prepared and provided by the tenderer. Where large discrepancy or apparent inconsistency in the quantity of any item is identified, the item total will remain intact and the tenderer will be requested to adjust the unit rate and the quantity to tally with the item total.

HK\$

Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council (325) in P/AE/PUR/AGC

Schedule of Rates

Table 1 - Detailed breakdown of tender price

Item	Description of Deliverables	Amount (HK\$)
1	Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre (including contingency sum)	
	Grand Total:	

Schedule of Rates

Summary of Schedule of Rates

- 1 Preliminaries
- 1A Detailed Design
- **2** Partitions and Doors
- 3 Carpentry
- 4 Wall Finishes
- 5 Ceiling Works

Schedule of Rates (Cont'd)

Summar	y of Schedule of Rates	HK\$
6	Floor Finishes	
7	Electrical Works	
8	Heating Ventilation and Air Conditioning Works	
9	Fire Services Works	
10	Plumbing and Drainage Works	
11	Main Power Cable and TV Outlet Points	
12	System and Loose Furniture	
13	Equipment	
14	CCTV and Security System	
15	Audio & Visual / Public Address System	
16	Sanitary Wares and Fittings for Toilet	
17	Finishes by Specialists	
18	Miscellaneous Items	
19	Contingency Sum	2,500,000
	Grand Total (Items 1 to 19):	

Remarks for Schedule of Rates:

The Schedule of Rates against which items of work are described shall not be regarded as a complete statement of everything included in the Contract. The tender must include all works shown on the tender drawings or described in the specifications as a whole apparent as being necessary for the complete and proper execution of Works.

The quantities specified in the Schedule of Rates are approximate for reference only and the Contractor shall be fully responsible for the accuracy of the quantities set out in the Schedules of Rate.

This project is a lump sum contract subject to re-measurement. The quantities listed in Section 2 to 18 of the Schedules of Rates which the header labeled with a "*" are provisional quantities based on the preliminary design drawings. The quantities with "*" are all subject to re-measurement with respect to the final approved detailed design.

1 – Preliminaries

Items	Description	Provisional Qty.	Rate HK\$	Amount HK\$
1.01	Attendance of all site meetings & preparation of meeting minutes and weekly progress reports	1	Sum	
1.02	Insurance of Contractor All Risks (including Employees' Compensation, Material Damage & HK\$30,000,000 for Third Parties Liability)	1	Sum	
1.03	All required shop drawings, documents, materials preparation for the submission to the CIC with necessary calculations for approval prior to commencement. All the requirements including design criteria, fit-out guidelines and material specifications etc.	1	Sum	
1.04	Provision of personal safety equipment and safety working platforms with valid certificates for the whole project, and all activities that fully comply with the requirements of Labour Department, HKSAR and the CIC.	1	Sum	
1.05	Systems that are involved with energy consumption shall comply with Building Energy Efficiency Ordinance (Chapter 610).	1	Sum	
1.06	Temporary electricity and water connection / arrangement are included. It shall comply with the CIC's requirements.	1	Sum	
1.07	Regular and final cleaning and removal of debris to meet the CIC's requirements.	1	Sum	
1.08	All work and submission due to the requirements of minor work control system issued by Buildings Department, HKSAR.	1	Sum	
1.09	O&M manual with all related certificates e.g. FS251, FS314A, WR1, minor work submission, etc. (Include submissions of hardcopy and softcopy for the CIC's record purpose).	1	Sum	
1.10	As-built drawings in AutoCAD editable format (Include submissions of hardcopy and softcopy for the CIC's record purpose).	1	Sum	

(225)	١in	P/AE/PUR/AGO	~
(323) III	P/AE/PUK/AGU	_

Items	Description	Provisional Qty.	Rate HK\$	Amount HK\$
1.11	Setting out line (refer to Drawing No. 05-FP-01)	1	Sum	
1.12	Supply labour and materials to repair concrete	1	Sum	
	spalling of the existing structures including			
	ceilings, floors, columns and walls within the			
	whole site area.			
1.13	Demolition of reinforced concrete partitions and	1	Sum	
	block walls, and removal of all fixtures, fittings,			
	raised floor, building services etc. from the			
	existing computer server room and cart away all			
	demolished materials and debris away from site.			
1.14	Allow professional fee to check the Means of	1	Sum	
	Escape (MOE) for the floor layout of the new			
	service centre and to issue certification			
	according to the code of practice for the			
	provision of "Mean of Escape in case of fire			
4.45	1996".			
1.15	Attendance and coordination fee for all other	1	Sum	
	trades contractor, the CIC's vendor, sub-			
1.16	contractor, suppliers, etc.	1	C	
1.16	Supply and install white (matt fin.) plastic	1	Sum	
	laminate hoarding and protection up to structure			
	slab level of public area and cargo lift area to meet			
1.17	the CIC's requirements. To provide fire extinguisher, fire fighting	1	Sum	
1.17		1	Sulli	
	equipment, etc. (Include submissions of fitting out			
1.18	drawing for the CIC's record purpose). Allow professional fee to engage Authorized	1	Sum	
1.10	Person and Registered Structural Engineer to	1	Sulli	
	check the structural adequacy due to all previous			
	and upcoming removals of reinforced concrete			
	partitions and block walls, and advise the method			
	of repair for all concrete spalling over the whole			
	floor area at L5, and submit reports to relevant			
	Government Authorities including Buildings			
	Department for approval, and reports of checking			
	result to the CIC.			
1.19	Levies for the Construction Industry Council and	1	Sum	
	Pneumoconiosis Compensation Fund Board			
I	1	<u> </u>	l .	1

Items	Description	Provisional Qty.	Rate HK\$	Amount HK\$
1.20	Project Management of all aspects of the project including but not limited to full-time site supervision, and supervision of the interior designers and draftsmen to carry out the detailed design.	1	Sum	
		Item 1–To	otal:	

1 A- Detailed Design

Items	Description	Provisional Qty.	Rate HK\$	Amount HK\$
1A.01	The Contractor shall prepare and further develop a detailed design based on the preliminary design for all aspects of the renovation works of the new service centre, including but not limited to updating the floor layout through conversion of the existing computer server room to maximise the use of the floor area as part of the new service centre to the CIC's satisfaction.	1	Sum	
1A.02	Detailed Design drawings including plans, elevations, sections, all fixing details, materials schedule etc., to be submitted to the CIC for approval.	1	Sum	
1A.03	3D rendering pictures showing the perspective views of the detailed design to be submitted to the CIC for approval.	1	Sum	
		Item 1A–T	otal:	

2 - Partitions and Doors

Items	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
2.01	Supply & install full height glazed partition up to false ceiling level w/. 12mm thk clear tempered glass and double layers gypsum board partition above which up to structural slab constructed w/ 50mm metal studs and 50mm thk. 60kg/m3 rockwool insulation inside (refer to Drawing Nos. 05-FP-01 and 05-D-17) - (refer to Material Schedule 05-MAS-02 / GL-01 and MT-01) - steel angles, hanger rod, brackets and necessary ironmongeries and metal kits for installation - floor track: stainless steel - Horizontal seals: Top and bottom pressure seal with special supplementary seals and sound reducing	96 SM		
2.02	Supply & install full height single layer gypsum board partition up to false ceiling level constructed w/. 50mm metal studs and 50mm thk. 60 kg/m3 rockwool insulation inside (refer to Drawing No. 05-FP-01)	60 SM		
2.03	Supply & install full height double layers gypsum board partition up to structural slab level constructed w/. 50mm metal studs and 50mm thk. 60 kg/m3 Rockwool insulation inside (refer to Drawing No. 05-FP-01)	412 SM		
2.04	Supply & install full height block external brick wall up to structure slab surrounding toilet and changing room (refer to Drawing No. 05-FP-01)	96 SM		
2.05	Supply & install 1 hour fire resistant rated exit door (refer to Door Schedule 05-DS-01/D18)	1 Set		

Items	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
2.06	Supply & install 1 hour fire resistant rated door for	2 Sets		
	corridor (refer to Door Schedule 05-DS-01/D04)			
2.07	Supply & install solid core single swing external	5 Sets		
	toilet and changing room door(refer to Door			
	Schedule 05-DS-01/D15)			
2.08	Supply & install hub room and rest area door	2 Sets		
	(refer to Door Schedule 05-DS-01/D05)			
2.09	Supply & install written test room door	10 Sets		
	(refer to Door Schedule 05-DS-01/D13)			
2.10	Supply & install 1 hour fire resistant rated	2 Sets		
	automatic double swing glazed door			
	(refer to Door Schedule 05-DS-02 / D20 and			
	Ironmongery Schedule 05-IRS-03 / I-12)			
	-"AUB" automatic swing door Gilgen FD20 or			
	equivalent grade			
	- Consists of :			
	- AD-10762 Gilgen FD-20 drive unit w/o rod			
	assembly (Alum cover)			
	- AD-10764 Gilgen Rod for FD20 Swing Door,			
	Sliding Rod x 2nos			
	-AD-10767 Gilgen FD20 Swing Door, Clamp			
	with screw (Axis between drive unit and rod by			
	50mm) x 2 nos			
	- AD-10776 Open Position Stop piece assembled			
	(buid-in component)			
	- AD-10116 D-BEDIX Program Selector Key x			
	1 nos			
	- AD-10179 Eye-tech kit 2 (Silver) (L=900):2 pcs			
	for each panel x 4			
	- monitoring for normal locking and panel			
	programme control and break glass			
	- emergency back up battery			
	- key by-pass switch			
	(Please state the origin, manufacture, brand,			
	model, type, etc should equivalent material be			
	proposed:)			
	- 12 months materials and workmanship			
	warranties			

Items	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
2.11	Supply & install conference and meeting room	3 Sets		
	door			
	(refer to Door Schedule 05-DS-01/D05)			
2.12	Supply & install office and filing room door	5 Sets		
	(refer to Door Schedule 05-DS-01/D05)			
2.13	Supply & install meter room door	1 Set		
	(refer to Door Schedule 05-DS-01/D16)			
2.14	Supply & install new building's facilities doors	1	Sum	
	and re-paint door frame including meter room,			
	pipe duct door, etc. (refer to Door Schedule 05-			
	DS-02/D19)			
2.15	Supply & install all associated dry wall	1	Sum	
	furring/partition to conceal conduit, piping, etc.			
	(refer to Drawing No. 05-FP-01)			
2.16	L5 Entrance Area:			
	Supply & install full height single layer 12mm	40		
	"Promat" board partition up to structural slab level	SM		
	constructed w/. 50mm metal studs and 50mm thk.			
	60 kg/m3 rockwool insulation inside			
	(refer to Drawing No. 05-FP-01)			
		Item 2–T	otal:	

Notes:

2.1 The Contractor shall submit details for the CIC's approval

- 2.2 The Contractor shall check cargo lift size for the width of glass panels and doors
- 2.3 Plastic laminate finish must be allowed inside cabinets
- 2.4 All plastic laminate finish must be allowed in Formica Grade or equivalent
- 2.5 All glass works provided must be in tempered glass
- 2.6 All stainless steel must be in #316 grade
- 2.7 All doors shall install necessary sound seal gasket
- 2.8 The Contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.
- 2.9 Specification for item 2.10:

Building's Maintenance Contractor "AUB Ltd"

Contact person: Mr. Alfred Chot - mobile: 6884 4990 / office: 3956 1621, 2375 6110

3 - Carpentry

Item	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
3.01	Reception area – Supply and install reception	12.5	ΙΙΙΙΨ	ΙΙΙΙΨ
	counter (refer to Drawing No. 05-D-33 and 05-	LM		
	D-34)			
3.02	Reception area – Supply and install Low cabinets	4.5		
	(refer to Drawing No. 05-D-35)	LM		
3.03	Reception area – Supply and install cabinet for	1 No		
	photo taking (refer to Drawing No. 05-D-36)			
3.04	Reception area – Supply and install cabinet for	1 No		
	TV display (refer to Drawing No. 05-D-37)			
3.05	Reception area – Supply and install cabinet for	8		
	full height TV wall (refer to Drawing No. 05-E-	LM		
	03)			
3.06	Reception area – Supply and install leaflet rack	2 Nos		
	column (refer to Drawing No. 05-D-26)			
3.07	Reception area – Supply and install leaflet rack	2.4		
	(refer to Drawing No. 05-D-27)	LM		
3.08	Reception area - Supply and install written	7.5		
	bench along window side (refer to Drawing No.	LM		
	05-D-28)			
3.09	Reception area – Supply and install cabinet for	2 Nos		
	internet information (refer to Drawing No. 05-D-			
	38)			
3.10	Rest area - Supply and install hexagonal	7.5		
	decorative wall (refer to Drawing No. 05-D-25)	LM		
3.11	Reception area – Supply and install full height	1 No		
	cabinet to house main control for lighting and			
	A/C system (refer to Drawing No. 05-E-02)			
3.12	Conference room – Supply and install full height	0.8		
	cabinet to house AV equipment	LM		
	(refer to Drawing No. 05-E-16)			
3.13	Corridor – Supply and install full height storage	2.3		
	cabinet (refer to Drawing No. 05-E-19)	LM		
3.14	Supply and install full height cabinets to house	2 Sets		
	hose reel (refer to Drawing No. 05-D-24)			

Item	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
3.15	Written test room - Supply and install mobile	5 Sets		
	phone locker (refer to Drawing No. 05-D-06)			
3.16	Written test room – Supply and install cabinet for	5 Sets		
	iPad storage (refer to Drawing No. 05-D-09)			
3.17	Office – Supply and install pantry cabinet	3.7		
	(refer to Drawing Nos. 05-D-18 and 05-D-19)	LM		
	- in high glossy piano painted doors with			
	slope cut for door opening			
	- "BLUMotion" 108 degree soft close clip			
	hinges or equivalent			
	- wooden drawers with "BLUM" drawer case			
	and full extension runner or equivalent			
	- Corian surface w/. 50mm straight edge &			
	50mm splash back or equivalent grade			
	Custom made litter bin in stainless steel fin.			
3.18	Rest area – Supply and install pantry cabinet	4		
	(refer to Drawing Nos. 05-D-20 and 05-D-21)	LM		
	- doors with slope cut for door opening			
	- "BLUMotion" 108 degree soft close clip			
	hinges or equivalent			
	- wooden drawers with "BLUM" drawer case			
	and full extension runner or equivalent			
	- Corian surface w/. 50mm straight edge &			
	50mm splash back and Corian 804A/S bowl			
	sink or equivalent grade			
	(refer to Schedule 05-APS-01/AP-11)			
	- FIMA CARLO FRATTINI 3537/2 Water			
	Tap, in chrome fin. or equivalent			
	(refer to Schedule 05-APS-01/AP-08)			
	Custom made litter bin in stainless steel fin.			
3.19	Female toilet (Staff only) – Supply and install	1.3		
	basin cabinets with corian top (refer to Drawing	LM		
	Nos. 05-D-13 and 05-D-14)			
3.20	Female toilet (Staff Only) – Supply and install	0.9		
	locker (refer to Drawing No. 05-E-42)	LM		
		Item :	3–Total :	

Notes: 3.1 The Contractor shall submit details for the CIC's approval

- 3.2 The Contractor shall check cargo lift size for the width of glass door
- 3.3 Plastic Laminate finish must allow inside cabinet
- 3.4 All plastic laminate finish must allowed in "Formica" or equivalent grade
- 3.5 All glass work must be provided in tempered glass
- 3.6 All stainless steel must be in #316 grade
- 3.7 The Contractor shall state the origin, manufacture, brand, model, type, etc, wherever equivalent material be proposed.

4 – Wall Finishes

Item	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
4.01	Supply & install 100mm H stainless steel	240	ПТФ	1118.0
4.01	skirting	LM		
	(refer to Material Schedule 05-MAS-02 / MT-	Livi		
	01)			
4.02	Supply & install 100mm H stainless steel dado	155		
	(refer to Material Schedule 05-MAS-02 / MT-	LM		
	01)			
4.03	Supply & install 50mm H stainless steel dado	86		
	(refer to Material Schedule 05-MAS-02 / MT-	LM		
	01)			
4.04	Supply & install 100mm H wooden skirting	235		
	(refer to Material Schedule 05-MAS-01 / WD-	LM		
	01)			
4.05	Supply & install 50mm H wooden ceiling	217		
	cornice in spray paint fin.	LM		
	(refer to Material Schedule 05-MAS-03 / P-01)			
4.06	Supply & install wooden window pelmet in	75		
	spray paint fin. (refer to Material Schedule 05-	LM		
	MAS-03 / P-01 and Drawing No. 05-D-04)			
4.07	Supply & install wallpaper fin.	556		
	(refer to Material Schedule 05-MAS-04 / WP-	SM		
	01)			
4.08	Written test room white board – Supply & install	50		
	crystal glass panel with white paint backing	SM		
	(refer to Materials Schedule 05-MAS-02 / GL-06			
	and Drawing No. 05-D-03)			
4.09	Conference and meeting room white board -	23		
	Supply & install crystal glass panel with white	SM		
	paint backing (refer to Materials Schedule 05-			
	MAS-02 / GL-06 and Drawing No. 05-D-03)			
4.10	General – Supply & install crystal glass panel	6		
	with white paint backing (refer to Materials	SM		
	Schedule 05-MAS-02 / GL-06)			

Item	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
4.11	Reception Area – Supply & install crystal glass	15		
	panel with white paint backing (refer to	SM		
	Materials Schedule 05-MAS-02 / GL-06)			
4.12	Reception Area – Supply & install glass panel for	25		
	TV wall (refer to Materials Schedule 05-MAS-	SM		
	02 / GL-01 & Drawing No. 05-E-03)			
4.13	Written Test Room – Supply & install echo panel	116		
	which including 45degee edged in tile size (refer	SM		
	to Materials Schedule 05-MAS-01 / A-01 &			
	Drawing No. 05-D-05)			
4.14	Written test room – Supply & install wall panel	154		
	with plastic laminate (refer to Materials Schedule	SM		
	05-MAS-04 / PL-04 & Drawing No. 05-D-04)			
4.15	Corridor (Written test room) – Supply & install	75		
	crystal glass wall panel with white paint backing	LM		
	and stainless steel dado and skirting (refer to			
	Materials Schedule 05-MAS-02 / GL-06 &			
	Drawing No. 05-D-01)			
4.16	Corridor (Toilet and changing room) – Supply &	50		
	install crystal glass wall panel with white paint	LM		
	backing and stainless steel dado and skirting			
	(refer to Materials Schedule 05-MAS-02 / GL-06			
	& Drawing No. 05-D-01)			
4.17	Supply and install paint fin. to all structure wall	1	Sum	
	/ column (upper side of window sill) along			
	window side (refer to Materials Schedule 05-			
	MAS-03 / P-04 & Drawing No. 05-D-04)			
4.18	<u>L5 Entrance</u>	50		
	Supply & install crystal glass panel with LED	SM		
	light backing (refer to Materials Schedule 05-			
	MAS-02 / GL-08 & Drawing Nos. 05-E-01 and			
	05-D-22)			
4.19	Supply & install frosted film with company logo	60		
	at all glazed partition and frosted film with	LM		
	pattern for all doors (refer to Drawing No. 05-D-			
	17 and all Door Schedule 05-DS-01, 05-DS-02)			

Item	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
4.20	Supply & install 1800mmW x 900mmH magnetic board with white frame (refer to Drawing No. 05-E-18)	5 NOS		
		Item	4–Total :	

Notes: 4.1 The Contractor shall submit details for the CIC's approval

- 4.2 The Contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.
- 4.3 The Contractor's tender price shall include related air freight and transportation charges if necessary;

5 – Ceiling Works

Item	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
5.01	Female toilet (Staff only) – Supply & install	7	ΠΙΚΨ	ΠΙΙΨ
	acoustic suspended false ceiling system	SM		
	(refer to Material Schedule 05-MAS-01 / C-02			
	and Drawing No. 05-CP-01)			
5.02	Corridor to toilet and changing room – Supply &	68		
	install gypsum board acoustic false ceiling	SM		
	system with paint fin.			
	- including all necessary access panels for			
	checking and maintenance. Location and			
	quantity of access panel should be approved prior			
	to commencement			
	(refer to Material Schedule 05-MAS-03 / P-01			
	and Drawing No. 05-CP-01)			
5.03	Reception area - Supply & install hexagonal			
	suspended false ceiling system			
	- Wood fin. with LED (Type A)	7 nos		
	- Paint fin. with LED (Type B)	12 nos		
	- Wood fin. (Type C)	5 nos		
	- Paint fin. (Type D)	17 nos		
	(refer to Drawing Nos. 05-CP-01 and 05-D-40)			
5.04	Rest area – Supply & install hexagonal			
	suspended false ceiling system			
	- Wood fin. with LED (Type A)	10 nos		
	(refer to Drawing Nos. 05-CP-01 and 05-D-40)			
5.05	Reception area – Supply & install gypsum board	90		
	acoustic suspended false ceiling system with	SM		
	paint fin. above reception counter			
	- including all necessary access panels for			
	checking and maintenance. Location and			
	quantity of access panel should be approved prior			
	to commencement			
	(refer to Material Schedule 05-MAS-03 / P-01			
	and Drawing No. 05-CP-01)			
5.06	Meeting and conference room – Supply & install	78		
	acoustic suspended false ceiling system	SM		
	(refer to Material Schedule 05-MAS-01 / C-01			
	and Drawing No. 05-CP-01)			

Item	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
5.07	Hub room – Supply & install acoustic suspended	10		
	false ceiling system (refer to Material Schedule	SM		
	05-MAS-01 / C-01 and Drawing No. 05-CP-01)			
5.08	Written test room and corridor – Supply & install	339		
	acoustic false ceiling system (refer to Material	SM		
	Schedule 05-MAS-01 / C-01 and Drawing No. 05-CP-01)			
5.09	Office and store room – Supply & install acoustic	85		
3.05	suspended false ceiling system (refer to Material	SM		
	Schedule 05-MAS-01 / C-01 and Drawing No.	SIVI		
	05-CP-01)			
5.10	Window side and surrounding reception area -			
	Supply & install gypsum board acoustic false	1	Sum	
	ceiling system with light trough and paint fin.			
	- including all necessary access panels for			
	checking and maintenance. Location and			
	quantity of access panel should be approved prior			
	to commencement			
	(refer to Material Schedule 05-MAS-03 / P-01			
	and Drawing No. 05-CP-01)			
5.11	Rest area – Supply & install acoustic false ceiling			
	system in wood veneer fin. with light trough	1	Sum	
	(refer to Material Schedule 05-MAS-01 / WD-02			
	and Drawing No. 05-CP-01)			
5.12	L5 Entrance:			
	Supply & install suspended false ceiling system	1	Set	
	(refer to Material Schedule 05-MAS-02 / MT-06			
	and Drawing Nos. 05-CP-01 and 05-D-23)			
		Item 5	- Total:	

Notes: 5.1 All materials used at or above the false ceiling level shall be **non-combustible**.

- 5.2 Allow Formaldehyde-Buster Odour-Less All-In-1 or equivalent grade
- 5.3 The Contractor shall submit details for the CIC's approval
- 5.4 The Contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.

<u>6 – Floor Finishes</u>

Item	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
6.01	Written test room, corridor, hub room and filing	375		
	room – Supply & install vinyl floor (in roll size)	SM		
	with additional 3mm-5mm thk. cushion backing			
	and including self-leveling floor screeding prior			
	to the installation of vinyl floor			
	(The smoothness and flatness conditions subject			
	to the CIC's satisfaction)			
	(refer to Material Schedule 05-MAS-03 / VR-02			
	and Drawing No. 05-FP-01)			
6.02	Meeting & conference room and office – Supply	150		
	& install carpet floor (in tile size) with additional	SM		
	cushion backing and including self-leveling floor			
	screeding prior to the installation of carpet floor			
	(The smoothness and flatness conditions subject			
	to the CIC's satisfaction)			
	(refer to Material Schedule 05-MAS-02 / CP-01			
	and Drawing No. 05-FP-01)			
6.03	Reception area and corridor to toilet – Supply &	185		
	install floor tiles including water proofing layer	SM		
	finish up to 1000mm AFFL at wall			
	(refer to Material Schedule 05-MAS-04 / ST-17			
	& Drawing No. 05-FP-01)			
6.04	Reception's waiting area – Supply & install floor	50		
	tiles including water proofing layer finish	SM		
	(refer to Material Schedule 05-MAS-04 / ST-18			
	& Drawing No. 05-FP-01)			
6.05	Rest area – Supply & install floor tiles including	80		
	water proofing layer finish up to 1000mm AFFL	SM		
	at wall			
	(refer to Material Schedule 05-MAS-04 / ST-15			
	& Drawing No. 05-FP-01)			

Item	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
6.06	L5 entrance area – Supply & install 3M entrance mat with stainless floor frame including water proofing layer finish - Size: 1500 x 2000 mm approx. (check on site) (refer to Material Schedule 05-MAS-02/MT-01, CP-03 & Drawing No. 05-FP-01)	1 No		
6.07	Supply & install hairline stainless steel dividing strip between different floor finishes (refer to Material Schedule 05-MAS-02 / MT-01)	1	Sum	
		Item 6	–Total :	

Notes: 6.1 The Contractor shall submit samples for the CIC's approval

6.2 The Contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.

7 – Electrical Works

Item	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
7.01	Supply and install new full set of 300A	1 Set		
	"Hager" or equivalent grade TPN MCCB			
	box for all facilities and equipment			
	completed with all trunking and conduit			
	installation and connection of main cable &			
	wiring work. (refer to Drawing Nos. 05-EP-			
	01, 05-EP-02 and 05-EP-03)			
	- Including all associated distribution			
	board for power, lighting, HVAC, spare,			
	existing server room, etc.			
	- Including to modify existing distribution			
	board to fix new requirements			
	- The contractor shall submit schematic			
	diagram and circuit details of MCB for			
	the CIC's approval prior to the			
	commencement to avoid any disturbance			
	of CIC's normal operation			
	- issue & submit certificate			
	- provision of 1 set of hard copy and softcopy			
	of proposal & as-fitted drawings in			
	AutoCAD format for submission and record			

Item	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
7.02	Supply and install new full set of 300A	1 Set	<u> </u>	
	"Hager" or equivalent grade TPN MCCB			
	box for all facilities and equipment			
	completed with all trunking and conduit			
	installation and connection of main cable &			
	wiring work. (refer to Drawing Nos. 05-EP-			
	01, 05-EP-02 and 05-EP-03)			
	- Including all associated distribution			
	board for power, lighting, HVAC, spare,			
	etc.			
	- The contractor shall submit schematic			
	diagram and circuit details of MCB for			
	the CIC's approval prior to the			
	commencement to avoid any disturbance			
	of CIC's normal operation			
	- issue & submit certificate			
	provision of 1 set of hard copy and softcopy			
	of proposal & as-fitted drawings in			
	AutoCAD format for submission and record			

Item	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
7.03	Supply and install new 63A "Hager" or	1 Set		
	equivalent grade TPN MCCB box for hub			
	room completed with all trunking and			
	conduit installation and cable & wiring			
	work. (refer to Drawing Nos. 05-EP-01, 05-			
	EP-02 and 05-EP-03)			
	- The Contractor shall submit schematic			
	diagram and circuit details of MCB for			
	the CIC's approval prior to the			
	commencement to avoid any disturbance			
	of CIC's normal operation			
	- issue & submit certificate			
	- provision of 1 set of hard copy and softcopy			
	of proposal & as-fitted drawings in			
	AutoCAD format for submission and record			
7.04	Supply & install 13A wall mounted single socket	18 Nos		
	(refer to Electrical Fittings Schedule 05-ELS-02			
	/ E-08 and Drawing No. 05-EP-01)			
7.05	Supply & install 13A wall mounted twin socket	77 Nos		
	(refer to Electrical Fittings Schedule 05-ELS-02			
	/ E-08 and Drawing No. 05-EP-01)			
7.06	Supply & install 13A ceiling mounted single	98 Nos		
	socket with stainless steel face plate			
	(refer to Drawing No. 05-CP-01)			
7.07	Supply & install wall and floor mounted Data	30 Nos		
	outlets			
	(subject to the final requirement of CIC IT dept.)			
	(CAT 6 cabling by others)			
	(refer to Drawing No. 05-EP-01)			
7.08	Supply & install wall and floor mounted Voice	34 Nos		
	outlets (CAT 6 cabling by others)			
	(refer to Drawing No. 05-EP-01)			
7.09	Supply & install wall mounted set of 13A wall	35 Sets		
	mounted twin socket x 2 nos. and 1 no. of Voice			
	and 1 no. of Data outlets (CAT 6 cabling by			
	others)			
	(refer to Electrical Fittings Schedule 05-ELS-02			
	/ E-08 and Drawing No. 05-EP-01)			

Item	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
7.10	Supply & install floor mounted set of 13A floor mounted twin socket x 2 nos. and 1 no. of Voice and 1 no. of Data outlets (CAT 6 cabling by others)	6 Sets		
	(refer to Electrical Fittings Schedule 05-ELS-05 / FB-02 and Drawing No. 05-EP-01)			
7.11	Supply & install USB power plate for reception area (refer to Electrical Fittings Schedule 05-ELS-04 / E-19 and Drawing No. 05-EP-01)	4 Sets		
7.12	Supply & install USB power plate for written test room (refer to Electrical Fittings Schedule 05-ELS-04 / E-19 and Drawing No. 05-EP-01)	60 Sets		
7.13	Supply & install conduits works, power supply and associated works for AV system and equipment (refer to Drawing No. 05-EP-01)	1	Sum	
7.14	Supply & install conduits works, power supply and associated works for security system (refer to Drawing No. 05-EP-01)	1	Sum	
7.15	Supply & install conduits works, power supply and associated works for CCTV system (refer to Drawing No. 05-CP-01)	1	Sum	
7.16	Supply & install conduits works, power supply and associated works for Wi-Fi system (subject to the final requirement of CIC IT dept.) (refer to Drawing No. 05-CP-01)	1	Sum	
7.17	Supply & install conduits works, power supply and associated works for public address system (refer to Drawing No. 05-CP-01)	1	Sum	
7.18	Supply & install conduits works, power supply, indoor and outdoor water proof socket, emergency stop switch and associated works for HVAC system (refer to Drawing No. 05-AC-01)	1	Sum	
7.19	Supply & install conduits works, power supply, and associated works for emergency light and exit sign of fire service system (refer to Drawing No. 05-CP-01)	1	Sum	

(325) in P/AE/PUR/AGC

Item	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
7.20	Supply & install metal trunking for electrical cables (refer to Drawing No. 05-EP-02) a) 2"x2" b) 4"x4" c) 4"x 8" final size and routing to be submitted by the Contractor for the CIC's approval prior to the commencement	80 LM 160LM 10 LM		
7.21	Supply & install metal trunking for voice / data cables, CCTV, Security, AV, F/S, HVAC, etc. (refer to Drawing No. 05-EP-02) a) 2"x2" b) 4"x4" final size and routing to be submitted by the Contractor for the CIC's approval prior to the commencement	90 LM 220LM		
7.22	Supply & install electrical wiring for all light fittings - With zoning control and fulfill the CIC's satisfaction With 450-500 lux at each workstation and at least 350 lux for filing, machine and store room	237 Nos		
7.23	Supply & install conduit works for TV point outlets	1	Sum	
7.24	Supply & install main on/off system for all lighting and HVAC system with separate timer control and extra-time on/off switch (1 press for 2 hours extra-time) (refer to Drawing No. 05-EP-01)	1 Set		
7.25	Supply & install light switches (refer to Electrical Fittings Schedule 05-ELS-02 / E-09 and Drawing No. 05-CP-01)	30 Nos		
7.26	Supply & install LED strip (refer to Electrical Fittings Schedule 05-ELS-04 / E-17 and Drawing No. 05-E-01)	20 LM		
7.27	Supply & install pendant light for rest area (refer to Electrical Fittings Schedule 05-ELS-04 / E-18 and Drawing No. 05-E-01)	10 Sets		

Item	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
7.28	Supply & install T5 fluorescent tube	10		
	(refer to Electrical Fittings Schedule 05-ELS-01	LM		
	/ E-01 and Drawing No. 05-CP-01)			
7.29	Supply & install LED strip	55		
	(refer to Electrical Fittings Schedule 05-ELS-01	LM		
	/ E-02 and Drawing No. 05-CP-01)			
7.30	Supply & install LED strip for reception and rest			
	area's hexagonal suspended false ceiling system			
	- Wood fin. with LED	17 Sets		
	- Paint fin. with LED	12 Sets		
	(refer to Electrical Fittings Schedule 05-ELS-01			
	/ E-02 and Drawing No. 05-CP-01)			
7.31	Supply & install LED spot light	37 Sets		
	(refer to Electrical Fittings Schedule 05-ELS-01			
	/ E-03 and Drawing No. 05-CP-01)			
7.32	Supply & install LED twin down light	27 Sets		
	(refer to Electrical Fittings Schedule 05-ELS-01			
	/ E-04 and Drawing No. 05-CP-01)			
7.33	Supply & install LED down light	6 Sets		
	(refer to Electrical Fittings Schedule 05-ELS-02			
	/ E-05 and Drawing No. 05-CP-01)			
7.34	Supply & install 1200 x 600mm recessed LED	55 Sets		
	light panel (refer to Electrical Fittings Schedule			
	05-ELS-02 / E-06 and Drawing No. 05-CP-01)			
7.35	Supply & install 1200 x 600mm T5 light box	45 Sets		
	(refer to Electrical Fittings Schedule 05-ELS-02			
	/ E-07 and Drawing No. 05-CP-01)			
7.36	Supply & install 600 x 600mm T5 light box	5 Sets		
	(refer to Electrical Fittings Schedule 05-ELS-02			
	/ E-07 and Drawing No. 05-CP-01)			
7.37	Supply & install separate conduit connecting	1	Sum	
	public cable rise to premise for internet			
	broadband, voice, fax, direct line connection			
7.38	Supply & install separate conduit connecting	1	Sum	
	public cable rise to premise for fiber VPN			

Item	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
7.39	Supply & install extension plug with USB	30 Sets		
	charger			
	(refer to Electrical Fittings Schedule 05-ELS-03/			
	E-28)			
7.40	Supply & install motion sensor for all light	1 Set		
	fittings and exhaust fans for female toilet (Staff			
	only)			
	(refer to Electrical Fittings Schedule 05-ELS-03			
	/ E-15 and Drawing No. 05-CP-01)			
7.41	Supply labour and materials to modify,	1	Sum	
	dismantle, relocate, replace all existing MCB,			
	electrical cables, conduit, trucking, fittings and			
	to core wall opening etc. to fit the new layout for			
	new electrical installation, including all			
	associated parts fuse unit and builder's work.			
	The contractor shall submit related details,			
	drawings, schedule and coordination with the			
	CIC prior to the commencement to avoid any			
	disturbance of office			
		Item 7	' – Total :	

- Notes: 7.1 Allow clipsal' E-2000 or equivalent grade for light switch & socket plate
 - 7.2 The void above the false ceiling is used as a return air plenum. All materials used at or above the false ceiling level shall be **non-combustible** and all electrical wiring shall be installed in metal ducting, conduit or trunking.
 - 7.3 The contractor shall submit the overall electrical schematic wiring diagram complete with load data.
 - 7.4 The contractor shall submit the electrical maximum demand calculation of proposed rating.
 - 7.5 The contractor shall submit the lighting and power socket circulating arrangement details.
 - 7.6 The contractor shall submit the proposed conduit runs/trunking routing and those size to each lighting and power point.
 - 7.7 The contractor shall submit the details of electrical circuit of emergency power , lighting system and those connected load data.
 - 7.8 All electrical installations shall be installed in accordance with the latest edition of I.E.E. regulation, the supply rules of the HK Electric Co Ltd. and their approval should be obtained.
 - 7.9 The contractor shall submit all necessary "As Fit" drawings and associated certificates for the CIC's record.
 - 7.10 The contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.

8 – Heating Ventilation and Air Conditioning Works

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
8.0	New HVAC system for Trade Test Service Cent 05-AC-02, 05-AC-03 Including: Installation of VRV the intelligent air refrigerant type: Supply and delivery and install of "DAIKIN conditioning system as following: (or equivalent individually insulated copper refrigerant pipes individually insulated PVC condensate draint refrigerant pipes and condensate drain pipes thick closed cell elastomeric insulation tubes. G.I. angle iron mounting framework for VRV pads, undercoat & finishing painting. Electrical & control wiring with PVC conduction. Weatherproof emergency button at A/C outcomes and the proof of	r conditioning system or conditioning system. " air-cooled VR t grade) es a pipe s individually insurable or main units all unit and wire remote contelligent HVAC ses, samples, material.	tem R410A V the interpolated with the controller system als, equipments	5-AC-01, A relligent air n 3/4 inches w vibration ment, O&M
8.01	VRV A/C Outdoor Main Unit: Supply & install "DAIKIN" R410A VRV the intelligent system air-cooled heat pump type (or equivalent grade) a) System VRV-1 (total cooling capacity – 176.6 KW) b) System VRV-2 (total cooling capacity – 174.5 KW)	1 Set 1 Set		
	(refer to Drawing Nos. 05-AC-01, 05-AC-02 and 05-AC-03)			

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
8.02	Supply and install VRV duct type A/C indoor			
	unit: "DAIKIN" ceiling built-in duct type or			
	equivalent grade:			
	- System VRV-1:			
	a) VIU-D1 (cooling capacity – 2.8 KW)	1 Set		
	b) VIU-D2 (cooling capacity – 3.6 KW)	1 Set		
	c) VIU-D3 (NOT USED)	NIL		
	d) VIU-D4 (cooling capacity – 5.6 KW)	1 Set		
	e) VIU-D5 (cooling capacity – 7.1 KW)	2 Sets		
	f) VIU-D6 (cooling capacity – 9 KW)	8 Sets		
	g) VIU-D7 (cooling capacity – 11.2 KW)	7 Sets		
	- System VRV-2:			
	a) VIU-D1 (cooling capacity – 2.8 KW)	NIL		
	b) VIU-D2 (cooling capacity – 3.6 KW)	1 Set		
	c) VIU-D3 (NOT USED)	NIL		
	d) VIU-D4 (cooling capacity – 5.6 KW)	NIL		
	e) VIU-D5 (cooling capacity – 7.1 KW)	1 Set		
	f) VIU-D6 (cooling capacity – 9 KW)	7 Sets		
	g) VIU-D7 (cooling capacity – 11.2 KW)	9 Sets		
	- Including all necessary G.I. sheet A/C air			
	ductworks with fiberglass insulation			
	- Aluminum supply air diffusers (Double			
	deflection adjustable grille diffuser) and			
	aluminum return air louver in white paint			
	fin. for all area except reception and rest			
	area			
	- Dia. 600mm aluminum supply air diffusers			
	in white paint fin. for all reception and rest			
	area			
	_			
	(refer to Drawing Nos. 05-AC-01, 05-AC-02			
	and 05-AC-03)			

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
8.03	Supply and install "DAIKIN" VRV fresh air			
	processing unit or equivalent grade for A/C			
	indoor unit:			
	a) System PVRV-1 (total cooling capacity – 42	1 Set		
	KW)			
	b) System PVRV-2 (total cooling capacity – 56	1 Set		
	KW)			
	- Including all necessary G.I. fresh air			
	ductworks with VCD and fiberglass			
	insulation and connect to all built-in duct			
	type units			
	(refer to Drawing Nos. 05-AC-01, 05-AC-02)			
	and 05-AC-03)			
8.04	Supply and install "DAIKIN" centralized	1 Set		
	control system or equivalent grade			
	- Central remote controller including all			
	electrical and control wiring with G.I.			
	conduits for each unit			
	(refer to Drawing Nos. 05-AC-01, 05-AC-02			
	and 05-AC-03)			
8.05	For Hub Room – 24/Hours A/C system			
	Supply and install "DAIKIN" air-cooled duct	1 Set		
	type A/C split unit or equivalent grade			
	- VIU-D2 (cooling capacity – 3.6 KW)			
	- Air-cooled ceiling duct connection type			
	- A/C split unit (Inverter – R410A)			
	- Including all necessary G.I. sheet A/C air			
	ductworks with fiberglass insulation			
	- Aluminum supply air diffusers (double			
	deflection adjustable grille diffuser) and			
	aluminum return air louver in white paint fin.			
	- Timer control and auto change setting			
	controller			
	(refer to Drawing Nos. 05-AC-01, 05-AC-02			
	and 05-AC-03)			

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
8.06	Supply & install all necessary power supply for each indoor A/C unit, weatherproof power switch for each outdoor A/C units and outdoor main unit, conduits, cabling, and all associated works, etc.	1	Sum	
8.07	Engineering Charge: - New VRV air-cooled A/C condenser units installed at roof floor area on the same building - any other associated works, etc. - point and software engineering & graphic modification - Drawing submission - software engineering & graphic modification - Coordination, training, preliminaries - testing & commissioning - provision of 1 set of hardcopy and softcopy of proposal & as-fitted drawings in AutoCAD format for submission - 12 months maintenance (on site labour and replacement of parts)	1	Sum	
8.08	Contractor All Risks Insurance: - Loading and unloading air-conditioning units including haulage operation The contractor shall submit related safety plan, delivery proposal, method statement, schedule and coordination with the CIC prior to the commencement to avoid any disturbance of office	1	Sum	

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
8.09	Structural Consultancy Services and			
	Engineering Services Charge:	1	Sum	
	New VRV air-cooled A/C condenser units			
	(outdoor main unit) installed at the ATTC			
	- Including design & provide structural			
	support to the new VRV A/C outdoor			
	condenser units with statement /			
	certification of Registered Structural			
	Engineer (RSE) certifying the design is			
	structurally safe and will not affect the			
	structural integrity of existing structure			
	- And other associated works, etc.			
	- Drawing submission			
	- Software engineering and graphic			
	modification			
	- Coordination, training and preliminaries			
	- Test and commissioning			
	- Provision of 1 set of hardcopy and softcopy			
	of proposal and as-fitted drawings in			
	AutoCAD format for submission			
	- 12 months maintenance services included			
	on site labour and replacement of parts			
	(refer to Drawing Nos. 05-AC-01, 05-AC-02			
	and 05-AC-03)			

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
8.10	Female toilet (Staff only) – Ventilation system			
	supply and install including as follows:			
	- "KURGER" model: in-line duct ventilation			
	fan (or equivalent grade)	1 Set		
	- G.I. sheet air duct with 3 nos. air grille			
	- Electrical control wiring in G.I. conduit			
	- G.I. angle iron mounting framework c/w			
	vibration pads, undercoat & finishing			
	painting			
	- Emergency button			
	- Testing & commissioning			
	- Submission of as-fitted drawings,			
	catalogues, samples, materials, equipment,			
	O&M manual, T&C reports, etc.			
	- 12 months maintenance services included on			
	site labour and replacement of parts			
	(refer to Drawing Nos. 05-AC-01, 05-AC-02 and			
	05-AC-03)			
8.11	Supply and install new aluminum weatherproof	1	Sum	
	air louvre at the external wall window location			
	for the ventilation and fresh air system			
	(refer to Drawing No. 05-AC-01)			
8.12	Supply & install all necessary power supply for	1	Sum	
	conduits, cabling, and all associated works, etc.			
		Item 8	- Total :	

Notes: 8.1 The contractor shall submit proposal, shop drawings, routing details for the CIC's approval

- 8.2 The contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.
- 8.3 The contractor's tender price shall include related air freight and transportation charges if necessary;
- 8.4 Specification for item 8.09:

Building's Maintenance Contractor "Build Jet Engineering Ltd" Contact person:

Mr. Hubert C.M. Wong – phone no.: 5682 6969, 2897 9139

9 – Fire Services Works

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
9.01	Modification of fire services works including:			
	- new/relocate upper level exposed type	1	Sum	
	sprinkler head with new protector			
	- new conceal type for all lower level sprinkler head			
	- supply and install new fire hose reels with			
	manual call point, flashing lamp and modules			
	- to modify/to install new necessary sprinkler pipe			
	- to drain off and refill the sprinkler system /			
	Hose Reel systemto dismantle existing sprinkler head, piping,			
	fittings, etc.			
	- Drainage point for the sprinkler system			
	- all associated works, etc.			
	- software engineering & graphic modification			
	- Supply and install all necessary signs to fulfill the FSD's regulation			
	- issue and Submit FS/251 and 314A certificate to FSD			
	- testing & commissioning			
	- Coordination, training, preliminaries			
	- provision of 1 set of hard copy and softcopy			
	of proposal & as-fitted drawings in			
	AutoCAD format for submission			
	(The contractor shall submit related details,			
	drawings, schedule and coordination with the			
	CIC prior to the commencement to avoid any			
	disturbance of CIC's normal operation)			
	(refer to Drawing No. 05-CP-01)			

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
9.02	Supply & install LED type emergency light			
	fittings, exit sign and directional exit sign			
	including:			
	a) LED emergency light	37 Nos		
	b) LED exit sign and directional exit sign	11 Nos		
	- supply and install ceiling mounted battery			
	conversion kit box for emergency lighting			
	- supply & install exit sign and directional			
	sign			
	- ceiling mounted fuse spur unit, conduits and			
	trucking			
	- all associated works, etc.			
	- issue and submit FS/251 certificate to FSD			
	- supply and install all necessary signs to			
	fulfill the FSD's regulation			
	- testing & commissioning			
	- coordination, training, preliminaries			
	- provision of 1 set of hard copy and softcopy			
	of proposal & as-fitted drawings in			
	AutoCAD format for submission			
	(refer to Drawing No. 05-CP-01)			
9.03	Supply & install visual fire alarms including	35 Sets		
	control box			
	(refer to Drawing No. 05-CP-01)			
9.04	Supply & install conduits works, power supply,	1	Sum	
	and associated works			
9.05	To modify / connect to existing building	1	Sum	
	Automatic Fire Alarm System Panel (AFA)			
	which affected by the fitting out works and			
	related to fit the new layout			
		Item 9	9 - Total :	

Notes: 9.1 Specification for item 9:

Building's maintenance contractor "American Fire Engineering Co Ltd" Contact person:

Mr. Kenny Chung – phone no.: 9685 5011, 2394 1455, 2390 0183 Fax no: 2787 5720

10 – Plumbing & Drainage Works

Items	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
	to modify existing supply water and drain pipe supply and install new floor drain with trap supply and install new copper water supply and uPVC drain pipe solenoid and gate valve supply labour & materials to install all sanitary wares and fittings all associated works, etc. coordination, training, preliminaries testing & commissioning	1	Sum	

Items	Description	*Provisional	Rate	Amount
10.02	Installation of plumbing & drainage works for drinking system and Sink which including: - copper water supply pipe: drinking system - uPVC waste water drain pipe: drinking system - sump pump, drip tray, control box, etc solenoid and gate valve and associated works, etc coordination, training, preliminaries	Qty. 3 Sets	НК\$	нк\$
	 testing & commissioning provision of 1 set of hard copy and softcopy of proposal & as-fitted drawings in AutoCAD format for submission (refer to Drawing Nos. 05-PD-01, 05-PD-02 and 05-PD-03) 			
		Item 10) - Total :	

Notes: 10.1 The contractor shall submit proposal, shop drawings, details and routing for the CIC's approval

<u>11 – Main Power Cable and TV Outlet Points</u>

Items	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
11.01	Installation of Main Power Cable including: - supply & install 300A TPN main power cable and trunking from main meter room to premises - fused switch inside meter room - trunking and conduit works - all associated works, etc issue & submit certificate - coordination, training, preliminaries - testing & commissioning - provision of 1 set of hard copy and softcopy of proposal & as-fitted drawings in AutoCAD format for submission (The contractor shall submit related details, drawings, schedule and coordination with the CIC prior to the commencement to avoid any disturbance of CIC's normal operation) (refer to Drawing Nos. 05-EP-01, 05-EP-02 and 05-EP-03)	1	Sum	

Items	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
11.02	Existing computer server room – Change over			
	of main power cable including:	1	Sum	
	- supply & install TPN main power cable			
	and trunking			
	- fused switch inside meter room			
	- trunking and conduit works			
	- all associated works, etc.			
	- issue & submit certificate			
	- coordination, training, preliminaries			
	- testing & commissioning			
	- provision of 1 set of hard copy and			
	softcopy of proposal & as-fitted drawings			
	in AutoCAD format for submission			
	(The contractor shall submit related details,			
	drawings, schedule and coordination with the			
	CIC prior to the commencement to avoid any			
	disturbance of CIC's normal operation)			
	(refer to Drawing Nos. 05-EP-01, 05-EP-02			
	and 05-EP-03)			

Items	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
11.03	Installation of TV outlet points for rest area including: - supply & install conduit run, outlet boxes and plates or TV outlet points w/. individual co-axial cable connected from meter room to premises - all associated works, etc. - coordination, training, preliminaries - testing & commissioning - provision of 1 set of hard copy and softcopy of proposal & as-fitted drawings in	1	Sum	ПХФ
	AutoCAD format for submission (refer to Drawing No. 05-EP-01)			
		Item 1	1 - Total :	

Notes: 11.1 The contractor shall submit proposal, shop drawings, routing details for the CIC's approval

12 - System and Loose Furniture

Items	Description	* Provisional Qty.	Rate HK\$	Amount HK\$
12.01	Written test room – Supply & install stackable	120	ΠΙΣΨ	ΙΙΙΣΨ
12.01	chairs	Nos		
	(refer to Furniture Schedule 05-FFS-01 / FF-09)	1103		
12.02	Written test room – Supply & install Eco	120		
12.02	balance desk (refer to Furniture Schedule 05-	Nos		
	FFS-01 / FF-10)	1103		
12.03	Written test room – Supply & install lecturer			
12.03	desk			
	- size: 1200 x 600 approx. (check on site)	5 Nos		
	- size: 1500 x 1400 approx. (check on site)	5 Nos		
	(refer to Drawing Nos. 05-D-07 and 05-D-	3 1105		
	(refer to Drawing 1908, 03-D-07 and 03-D-			
12.04	Written test room – Supply & install "POSH"			
12.04	lecturer chair	10 Nos		
		10 1108		
	- CX task chair, black mesh back and black fabric seat			
	- (refer to Furniture Schedule 05-FMS-01 / F-			
12.05	Masting room Supply & install "DOSIL"			
12.03	Meeting room – Supply & install "POSH"			
	meeting table			
	- finish: tungsten silver / queen's maple, cable			
	management	1 NJ -		
	- Size: 1500 x 600 approx. (check on site)	1 No		
	- Size: 2400 x 1100 approx. (check on site)	1 No		
	(refer to Furniture Schedule 05-FMS-01 / F-			
12.06	02 and F-03)	1137		
12.06	Meeting room – Supply & install "POSH" chair	11 Nos		
	- (refer to Furniture Schedule 05-FMS-01 / F-			
	08)			

(325) in P/AE/PUR/AGC

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
12.07	Conference room – Supply & install "POSH"	8 Nos		
	conference table			
	- finish: tungsten silver / queen's maple, cable			
	management			
	- Size: 1450 x 700 approx. (check on site)			
	- (refer to Furniture Schedule 05-FMS-01 / F-			
	02 and F-03)			
12.08	Conference room – Supply & install "POSH"	16 Nos		
	chair			
	- CX task chair, black mesh back and black			
	fabric seat			
	(refer to Furniture Schedule 05-FMS-01 / F-			
	08)			
12.09	Reception's waiting area – Supply & install sofa			
	- Size: 1165W x 960D x 400H approx.	7 Nos		
	(refer to Furniture Schedule 05-FFS-01 / FF-23)			
12.10	Reception's rest area – Supply & install			
	hexagonal corian top table	5 Nos		
	(refer to Furniture Schedule 05-FFS-01 / FF-25)			
12.11	Reception's rest area – Supply & install chair	30 Nos		
	(refer to Furniture Schedule 05-FFS-01 / FF-24)			
	FOR OFFICE			
	"POSH" Partition			
	(refer to Furniture Schedule 05-FMS-01 / F-			
	01, F-02 and F-15)			
12.12	Supply & install EN6 combination panels			
	including as follows:			
	- Size: W1500xH1200mm with Glass Tile	8 Nos		
	- Size: W1600xH1200mm	6 Nos		
	- Size: W450xH1200mm	6 Nos		
	- All necessary components:	1	Sum	
	(post, wall fixer, panel base, end ket, etc.)			
	Finish: H0-125mm cable management			
	Finish: Fabric AG Tungsten Silver			
	Finish: Tackable fabric AG Tungsten Silver			

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
	"POSH" Type E Workstation			
	1 '			
12.13	(refer to Furniture Schedule 05-FMS-01 / F-02, F-03, F-04, F-08 and F-14) Supply & install full set type E workstation including as follows: - SLS table frame, finish: tungsten silver, size: W1500xD600xH725mm - Melamine top, finish: queen's maple, size: W1500/600xD1600/600xH25mm - Cable bracket, size: W500xD150xH32mm - Vertical management - Name tag, colour: Silver-S - 3 drawer floor pedestal, finish: tungsten silver, size: W388xD600xH725mm - Shutter door cabinet, finish: tungsten silver, size: W1500xD450xH725mm - Melamine cabinet top, finish: queen's maple, size: W1500xD450xH25mm - CX task chair, black mesh back and black fabric seat	8 Sets		

Items	Description	* Provisional Qty.	Rate HK\$	Amount HK\$
	"POSH" filing and compactus			
	– (refer to Furniture Schedule 05-FMS-01 / F-			
	03, F-04, F-05 and F-06)			
12.14	Supply & install filing cabinet and compactus			
	including as follows:			
	- 1 bay single movable, finish: tungsten	2 Nos		
	silver/apple green/tungsten silver with lock,			
	size: W1050xD430xH2160mm			
	- 1 bay single fix, finish: tungsten silver/apple	2 Nos		
	green/tungsten silver, size:			
	W1050xD430xH2160mm			
	- 1 bay double movable, finish: tungsten	2 Nos		
	silver/apple green/tungsten silver, size:			
	W1050xD650xH2160mm			
	- All necessary components (rail, rubber, etc.)	1	Sum	
	- Shutter door cabinet, finish: tungsten silver,	3 Nos		
	size: W1500xD450xH925mm			

Items	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
	FOR RECEPION COUNTER			
	"POSH" Seating – (refer to Furniture			
	Schedule 05-FFS-01 / FF-21)			
12.15	Supply & install chair including as follows: - CX task chair, black mesh back and black fabric seat	8 Nos		
		Item	12 total :	

Notes: 12.1 The contractor shall submit details for the CIC's approval

12.2 The contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.

13 – Equipment

Items	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
13.01	Supply & install all equipment			
	- "WHIRLPOOL" fridge, or equivalent	1 No		
	grade			
	(refer to Appliances Schedule 05-APS-			
	01/AP-07)			
13.02	Supply & install drinking system	3 Sets		
	(refer to Appliances Schedule 05-APS-01/AP-			
	09)			
	- R.O. system : H2Office or equivalent grade			
	- high capacity freestanding reverse osmosis			
	water purification system provides hot, cold			
	and room temperature water			
	- production capacity: 200 gallon per day			
	- bundled with leakage detection system			
	- colour in zinc fin.			
		Item 13	3 - Total:	

Notes: 13.1 The contractor shall submit details for the CIC's approval

- 13.2 The contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.
- 13.3 The contractor shall allow system planning, system programming, testing & commissioning, training service, user manual documents,12 months maintenance services include on site labour and replacement of parts.

14 - CCTV and Security System

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
14.01	Supply & install CCTV system including as			
	follows (o			
	- "AXIS" P 3365-V IP Camera	26 Nos		
	(refer to CCTV Schedule 05-CSS-01/CS-02)			
	- "AXIS" T 8351 microphone	3 Nos		
	(refer to CCTV Schedule 05-CSS-01/CS-05)			
	- All "Genetic" camera license (professional)	26 Nos		
	- R730XD "DELL" server with 12 nos. 4TB hard disk	1 Set		
	- "DELL" workstation – OptiPlex TM 7020	1 Set		
	MT with "Genetic" client license			
	- "Dlink" PoE edge switch DES-1210-28P	2 sets		
	- All related cabling, accessories, system	1		
	programming, testing & commissioning			
	- training service	1	Sum	
	- 12 months maintenance services include on	1		
	site labour and replacement of parts		Sum	
	(Refer to CCTV and Security System Schedule		Sum	
	05-CSS-01 and Drawing No. 05-CP-01)			
14.02	Supply & install all necessary power supply,	1	Sum	
14.02	conduits, cabling, and associated works, etc.	1	G	
14.03	Supply & install fiber optic cable with all	1	Sum	
	necessary trucking and protective conduit			
	between L5 hub room to L5a			
14.04	Supply & install fiber optic cable with all	1	Sum	
	necessary trucking and protective conduit			
	between L5 hub room to L7a for CCTV main			
	control system			

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
14.05	Supply & install security system including as			
	follows			
	- "Gallagher" T20 LCD multi tech card reader	2 Nos		
	for entrance (refer to Security System			
	Schedule 05-CSS-01/CS-06)			
	- "Gallagher" T12 multi tech card reader	24 Nos		
	(refer to Security System Schedule 05-CSS-			
	01/CS-07)	2.7		
	- "Gallagher" door controller	3 Nos		
	- "Gallagher" reader interface	27 Nos	a	
	- "Gallagher" power supply unit for all controller	1	Sum	
	- Door contact	31 Nos		
	- Electric lock with power supply	30 Nos		
	- Break glass	26 Nos		
	- Release button	27 Nos		
	- By-pass key switch	7 Nos		
	- Access card	50 Nos		
	- "Delex" lock for exit door (refer to Security	1 set		
	System Schedule 05-CSS-01/CS-11)			
	- "Gallagher" access control software	1	Sum	
	including all door license and workstation			
	- "Gallagher" workstation license	1	Sum	
	- Computer for access control software /	1 Set		
	"DELL" workstation – OptiPlex TM			
	7020MT			
	- "Dlink" PoE edge switch DES-1210-28P	1 No		
	- Network switch with fiber module	1 No		
	- All related cabling, accessories, system	1	Sum	
	programming, testing & commissioning			
	- training service	1	Sum	
	- 12 months maintenance services include on	1	Sum	
	site labour and replacement of parts			
	(Refer to CCTV and Security System Schedule			
	05-CSS-01 and Drawing No. 05-EP-01)			

(325) in P/AE/PUR/AGC

Items	Description	* Provisional Qty.	Rate HK\$	Amount HK\$
14.06	Supply & install all necessary power supply,	1	Sum	
	conduits, cabling, and associated works, etc.			
14.07	Supply & install 1 set of 19" rack to house all	1 Set		
	equipment with 13A power strip board,			
	ventilation fans cable tray, rack mounting			
	shelves			
14.08	Supply & install fiber optic cable with all	1	Sum	
	necessary trucking and protective conduit			
	between L5 hub room to L7a for security main			
	control system			
	Written Test Room			
14.09	Supply and install RFID detection system	1 Set		
	(or equivalent grade)			
	- RFID skyguard	10 nos		
	- Desktop deactivator	1 no		
	- RFID label for iPad	150 Nos		
	- All related cabling, accessories, system	1	Sum	
	programming, testing & commissioning			
	- training service	1	Sum	
	- 12 months maintenance services include on	1	Sum	
	site labour and replacement of parts			
	(Refer to CCTV and Security System Schedule			
	05-CSS-01/CS-12 and Drawing No. 05-CP-01)			
14.10	Supply & install all necessary power supply,	1 Set		
	conduits, cabling, and associated works, etc.			
		Item 14	4 - Total :	

Notes: 14.1 The Contractor shall submit details for the CIC's approval

14.2 The Contractor shall allow system planning, system programming, testing & commissioning, training service, user manual documents,12 months maintenance services include on site labour and replacement of parts.

- 14.3 The Contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.
- 14.4 Specification for item 14:

Building's Maintenance Contractor "The Jardine Engineering Corporation Ltd." Contact person: Mr. Gary Cheng Phone no.: 28074866 / 66561636

Email: gary.mf.cheng@jec.com

15 - Audio & Visual / Public Address System

Items	Description	* Provisional Qty.	Rate HK\$	Amount HK\$
	Conference Room (refer to Drawing Nos.	- Quy	2224	2224
	05-LP-01, 05-EP-01 and 05-CP-01)			
15.01	Supply and install "Epson" EB-1430Wi	1 Set		
	projector			
	(or equivalent grade)			
	- Resolution : 1280 x 800			
	- Brightness: 3100 ANSI lumens			
	- including mounting bracket			
	- custom made VGA input panel			
	- "Vitbest" HDMI extender			
15.02	Supply & install "TOA" A-1706 PA amplifier	1 Set		
	(or equivalent grade)			
15.03	Supply & install JBL control 24CT ceiling	4 Sets		
	speaker (or equivalent grade)			
15.04	Supply & install all necessary power supply,	1	Sum	
	conduits, cabling, and all associated works,			
	etc.			
15.05	Engineering charge:	1	Sum	
	- All necessary signal cable and accessories			
	- Site coordination and supervision			
	- Cabling / wiring			
	- Equipment installation			
	- System programming, testing &			
	commissioning			
	- Provide documentation / user manual			
	- On site training service			
	- 12 months maintenance services include			
	on site labour and replacement of parts			
	Meeting Room 2 (refer to Drawing Nos. 05-			
	LP-01, 05-EP-01 and 05-CP-01)			
15.06	Supply and install "Epson" EB-1430Wi	1 Set		
	projector			
	(or equivalent grade)			
	- including mounting bracket			
	- Input panel			
	"Vitbest" HDMI extender			

Items	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
15.07	Supply & install all necessary power supply,	1	Sum	
	conduits, cabling, and all associated works,			
	etc.			
15.08	Engineering charge:	1	Sum	
	- All necessary signal cable and accessories			
	- Site coordination and supervision			
	- Cabling / wiring			
	- Equipment installation			
	- System programming, testing &			
	commissioning			
	- Provide documentation / user manual			
	On site training service12 months maintenance services include			
	on site labour and replacement of parts Written Test Room (refer to Drawing Nos.			
	05-LP-01, 05-EP-01 and 05-CP-01)			
15.09		5 Sets		
13.09	Supply and install "Panasonic" PT-TW330 Projector	3 Seis		
	(or equivalent grade)			
	- Resolution : 1280 x 800			
	- Brightness : 3100 ANSI lumens			
	- including mounting bracket			
	- custom made VGA input panel			
	"Vitbest" HDMI extender			
15.10	Supply and install:	5 Sets		
13.10	"Da-Lite" slimline electrol 52" x 92" /106"	3 500		
	dia.			
	16:9 Electric screen or equivalent grade			
15.11	Supply and install "Philips" BDP3480K blu-	5 Sets		
	ray player (or equivalent grade)	- 223		
15.12	Supply & install "TOA" A-1706 PA amplifier	5 Sets		
	(or equivalent grade)			
15.13	Supply & install JBL control 24CT ceiling	20 Sets		
	speaker (or equivalent grade)			
15.14	Supply & install handheld mic 1 pairs (or	5 Sets		
	equivalent grade)			
	1		l	1

Items	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
15.15	Supply & install all necessary power supply, conduits, cabling, and all associated works, etc.	1	Sum	1113ψ
15.16	 Engineering charge: All necessary signal cable and accessories Site coordination and supervision Cabling / wiring Equipment installation System programming, testing & commissioning Provide documentation / user manual On site training service 12 months maintenance services include on site labour and replacement of parts 	1	Sum	
	Reception Area – Queuing System (refer to Drawing Nos. 05-LP-01, 05-EP-01, 05-CP-01, 05-E-05 and 05-D-37)			

(225)	٠ :	P/AE/PUR/AGC	
(323) III	P/AE/PUK/AUC	

Items	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
15.17	Supply and install queuing system including as follows (or equivalent grade): - "Samsung" ED32D LCD display panel including mounting bracket x 1no - Control PC including as follows: ("Lenovo" ThinkCentre M93 mini tower, intel core i5 -4590 processor, 4GB DDR3 ram, 1TB SATA hard disk, Giga Lan, 1*VGA+2*DP, RAID 0/1, DVD RW, mini tower case, USB keyboard and USB mouse, MS office home and business 2013, preload windows 7 professional 64bits Win8.1 License) - DSS client license - "Vitbest" HDMI extender - "Kramer" VM-4HC 1:4 HDMI distribution amplifier (refer to Drawing No. 05-EP-01) - Specification: System's maintenance contractor: AVIT ENGINEERING CO. LTD. Contact: Mr. Kelvin Lau Tel: 3575 9585 E-mail: kelvin@avit.hk	1 Set		
15.18	- Supply & install all necessary power supply, conduits, cabling, and all associated works, etc.	1	Sum	
15.19	Engineering charge: - all necessary signal cable and accessories - site coordination and supervision - cabling / wiring - equipment installation - system programming, testing & commissioning - provide documentation / user manual - on site training service 12 months maintenance services include on site labour and replacement of parts	1	Sum	

Items	Description	* Provisional Qty.	Rate HK\$	Amount HK\$
	Public Address System (refer to Drawing	203.	11114	ΙΙΙΨ
	No. 05-CP-01)			
15.20	Supply & install Public Address System			
	including as follows (or equivalent grade):			
	- "TOA" RM-200M Remote Microphone (Location to be re-confirmed by the CIC	1 No		
	- "TOA" VM-2240 240W System Managing AMP	1 No		
	- "TOA" PC-1868 HK Ceiling Speaker	40 Nos		
	- including to connect / modify / upgrade to existing PA system	1	Sum	
	- system programming, testing & commissioning	1	Sum	
	- training service	1	Sum	
	- 12 months maintenance services include	1	Sum	
	on site labour and replacement of parts			
15.21	Supply & install all necessary power supply,	1	Sum	
	conduits, cabling, and all associated works,			
	etc.			
		Item 1:	5 - Total :	

Notes: 15.1 The Contractor shall submit details for the CIC's approval

15.2 The Contractor shall allow system planning, system programming, testing & commissioning, training service, user manual documents,12 months maintenance services include on site labour and replacement of parts.

15.3 The Contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.

<u>16 – Sanitary Wares and Fittings for Female Toilet (Staff Only)</u> <u>(refer to Sanitary Wares Schedule 05-SAS-01)</u>

Item	Description	* Provisional Qty.	Rate HK\$	Amount HK\$
16.01	Supply and install recessed type cubical set with partition and door which including all ironmongery and nylon coated hardware included self closing/opening gravity hinge, indicator lock set with emergency opening and coat hook, anodized aluminium hand rail and v-channel, aluminium alloy height adjustable leg etc. (refer to Sanitary Wares Schedule 05-SAS-01/S-10)	2 cubicles		
16.02	Supply & install mirror wall (refer to Material Schedule 05-MAS-02 / MT-03)	1 Set		
16.03	Supply & install (refer to Sanitary Schedule 05-SAS-01 - wall mounted electric hand dryer (S-04) - wall mounted sensor soap dispenser (S-03) - wall mounted air freshener (S-11)	1 Set 1 Set 1 Set		
16.04	Supply & install (refer to Sanitary Schedule 05-SAS-01) - sensor faucet (S-02) - wall mounted sensor for water closet (S-08)	2 Sets 2 Sets		
16.05	Supply & install (refer to Sanitary Schedule 05-SAS-01) - hand basin (S-01) - water closet (S-07)	2 Sets 2 Sets		
16.06	Supply & install wall furring for water closet and urinal for the maintenance and to house the piping and wall mounted access panel in stainless steel fin. for the maintenance of water closet (refer to Drawing No. 05-D-15 and 05-D-16)	1	Sum	

Item	Description	* Provisional Qty.	Rate HK\$	Amount HK\$
16.07	Supply & install (refer to Sanitary Schedule 05-SAS-01) - wall mounted towel holder (S-12) - wall mounted rolled paper rack (S-09) - custom made litter bin in stainless steel fin. which underneath basin cabinet	1 Set 2 Sets 1 Set		
	(Refer to Sanitary Wares Schedule 05-SAS- 01)			
16.08	To touch up /repair / modify / repaint existing window and door with metal frame	1	Sum	
		Item 16–Tota	al:	

Notes: 16.1 The Contractor shall submit samples & details for the CIC's approval 16.2 The Contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.

<u>17 – Finishes by Specialists</u>

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
	Reception and Rest Area			
17.01	Supply and install "SKK - ECO FRESH	1	Sum	
	CLEAN" coating for ceiling, beam, wall and			
	column finishes which above +- 2250mm AFFL			
	including as follows (or equivalent grade):			
	1) Preliminaries:			
	1a) to provide sufficient protection and			
	precaution work to the working area and all			
	affected area such as masking sheet around			
	the affected area			
	1b) to provide cleaning and cart away debris			
	during installation work and after			
	completion of the works each time			
	1c) to provide sufficient aluminium working			
	platform with certificate during the coating			
	works			
	1d) including workmen's compensation			
	insurance and submit cover note for record			
	(refer to Material Schedule 05-MAS-03 / P-09			
	and Drawing Nos. 05-CP-01 and 05-D-25)			
17.02	Supply and install "SKK - ECO FRESH	1	Sum	
	CLEAN" coating for ceiling, beam, wall and			
	column finishes which above +- 2250mm AFFL			
	including as follows (or equivalent grade):			
	1) Surface preparation:			
	1a) Provide labor and material to remove the			
	loosen paint and skim coat up to the concrete,			
	make good the surface			
	(refer to Material Schedule 05-MAS-03 / P-09			
	and Drawing Nos. 05-CP-01 and 05-D-25)			

Items	Description	* Provisional	Rate	Amount
		Qty.	HK\$	HK\$
17.03	Supply and install "SKK - ECO FRESH	400		
	CLEAN" spray coating for ceiling, beam, wall	SM		
	and column finishes which above +- 2250mm			
	AFFL			
	including as follows (or equivalent grade):			
	1) "SKK - ECO FRESH CLEAN" coating			
	system:			
	1a) Apply one coat of MIRAC SEALER ECO			
	1b) Apply two coats of ECO FRESH CLEAN			
	epoxy coloured top coat			
	(refer to Material Schedule 05-MAS-03 / P-09			
	and Drawing No. 05-CP-01 and 05-D-25)			
17.04	Marking and cut opening for all related	1	Sum	
	installation of electrical, light fittings, fire			
	services, emergency light, CCTV, AV, PA system			
	etc. and all associated works			
			ı	
		Item 1	7 - Total :	

- Notes: 17.1 The Contractor shall submit mock up / samples for the CIC's approval
 - 17.2 The Contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.
 - 17.3 The Contractor's tender price shall include related air freight and transportation charges if necessary
 - 17.4 Specification for item 17.01 to 17.03:

Building's Maintenance Contractor "SKK (HK) Co Ltd."

Contact person: Ms. Kara Kam Phone no.: 25293968 / 68920961

Email: kara@skkhk.com.hk

<u> 18 – Miscellaneous Items</u>

Items	Description	*Provisional	Rate	Amount
		Qty.	HK\$	HK\$
18.01	Supply and install signage for all related areas	1	Sum	
	(refer to Signage Schedule 05-SIS-01, 05-SIS-			
	02, 05-SIS-03 and Drawing Nos. 05-D-29 and			
	05-D-30)			
	- SG-01 x 3 nos			
	- SG-02 x 1 no			
	- SG-03 x 2 nos			
	- SG-04 x 2 nos			
	- SG-05 x 3 nos			
	- SG-06 x 10 nos			
	- SG-07 x 15 nos			
	- SG-08 x 20 nos			
	- SG-09 x 20 nos			
	- SG-10 x 70 nos			
	- SG-12 x 2 nos			
	- SG-13 x 5 nos			
	- SG-14 x 1 no			
	- SG-15 x 200 nos			
	- SG-16 x 10 nos			
	- SG-17 x 10 nos			
	- SG-18 x 8 nos			
	- SG-21 x 6 nos			
	- SG-22 x 4 nos			
	- SG-24 x 1 no			
	- SG-26 x 10 nos			
	- SG-27 x 4 nos			
	- SG-28 x 12 nos			
	- SG-29 x 6 nos			
	- SG-30 x 10 nos			
	- SG-32 x 10 nos			
18.02	Supply & install company signage with logo	2 Sets		
	and letterings (Refer to Material Schedule 05-			
	MAS-05 /M-04 and Drawing No. 05-E-01			
	and 05-E-04)			
18.03	Supply & install sensor soap pump	2 Sets		
	(refer to Sanitary Wares Schedule 05-SIS-			
	01/S-15)			

Items	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
18.04	Supply & install safe	1 Set		
	(refer to Schedule 05-MAS-05/M-09)			
18.05	Supply & install umbrella tray	4 Sets		
	(refer to Schedule 05-MAS-05/M-11)			
18.06	Supply & install warning signage (refer to Schedule 05-MAS-05/M-12)	10 Sets		
18.07	Supply and install litter bin (refer to Material Schedule 05-MAS-05/ M-08)	30 Nos		
18.08	Supply & install window blinds for all window except toilet (refer to Material Schedule 05-MAS-02/B-01)	1	Sum	
18.09	Supply & install frosted film for all toilet's window	1	Sum	
18.10	Supply & install spray paint for all existing windows which to meet the CIC's requirement - including to take away peel off paint and touch up - including to apply primer backing - including to spray 3 coats of new paint (refer to Material Schedule 05-MAS-03/P-11)	1	Sum	
18.11	Supply and install corian window sill for all windows except rest area (refer to Material Schedule 05-MAS-04 / ST-05)	1	Sum	
18.12	Supply and install corian window sill for all rest area's windows (refer to Material Schedule 05-MAS-04 / ST-16)	1	Sum	
18.13	Supply labour and material to touch up and paint by roller for rear staircase's wall and ceiling - colour match with existing (refer to Drawing No. 05-FP-01)	1	Sum	

Items	Description	*Provisional Qty.	Rate HK\$	Amount HK\$
18.14	Supply and install A4 size lesson name plate w/ clear laminate for all classroom (refer to Drawing No. 05-D-31)	10	Sets	
		Item 18 - Total :		

Notes: 18.1 The Contractor shall submit samples & details for the CIC's approval

18.2 The Contractor shall submit mock up / samples for the CIC's approval

18.3 The Contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.

19 - Contingency Sum

Items	Description	Qty.	Rate	Amount
			HK\$	HK\$
19.01	A provisional sum for Contingency	1	Sum	2,500,000
			Total :	2,500,000

Note: 19.1 The provisional sums have been included in the Summary of Tender for Works that are not yet finalized when calling the tender and for contingencies. They may be expended in whole or in part as directed by the CIC or wholly deducted from the Contract Sum if not so required.

Fee Proposal for Optional Deliverables

The following are optional items. The CIC has absolute right to determine whether these optional items will be carried out within the contract period before the award of the contract. Detailed cost breakdown of the Lump Sum Fee for the optional items are set out in Table 2 below:

Table 2 - Detailed breakdown of tender price

Items	Description	* Qty.	Rate HK\$	Amount HK\$
20.01	Supply & install full height block internal brick wall up	256		
	to structure slab and associated with metal frame	SM		
	reinforcement inside toilet and changing room			
	(refer to Drawing No. 05-FP-01)			
20.02	Supply & install solid core single swing internal toilet	5 Sets		
	and changing room door(refer to Door Schedule 05-DS-			
	01/D15)			
20.03	Toilet and changing room- Supply and install basin	6.9		
	cabinets with corian top (refer to Drawing Nos. 05-E-	LM		
	28, 05-E-35, 05-E-38, 05-D-10, 05-D-11 and 05-D-12)			
20.04	Toilet and changing room—Supply and install storage	2		
	cabinet	LM		
	(refer to Drawing Nos. 05-E-28, 05-E-35 and 05-E-38)			
20.05	Toilet and changing room – Supply and install service	4.7		
	bench for hair dryer	LM		
	(refer to Drawing Nos. 05-E-31, 05-E-36 and 05-E-40)			
20.06	Toilet and changing room– Supply and install seating	3.6		
	bench for changing (refer to Drawing Nos. 05-E-30 and	LM		
	05-D-39)			
20.07	Toilet and changing room- Supply and install seating	11.6		
	bench for shower (refer to Drawing Nos. 05-E-30, 05-	LM		
	E-32, 05-E-36, 05-E-41 and 05-D-39)			
20.08	Toilet and changing room- Supply and install locker	19.2		
	(refer to Ironmongery Schedule 05-IRS-03/I-17 and	LM		
	Drawing Nos. 05-E-28, 05-E-30, 05-E-31, 05-E-35, 05-			
	E-36 and 05-E-40)			
20.09	Toilet and changing room- Supply & install wall tiles	677		
	including water proofing layer finish up to false ceiling	SM		
	level (refer to Materials Schedule 05-MAS-04/ ST-06)			

Items	Description	* Qty.	Rate HK\$	Amount HK\$
20.10	Toilet and Changing Room – Supply & install acoustic suspended false ceiling system (refer to Material Schedule 05-MAS-01 / C-02 and Drawing No. 05-CP-01)	160 SM		
20.11	Toilet and changing room – Supply & install floor tiles including water proofing layer finish up to 1200 mm AFFL at wall (refer to Material Schedule 05-MAS-04 / ST-07 &	98 SM		
20.12	Drawing No. 05-FP-01) Toilet and changing room's shower area – Supply & install floor tiles including water proofing layer finish up to false ceiling level at wall (refer to Material Schedule 05-MAS-04 / ST-19 & Drawing No. 05-FP-01)	68 SM		
20.13	Toilet and changing room – Supply & install floor curb including water proofing layer finish (colour match with ST-17) (refer to Drawing No. 05-FP-01)	10 Nos		
20.14	Toilet and changing room – Supply & install 3M entrance mat with stainless floor frame including water proofing layer finish - Size: 800 x 2300 mm approx. (check on site) (refer to Material Schedule 05-MAS-02 / MT-01, CP-03 & Drawing No. 05-FP-01)	4 Nos		
20.15	Supply & install 13A wall mounted twin socket (refer to Electrical Fittings Schedule 05-ELS-02 / E-08 and Drawing No. 05-EP-01)	5 Nos		
20.16	Supply & install 13A ceiling mounted single socket with stainless steel face plate (refer to Drawing No. 05-CP-01)	16 Nos		
20.17	Supply & install conduits works, power supply, indoor and outdoor water proof socket, emergency stop switch and associated works for HVAC System (refer to Drawing No. 05-AC-01)	1	Sum	
20.18	Supply & install electrical wiring for all light fittings With Zoning control and fulfill the CIC's satisfaction	89 Nos		
20.19	Supply & install LED down light (refer to Electrical Fittings Schedule 05-ELS-02 / E-05 and Drawing No. 05-CP-01)	89 Nos		

Items	Description	*Qty.	Rate HK\$	Amount HK\$
20.20	Supply & install motion sensor for all light fittings and exhaust fans for toilet and changing room (refer to Electrical Fittings Schedule 05-ELS-03 / E-15 and Drawing No. 05-CP-01)	12 Sets		
20.21	Supply & install power supply for water heater (refer to Drawing No. 05-CP-01)	11 Sets		
20.22	 Toilet and changing room – Ventilation system supply and install including as follows: "KURGER" model: in-line duct ventilation fan (or equivalent grade) G.I. sheet air duct with necessary air grille Electrical control wiring in G.I. conduit G.I. angle iron mounting framework c/w vibration pads, undercoat & finishing painting Emergency button Testing & commissioning Submission of as-fitted drawings, catalogues, samples, materials, equipment, O&M manual, T&C reports, etc. 12 months maintenance services included on site labour and replacement of parts (refer to Drawing Nos. 05-AC-01, 05-AC-02 and 05-AC-03) 	3 Sets		

Items	Description	*Qty.	Rate HK\$	Amount HK\$
20.23	Toilet and changing room – Installation of plumbing & drainage works including: to dismantle existing pipes to modify existing supply water and drain pipe supply and install new floor drain with trap supply and install new copper water supply and uPVC drain pipe solenoid and gate valve supply labour & materials to install all sanitary wares and fittings all associated builder's works, wall and slab opening, etc. coordination, training, preliminaries testing & commissioning provision of 1 set of hard copy and softcopy of proposal & as-fitted drawings in AutoCAD format for submission (The contractor shall submit related details, drawings, schedule and coordination with the CIC prior to the commencement to avoid any disturbance of CIC's normal operation) (refer to Drawing Nos. 05-PD-01, 05-PD-02 and 05-PD-03)	1	Sum	
20.24	 Toilet and changing room – Installation of water heater and associated plumbing & drainage works including: supply and install 18KW instantaneous electric water heater supply and install new copper water supply piping solenoid and gate valve all associated builder's works, etc. coordination, training, preliminaries testing & commissioning provision of 1 set of hard copy and softcopy of proposal & as-fitted drawings in AutoCAD format for submission (refer to Drawing Nos. 05-PD-01, 05-PD-02 and 05-PD-03) 	11 sets		

Items	Description	*Qty.	Rate HK\$	Amount HK\$
	Reception Area – TV Wall (refer to Drawing Nos. 05-			
	LP-01, 05-EP-01 and 05-CP-01)			
20.25	Supply and install display panel system including as			
	follows (or equivalent grade):			
	- "Samsung" ED32D LCD display panel including mounting bracket	6 Sets		
	- Control PC including as follows:	1 Set		
	("Lenovo" ThinkCentre M93 mini tower, intel core			
	i5 -4590 processor, 4GB DDR3 Ram, 1TB SATA hard			
	disk, Giga Lan, 1*VGA+2*DP, RAID 0/1, DVD RW,			
	mini tower case, USB keyboard and USB mouse, MS			
	office home and business 2013, preload windows 7			
	professional 64bits Win8.1 License)			
	- DSS client license	1 No		
	- "Vitbest" HDMI extender	6 Nos		
	- "Kramer" VM-4HC 1:4 HDMI distribution amplifier	1 No		
	(refer to Drawing No. 05-EP-01)			
	Sanitary Wares and Fittings for Toilet and			
	Changing Room (refer to Sanitary Wares Schedule 05-			
	SAS-01 and 05-SAS-02)			
20.26	Supply and install recessed type cubical set with	10		
	partition and door which including all ironmongery and	cubicle		
	nylon coated hardware included self closing/opening			
	gravity hinge, indicator lock set with emergency			
	opening and coat hook, anodized aluminium hand rail			
	and v-channel, aluminium alloy height adjustable leg			
	etc.			
	(refer to Sanitary Wares Schedule 05-SAS-01/S-10)			
20.27	Supply and install wall mounted urinal divisor	6 Sets		
	(refer to Sanitary Wares Schedule 05-SAS-01/S-13 and			
	Drawing No. 05-D-41)			
20.28	Supply & install mirror wall	4 Sets		
	(refer to Material Schedule 05-MAS-02 / MT-03)			

Items	Description	*Qty.	Rate HK\$	Amount HK\$
20.29	Supply & install (refer to Sanitary Schedule 05-SAS-			
	01)			
	- wall mounted electric hand dryer (S-04)	3 Sets		
	- wall mounted sensor soap dispenser (S-03)	5 Sets		
	- wall mounted air freshener (S-11)	9 Sets		
20.30	Supply & install (refer to Sanitary Schedule 05-SAS-01)			
	- sensor faucet (S-02)	8 Sets		
	- wall mounted sensor for urinal (S-06)	7 Sets		
	- wall mounted sensor for water closet (S-08)	10 Sets		
20.31	Supply & install (refer to Sanitary Schedule 05-SAS-			
	01)			
	- hand basin (S-01)	8 Sets		
	- wall mounted urinal (S-05)	7 Sets		
	- water closet (S-07)	10 Sets		
20.32	Supply & install (refer to Sanitary Schedule 05-SAS-			
	02)			
	- shower mixer (S-016)	11 Sets		
	- shower head (S-17)	11 Sets		
	- rack for shower (S-19)	11 Sets		
20.33	Supply & install wall furring for water closet and urinal	1	Sum	
	for the maintenance and to house the piping and wall			
	mounted access panel in stainless steel fin. for the			
	maintenance of water closet			
	(refer to Drawing No. 05-D-15 and 05-D-16)			
20.34	Supply & install (refer to Sanitary Schedule 05-SAS-			
	01)			
	- wall mounted towel holder (S-12)	1 Set		
	- wall mounted rolled paper rack (S-09)	10 Sets		
	- custom made litter bin in stainless steel fin. which	5 Sets		
	underneath basin cabinet			
20.35	To touch up /repair / modify / repaint existing window	1	Sum	
	and door with metal frame			

Items	Description	*Qty.	Rate	Amount
			HK\$	HK\$
	Centralized Control Server (refer to Drawing No.			
	05-EP-01)			
20.36	Supply & install centralized control server and	1 Set		
	operator workstation including as follows			
	(or equivalent grade):			
	- 22" LCD "LG" 21.5 FHD monitor			
	- Control PC including as follows:			
	("Lenovo" ThinkCentre M93 mini tower, intel core			
	i5 -4590 processor, 8GB DDR3 ram, 1TB SATA hard			
	disk, Giga Lan, 1*VGA+2*DP, RAID 0/1, DVD RW,			
	mini tower case, USB keyboard and USB mouse, MS			
	office home and business 2013, preload windows 7			
	professional 64bits Win8.1 license)			
	- DSS control software			
	- Network switch 16 ports Giga switch			
20.37	Toilet and changing room – Supply & install floor	1 Lot		
	stainless steel grating			
	- submit for CIC approval			
	(refer to Drawing Nos. 05-LP-01, 05-D-32 and			
	Material Schedule 05-MAS-02 / MT-01)			

Notes 20.1 The contractor shall submit samples & details for the CIC's approval

20.2 The contractor shall submit mock up / samples for the CIC's approval

20.3 The contractor shall state the origin, manufacture, brand, model, type, etc. wherever equivalent material be proposed.

Upon receipt and acceptance of the Deliverables for each Payment Stage/ Date by the CIC with satisfaction and upon the submission of invoices to the CIC by the Contractor, the Contractor shall be paid in accordance with the following payment schedule within 30 days of the receipt of the invoices subject to verification of the invoice.

The percentages of payment do not imply or indicate the relative or absolute amount of resources and expenses to be spent by the Contractor to produce the concerned deliverables and to complete the tasks and services.

All interim payments and final account shall be assessed and certified by the Quantity Surveyor. Should there be any variations encountered, all variations shall be subject to the Quantity Surveyor's valuation.

The Contractor shall submit all necessary detailed breakdowns and substantiations to the CIC and the Quantity Surveyor for assessment, certification and/or valuation.

All valid payments as certified by the Quantity Surveyor will then be issued by the CIC upon the receipt of the invoices from the Contractor in respect of such certified payments.

The Quantity Surveyor as employed by the CIC as defined in the definition of the General Conditions of Employment for this project is "Currie & Brown" or any others as assigned by the CIC to act on its behalf.

The payment schedule is as follows:-

Deliverable No.	Deliverable Description	Payment Stage / Date	Payment Schedule (%)
1	- Master Works	2 week after	20%
	Programme	contract	
	- Submit workshop	engagement	
	drawings and catalogues		
2	Upon 50% Completion of	60 calendar days	30%
	Fitting Out Works	(approx.) after	
	(subject to the CIC's	contract	
	satisfaction)	engagement	
3	Completion of Fitting Out	120 calendar days	30%
	Works (subject to the	after contract	
	CIC's satisfaction)	engagement	
4	As-built drawings and	1 month after	10%
	Operation & Maintenance	Practical	
	Manual (including	Completion of the	
	electronic and hardcopy in	Works	
	pdf and AutoCAD format)		
5	Completion of all Phases	Upon expiry of 12	10%
		months DLP after	
	[Retention for 12 months	completion of	
	Defects Liability Period	works and	
	(DLP)]	making good of	
		all the defects	
		during DLP	
		Total	100%

Defects Liability Period		<u>12</u> month(s)					
Date for 1	Possession/	Within	7 cale	ndar day	s fron	n the C	CIC's
Commencement		written notice to commence					
Date for Completion	Date for Completion		days	from	the	Date	of
_		Possess	sion/Con	nmencem	nent		
Liquidated and A	Ascertained	At the	rate of H	K\$ 10,00	00 per d	lay	
Damages							
Period of Final Shop drawings and		1 mont	t h after I	Date for F	ractica	l Comple	etion
Maintenance Manual						-	

Design, Project Management and Fitting Out Works for Trade Test Service Centre

of Model Trade Test Centre for the Construction Industry Council
(325) in P/AE/PUR/AGC

:
Name of Company

Signature of Person Authorized
to Sign for the Proposal*

(with company chop)

Address

Tel No.:

Fax No.

Date:

Email:

^{*} If the tender is submitted by a Joint Venture, all participants in the Joint Venture must sign the Fee Proposal.

APPENDIX E – Tender Evaluation Procedures and Criteria

1. INTRODUCTION

- 1.1 A two-envelope approach is adopted for tender submission, i.e. Tenderer should submit the technical proposal including all information specified in **Appendix A of the Conditions of Tender** and **Special Conditions of Tender**, and the letter annexed in **Appendix B** and mentioned in Clause 4.28 of the Conditions of Tender in one envelope and the fee proposal comprising the completed Form of Tender using the prescribed form provided in **Appendix C of the Conditions of Tender** and the Fee Proposal using the prescribed form provided in **Appendix D of the Conditions of Tender** in a separate envelope. Fee proposal would only be opened after the technical assessment is completed subject to Clause 1.4 below.
- 1.2 A marking scheme as described below will be used for evaluating the tenders. Tender proposals shall be evaluated based on two separate aspects, namely the technical assessment and the fee assessment.
- 1.3 The pre-determined weights for technical and fee assessments are 60% and 40% respectively.
- 1.4 If the technical assessment mark in Table 1 below is less than 60% of the maximum marks, the tender proposal will be rejected and will NOT be further assessed and its fee proposal envelope will NOT be opened.
- 1.5 The rejected tender proposal will NOT be included in the weighted technical assessment score formula in Clause 2.2 and the weighted fee assessment score formula in Clause 3.2 below. The CIC reserves its right to cancel this tender exercise and re-tender thereof without further notice to the tenderer.
- 1.6 An assessment panel will be established for tender evaluation. The proposal received will be evaluated in accordance with the requirements in this Appendix.

2. TECHNICAL EVALUATON

2.1 Detailed evaluation of the technical proposal including all information specified in Appendix A of the Conditions of Tender shall be made in accordance with the assessment criteria described in Table 1.

Table 1 – Technical assessment marking scheme

Assessment Criteria	Assessed Marks (%)	Maximum Marks (%)
Assessment will be based on the following criteria:-		
1. Tenderer's profile, background and expertise (10%)		10%
2. Job reference of the Tenderer in carrying out similar project nature and scale. (10%)		10%
3. Proposed composition and organization of project team with qualifications, experience and capability of team members in carrying out similar construction services. (30%)		30%
The following sub-criteria shall be considered: (a) Organisation of Proposed Project and Design Teams (10%) (b) Qualification, Experience and Capability of Proposed Project and Design Teams (10%) (c) Registered General Building Contractor (RGBC) or Registered Minor Works Contractor (RMWC) (10%)		
4. Approach and method statement to (i) fulfill the objectives described in Assignment Brief; and (ii) carry out and complete all the tasks described in the Assignment Brief (35%)		35%
The following sub-criteria shall be considered: (a) Proposed Project Methodology (15%) (b) Safety & Health and Environmental measures for the Project (15%) (c) Works Quality Assurance (5%)		
5. Work programme to (i) fulfill the objectives described in Assignment Brief; and (ii) carry out and complete all the tasks described in the Assignment Brief (15%)		15%
Total:		100%

2.2 The weighted technical assessment score of a tender shall be determined in accordance with the following formula:

60 x Technical assessment mark of the subject tender
Highest technical assessment mark of all tenders

3. FEE EVALUATION

- 3.1 Tender fee for evaluation shall be the lump sum quoted in Appendix D Fee Proposal of the Conditions of Tender.
- 3.2 The weighted fee assessment score of the tender proposal shall be worked out in accordance with the following formula:

4. CALCULATION OF COMBINED SCORES

4.1 The combined assessment score of a tender proposal shall be the sum of the weighted technical assessment score (Cl.2.2) and the weighted fee assessment score (Cl.3.2).

APPENDIX F - Reply Slip for Declining Bid

With reference to your tender invitation (<u>Tender Reference</u>: (325) in P/AE/PUR/AGC, Closing <u>Date</u>: 2 November 2017), I/we regret that I am/we are unable to bid due to the following <u>reason(s)</u>:

(Please tick against the box(es) where applicable)					
	Inadequate time to prepare tender proposal. Suggested timeframe for proposal preparation: days				
	Invitation document contains insufficient details. Suggested supplementary details:				
	Work scope too broad. Would you consider bidding if the work scope is reduced? ☐ Yes ☐ No Or which part(s) of the work scope shall be reduced to facilitate your consideration in bidding (please specify)?				
	Work scope too narrow. Would you consider bidding if the work scope is broadened? Yes No Or what supplementary details shall be added to facilitate your consideration in bidding (please specify)?				
	Not interested in this type of service.				
	Working at full capacity at the moment.				
	Work scope beyond firm's / organisation's expectation.				

Cannot meet project time schedule. Suggest months	ed timeframe for the project:	
Requirements / Specifications too restrictive.		
Others (please specify):		
Signature	:	
Full Name of Contact Person	:	
Position	:	
Name of Company	:	
Telephone No.	:	
Fax No.	:	
E-mail	:	
Date	;	

Note:

- 1) Please return the completed reply slip to fax no: 2100 9439 no later than 12:00 p.m. on 1 November 2017.
- 2) Please contact Ms. Winnie To at Tel: 2100 9088 or email: winnieto@cic.hk for any enquiry.

APPENDIX G – Reply Slip for Tender Briefing and Site Visit Session

I/We would like to attend the tender briefing and site visit session for the Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council at 2:00 p.m. on 13 October 2017 at 95 Yue Kwong Road, Aberdeen, Hong Kong

Full Name of Attendee(s)	Post/Title
Company Name:	
Contact Person:	Post/Title
Address:	
Telephone No : :	Fax No:
Mobile Phone No:	E-mail:

Note:

- 1. Each Tenderer shall register three attendees at most.
- 2. Please return the completed reply slip to fax no: 2100 9439 no later than 5:00 p.m. on 12 October 2017.
- 3. Please contact Ms Winnie TO at Tele: 2100-9088 or email: winnieto@cic.hk for any enquiry.

Special Conditions of Tender

for

Design, Project Management and Fitting Out Works for

Trade Test Service Centre

of

Model Trade Test Centre

for

the Construction Industry Council

October 2017

© 2017 Construction Industry Council

The contents of this document remain the property of the CIC, and may not be reproduced in whole or in part without the expressed permission of the CIC.

Special Conditions of Tender

To be included in Technical Proposal

Special Conditions of Tender

1. Statement of Convictions under the Immigration Ordinance (Cap. 115)

- 1.1 A tender will not be considered if, during the 12-month period prior to the closing date set for receipt of tenders, the tenderer has more than two convictions in respect of separate incidents under Sections 17I or 38A of the Immigration Ordinance (Cap. 115) for employing illegal immigrants or for having illegal immigrants on any site under the tenderer's control.
- 1.2 The tenderer shall submit with the tender a <u>statement of either all convictions under Section 17I or 38A of the Immigration Ordinance (Cap. 115)</u> for employing illegal immigrants or for having illegal immigrants on any site under the tenderer's control, and the dates of all such convictions, during the 12-month period prior to the closing date set for receipt of tenders, <u>or a statement of "no conviction"</u>. The statement shall be certified by a person authorized to sign the contract on the tenderer's behalf.

2. Statement of Convictions under the Factories and Industrial Undertaking Ordinance (Cap. 59)

2.1 The tenderer shall submit with the tender a <u>statement of either all convictions under the Factories and Industrial Undertakings Ordinance, (Cap. 59)</u> for site safety convictions for all sites under the tenderer's control, and the dates of all such convictions, during the 12-month period prior to the closing date set for receipt of tenders, <u>or a statement of "no conviction"</u>. The statement shall be certified by a person authorized to sign the contract on the tenderer's behalf.

3. Statement of Convictions under the Employment Ordinance (Cap. 57)

3.1 A tender will not be considered if, during the 12-month period prior to the closing date set for receipt of tenders, the tenderer has had three or more convictions in respect of separate incidents under the Employment Ordinance (Cap. 57) which individually carry maximum fines corresponding to Level 5 or higher within the meaning of Schedule 8 to the Criminal Procedure Ordinance (Cap. 221).

3.2 The tenderer shall submit with the tender <u>a statement of either all convictions under the Employment Ordinance (Cap. 57)</u>, and the dates of all such conviction, during the 12-month period prior to the closing date set for receipt of tenders, or <u>a statement of "no conviction"</u>. The statement shall be certified by a person authorized to sign the contract on the tenderer's behalf.

4. Outline Health & Safety Plan

- 4.1 All tenderers should submit, as part of the tender, an Outline Health & Safety Plan (Outline Plan) which shall contain sufficient information to demonstrate the tenderer's proposals for achieving effective and efficient health & safety procedures. Failure to submit the Outline Plan may invalidate the tender.
- 4.2 The Outline Plan should start with a formal statement of policy in relation to health & safety and should include:
 - (i) An assessment of risks associated with the works activities when carrying out the Works,
 - (ii) An outline of the health & safety procedures and protective controls to be developed,
 - (iii) Manner by which they would be implemented and monitored to ensure health & safety on the Site.
- 4.3 The Outline Plan should provide a suitable basis for the development of the Health & Safety Plan. The tenderer may be required to amplify, explain or develop the Outline Plan for the consideration of acceptance of tender.
- 4.4 Typical foreseeable hazards associated with construction works may include but not limited to the following:
 - (i) The use of construction plant and equipment, including lifting appliances. e.g. tower cranes, excavators.
 - (ii) All temporary works including design, erection, loading, unloading and dismantling.
 - (iii) The dangers of rigging and of handling wire ropes.
 - (iv) The handling, use, storage and transportation of materials and substances.
 - (v) Hot working including grinding, chipping, cutting, welding, burning, etc.
 - (vi) Exposure to hazardous substances.
 - (vii) Exposure to dust, fumes, vapors, etc.
 - (viii) The risk of natural causes e.g. Typhoons.

- (ix) The risks of using electricity on site.
- (x) Risks posed to public members.

5. Selected Domestic Sub-Contractor

5.1 The tenderer shall submit with his tender a list of sub-contractors to whom the tenderer proposes to sublet section(s) of works stating its willingness to enter into a domestic sub-contract with the tenderer to carry out the works mentioned in this tender.

6. Tenderer's Design

- 6.1 This project is a Design and Build Lump Sum Contract in which a series of items marked with "*" are subject to re-measurment with reference to the Employer's requirements as contained in the Assignment Brief and its Annexes. All the drawings provided are preliminary design for information only. The tenderer who is eventually awarded as the Conctractor of the project has to develop a full detailed design to meet the Employer's Requirements.
- 6.2 Apart from the quantities changes in respect of the detailed design as compared with the preliminary design that are subject to re-meaurement, should there be any additions and/or omissions that would be involved in the detailed design, these additions and/or omissions would be valuated by the Quantity Surveyor employed by the CIC. Any valid valuated variations would be covered by variation orders issued by the CIC.
- 6.3 The above Clauses 6.1 and 6.2 are the expressed provisions of the terms of the Contract as mentioned in the Clause 7(4) of this section of Contract Document.

7. Schedule of Rates

- (1) The tenderer shall enclose with his tender the completed Schedule of Rates for Fitting Out Works to be carried out under the Contract according to the Assignment Brief and its Appendix
- (2) The Schedule of Rates shall be in such details to indicate the breakdown of the works. Failure to submit the Schedule of Rates may cause his tender not to be considered by the Employer.
- (3) Any items which are not included in the Schedule of Rates but shown on the drawings or described in the specifications in the Assignment Brief and its Appendix shall be deemed to have been included in the tender figure.

- (4) Upon award of the Contract, the Schedule of Rates shall be deemed to be the Contractor's Schedules and will be regarded as firm and will not be subject to remeasurement or adjustment whatsoever otherwise than in accordance with the expressed provisions of the terms of the Contract.
- (5) The total of the Schedule must agree with the amounts carried to the Summary of Tender. Any items which are not included in the Schedule but shown on the drawings or described in the specification in the Employer's Requirements shall be deemed to have been included in the tender figure. The rates in the Schedule shall be used for the valuation of variations ordered by the Employer, but the quantities referred to in the Schedule shall not form part of the Contract Documents.

The tenderer should note that the quantities as inserted in the Schedule of Rates for all measured work should be consistent with those shown on the tender drawings. Where large discrepancy or apparent inconsistency in the quantity of any item is identified, the item total will remain intact and the tenderer will be requested to adjust the unit rate and the quantity to tally with the item total.

8. General Building Contractor Registration / Minor Works Contractor Registration

The tenderer must give the registered number and the date of expiry of registration of their Registered General Building Contractor (RGBC) Or Registered Minor Works Contractor (RMWC) here:

Registered General Building Contractor (RGBC) No. :	_
Date of expiry for the above registration :	
Registered Minor Works Contractor (RMWC) No.:	
Date of expiry for the above registration :	

Assignment Brief

of

Design, Project Management and Fitting Out Works for

Trade Test Service Centre

of

Model Trade Test Centre

for

the Construction Industry Council

October 2017

© 2017 Construction Industry Council

The contents of this document remain the property of the CIC, and may not be reproduced in whole or in part without the expressed permission of the CIC.

Assignment Brief

of

Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council

Table of Contents

		Page	
1.	Background	AB-3	
2.	Objectives	AB-3	
3.	Assignment Scope	AB-3	
4.	Presentations	AB-8	
5.	Deliverables	AB-8	
6.	Brief Programme	AB-10	
7.	Management of the Contractor	AB-10	
8.	Contractor's Office and Staffing	AB-11	
9.	General Specifications	AB-14	
An	nexes:		
An	Annex 1 - Definitions AB-2		
An	Annex 2 -Technical Specifications AB-25		
An	Annex 3 - Specifications Schedules AB-103		
An	Annex 4 – Tender Drawing AB-10		

1. Background

- 1.1 The Construction Industry Council (CIC) is seeking for a contractor (the Contractor) to carry out the design, project management and fitting out works for Trade Test Service Centre of Model Trade Test Centre at Level 5 (the Works) of the Aberdeen Trade Testing and Training Centre (ATTC) situated at No. 95, Yue Kwong Road, Aberdeen, Hong Kong (the Site).
- 1.2 The existing condition of the Site at Level 5 of the ATTC is partly in bare shell condition and the site area is of about 940 square metres. The fitting out / renovation works include reception counters, office area, food and beverage refreshment area, meeting / conference rooms, filing areas, written test class rooms, computer hub room, waiting area, lobby and corridors, male and female toilets and changing rooms, and various ancillary office facilities.

2. Objectives

- 2.1 The Contractor must provide high quality of works, to complete the Assignment within schedule and budget.
- 2.2 The Contractor must organise and coordinate with different parties including users, sub-contractors, and other parties engaged / nominated by the CIC.

3. Assignment Scope

- 3.1 The Works under this Assignment comprise of the provision of all necessary materials and labour to carry out the Design, Project Management and Fitting Out Works for the new Trade Test Service Centre (the Works) situated at Level 5 of the Aberdeen Trade Testing and Training Centre (ATTC) of the CIC in accordance with this Assignment Brief including drawings, material schedule and other specifications and other parts of the tender documents.
- 3.2 The Scope of the Works as shown in the Contract document may be deleted / omitted, its quantities may be varied at the sole discretion of the CIC.
- 3.3 Other items of work directly or indirectly related to this Contract may be added by the CIC with the agreement of the Contractor and shall form part of the overall scope of the Agreement. Such additional works are subject to the terms and conditions of the Agreement with additional fees that are to be mutually agreed by the CIC and the Contractor.
- 3.4 The Contractor is responsible for the design, project management and fitting out / renovation works of the new service Centre which shall fulfill the following requirements:
 - (a) To serve as the Project Manager for the overall management of the project;
 - (b) To provide renovation design for the new service centre;

- (c) To engage specialist sub-contractor(s) to carry out the setting up, alteration and addition works and structural modification works necessary for the Works;
- (d) To handle the suspected unauthorized building works (UBWs) within the Site of the proposed new service centre in order to fulfill all statutory requirements;
- (e) To assist and represent the CIC to apply for necessary statutory licenses for all alteration and addition works required for the project;
- (f) To assist and represent the CIC to apply for necessary statutory licenses for the operation of the new service centre.
- 3.5 The Contractor shall conduct a **Detailed Design for the new service centre**, including but not limited to the following:
 - (a) Conduct site visits in the ATTC and review the CIC's existing preliminary design to gain an understanding on layout and workflow;
 - (b) Optimise the workflow for the new service centre;
 - (c) Optimise the layout and interior design of the new service centre with the necessary facilities and equipments for the operation;
 - (d) Prepare design documentation and project programme for the entire course of the project;
 - (e) Propose design that complies with the CIC's requirements and fulfill all statutory requirements;
 - (f) The Contractor shall prepare and further develop a detailed design based on the preliminary design for all aspects of the fitting out / renovation works of the new service centre, including but not limited to updating the floor layout through conversion of the existing computer server room to maximise the use of the floor area as part of the new service centre to the CIC's satisfaction.
 - (g) All proposed layout plans shall be fully in compliance with the latest version of Code of Practice for the provision of Means of Escape (MOE) in case of fire issued by the Buildings Department (BD) and others relevant statutory requirements;
 - (h) The design and associated works of the project shall be prepared by the Authorized Person (AP) / Registered Structural Engineer (RSE), if necessary, that comply with the procedure of formal submissions to the Buildings Department (BD) and/ or relevant Ordinance and Regulations under Electrical and Mechanical Services Department (EMSD) and other relevant statutory requirements;
 - (i) Review floor plans to determine space requirements with respect to the CIC's needs;
 - (j) Review the existing fire services facilities of the proposed E&M Model Trade Testing Workshop and propose a comprehensive fire service facilities requirement for the proposed the new service centre;

- (k) Review the existing illumination of the proposed Centre area and propose a comprehensive lighting requirement for the proposed the new service centre;
- (l) Review the existing preliminary design of the proposed area and propose a comprehensive ventilation requirement for the proposed the new service centre;
- (m) Review the existing security of the proposed the new service centre area and propose a comprehensive security requirement for the proposed E the new service centre;
- (n) The Contractor shall comply with CIC's standard design where appropriate. details of such items will be further confirmed by the CIC;
- (o) Prepare sketches and propose materials based on CIC's preliminary design and / or Contractor's further developed detailed design wherever appropriate, and suggest alternatives if appropriate;
- (p) Conduct site survey for accurate dimensions of the site and services analysis after study the physical location before the commencement of the setting-up works;
- (q) If the works fall into the classification of the Minor Works Control System (MWCS), the Contractor shall ensure that the works are completed in accordance with the Guidelines on Minor Works Control System for interior renovation / alternation and subdivision of a flat issued by BD / EMSD and others relevant statutory requirements; and
- (r) Develop a Model operation and maintenance manual as a reference.
- 3.6 The Contractor shall provide **Project Administration and Management** services, including but not limited to, the following:
 - (i) Provide project management services for the setting up, alteration and addition works, and structural modification works:
 - (ii) Assist the CIC in negotiation with specialist sub-contractor(s) and/or supplier(s) etc;
 - (iii) Check the setting out prior to commencement of the setting out, alteration and addition works, structural modification works in accordance with the approved layout;
 - (iv) Prepare a detailed working programme for the fitting out, alteration and addition works and structural modification works:
 - (v) Conduct site inspections to ensure works are carried out in a safe manner, in compliance with design specifications and in accordance with drawings or any other pre-determined standards;
 - (vi) Control and supervise overall site activities and coordinate with the CIC and all contractors engaged by the CIC;
 - (vii) Measure the actual quantities of the works and submit to the CIC for approval;

- (viii) Subject to the CIC's agreement, assist the CIC to draft instructions for variations;
- (ix) Submit quotations and sufficiently detailed breakdown for valuation of variation of works including addition, alternation and / or omission/deduction of works;
- (x) Provide full time project manager and supervisor to monitor the work progress and to ensure that quality, performance and workmanship are in full compliance with the design drawings and specifications;
- (xi) Monitor overall financial, commercial, contractual and technical matters for the project;
- (xii) Prepare and submit progress reports and payment applications with detailed breakdown substantiated with supplier's quotations to the CIC and its designated Quantity Surveyor and its Project Management Consultant and / or their representatives for assessment;
- (xiii) Carry out testing and commissioning before handover, if necessary;
- (xiv) Prepare list of defects for CIC's review.
- 3.7 The Works under this Contract shall include but not limited to the following:
 - (a) Supply and install all interior finishes including flooring and wall finishes and provide all necessary fittings and fixtures according to Drawings, Specifications and/or approved sample as per the Material Schedules.
 - (b) Supply and install all full height gypsum board partition, "PROMAT" fire proof rated partition, glazed partition, sound proof partition, doors, fire proof rated door and provide all necessary fittings and fixtures according to Drawings, Specifications and/or approved sample as per the Material Schedules.
 - (c) Supply and install all full height cabinet, hanging and low cabinet, display, storage cabinet and provide all necessary fittings and fixtures according to Drawings, Specifications and/or approved sample as per the Material Schedules.
 - (d) Supply and install all fitting out works of Male & Female Toilet and Changing Room including plumbing and drainage works and provide all necessary fittings and fixtures according to Drawings, Specifications and/or approved sample as per the Material Schedules.
 - (e) Supply and install all system and loose furniture and provide all necessary fittings and fixtures according to Drawings, Specifications and/or approved sample as per the Material Schedules.
 - (f) Supply and install all electrical works and lighting works and installation and marked the opening for all fittings which refer to Schedule of Rates and provide all necessary fittings and fixtures according to drawings, specification and/or approved sample.

- (g) Supply and install all fire services installation refer to Schedule of Rates and provide all necessary fittings and fixtures according to drawings, specification and/or approved sample.
- (h) Supply and install all mechanical ventilation and air conditioning and control system installation refer to Schedule of Rates and provide all necessary fittings and fixtures according to drawings, specification and/or approved sample. And including to design and provide structural support with statement / certification of Registered Structural Engineer (RSE) to certifying it is structurally safe and will not affect the structural integrity of existing structure.
- (i) Supply and install all main power cable and TV outlet installation refer to Schedule of Rates and provide all necessary fittings and fixtures according to drawings, specification and/or approved sample.
- (j) Supply and install all CCTV and Security system installation refer to Schedule of Rates and provide all necessary fittings and fixtures according to drawings, specification and/or approved sample.
- (k) Supply and install all audio & visual system, public address system and queuing system installation refer to Schedule of Rates and provide all necessary fittings and fixtures according to drawings, specification and/or approved sample.
- (l) Supply and install modular suspended false ceiling system and provide all necessary fittings and fixtures (custom made, if necessary) according to drawings, specification and/or approved sample.
- (m) Supply and install spray texture paint coating system to internal wall, bulkhead, beam, structural ceiling and provide all necessary fittings and fixtures according to drawings, specification and/or approved sample.
- (n) Supply and install non slip floor tile system, carpet floor with cushion backing, vinyl floor with cushion backing system including associated skirting and provide all necessary fittings and fixtures according to drawings, specification and/or approved sample.
- (o) Supply and install all preliminaries items refer to Schedule of Rates and provide all necessary fittings and fixtures according to drawings, specification and/or approved sample.
- (p) Provide all necessary protection to existing and new finishes and properties of the ATTC building during the execution of the Works.
- (q) Supply and install all miscellaneous items refer to the Schedule of Rates and provide all necessary fittings and fixtures according to Drawings, Specifications and/or approved sample as per the Material Schedules.
- (r) The Contractor has to work with the CIC's instructions to comply with all works required prior to the CIC's inspections.

Additional Services

3.8 Other items of work directly or indirectly related to this works project Contract may be added by the CIC with the agreement of the Contractor and shall form part of the overall scope of the works project and be covered by the terms of the Agreement with additional fees that mutually agreed by the CIC and the Contractor.

4. Presentations

- 4.1 To attend all meetings with the CIC and any other relevant department(s) for reporting of progress on technical matters;
- 4.2 To conduct interviews with users departments to verify the users requirements and technical specifications, if necessary;
- 4.3 To present Contractor Report to the CIC at the weekly coordination meetings; and
- 4.4 To conduct site safety walk with relevant parties and the CIC;

5. Deliverables

- 5.1 The works project and all deliverables shall comply with the Contract requirements to the satisfaction of the CIC. Should there be different interpretations between the CIC and the Contractor against any requirements in the Contract, the CIC shall have the final jurisdiction on the explanation and approach of the implementation for the requirements. The Contractor shall follow the explanation of the requirements and the instructions given by the CIC to implement the solution to the satisfaction of the CIC.
- 5.2 To prepare the following Deliverables:
 - (a) To submit detailed Project Plan including but not limited to, defined goals, scopes and objectives of the plan, timelines, resources and individual responsibilities.
 - (b) To submit Project Organization Chart, project contact list, emergency contact list, master works programme, etc., for the CIC's approval;
 - (c) To prepare and submit daily reports including numbers of workers, trades, site photo records, etc. to the CIC;
 - (d) To prepare and submit Contractor's weekly progress reports which contain updated working programmes, shop drawings and material submission schedule, site safety reports, album of progress photographs with sufficiently detailed annotations and other necessary documents to the CIC during weekly progress meetings;
 - (e) To prepare minutes of weekly meetings;
 - (f) To prepare and submit materials samples, catalogues, technical data and specifications for the CIC's approval;
 - (g) To prepare and submit detailed design, 3D rendering perspective views and shop drawings for the CIC's approval prior to the commencement of the Works;
 - (h) To prepare and submit as-constructed drawings (hard copy, pdf and editable AutoCAD files) of the Works and structural modification works (if any).

- 5.3 All works produced by the Contractor shall be subject to the acceptance by the CIC. The CIC will endeavour to respond to and comment on the works submitted by the Contractor within TWO (2) weeks of submission as practical as possible. The Contractor shall rectify and supplement the submissions within TWO (2) weeks upon receiving comments from the CIC and/or stakeholders.
- 5.4 All works must be submitted in English and Chinese to the satisfaction of the CIC.
- 5.5 The copyright of all reports, documents, recommendations, data and any other information prepared or collected by the Contractor, its Specialist(s) and the Sub-contractor(s) and their employees and agents in the course of this works project shall be borne with the CIC.

6. Brief Programme

- 6.1 The works project shall be completed within <u>150</u> calendar days under the supervision of the CIC.
- 6.2 The Contractor undertakes to carry out the Works and submit the Deliverables as stipulated in the Assignment Brief and its Annexes to the CIC in accordance with the tentative programme specified in Paragraph 6.3 below or as directed / agreed by the CIC from time to time.
- 6.3 Supplementary information or reports other than the deliverables stated below shall be prepared and delivered at such time upon request by the CIC.
- 6.4 The following activities shall be taken into consideration in the preparation of the programme:

Task	Description of Deliverables	Deadline
(1)	To submit Master Works Programe	1 week after contract
		engagement
(2)	To submit workshop drawings and catalogues, if	2 weeks after contract
	applicable	engagement
(3)	To commence the Fitting Out Works	1 week after contract
		engagement
(4)	To complete the Fitting Out Works	150 calendar days after
		contract engagement
(5)	To produce and submit As-built Drawings	1 month after Practical
		Completion of fitting-out
		works

7. Management of the Contractor

- 7.1 The Contractor shall be directed and supervised by the CIC.
- 7.2 References to the CIC in this Assignment Brief and its Annexes shall include the task groups set up under the CIC. The CIC Secretariat will facilitate the CIC in supervising the Contractor.
- 7.3 The Contractor shall obtain the approval of the CIC (where appropriate) before commencement of each stage of the Assignment.
- 7.4 The Contractor shall attend all meetings held by the CIC formed for this works project and the internal meetings of the CIC as required and necessary.

8. Contractor's Office and Staffing

- 8.1 The Contractor shall maintain for the duration of this works project an office in Hong Kong under the control of a Project Manager with at least 10 years of management experience in works project.
- 8.2 The composition of the Contractor's team shall include at least the following team members:

(a) **Project Manager**

The Project Manager shall be fully responsible for overall contractual, managerial, technical and co-ordination matters. The Project Manager shall:

- (i) has a minimum of 10 years' in fitting-out works / building services engineering or related experience;
- (ii) has the responsibility and absolute authority for the overall administration and control of all his staff, including the deployment and redeployment of personnel and their removal from the Contract; and be given the overall responsibility for procurement of material required for the Works.

(b) Full time Site Supervisor

The Contractor shall provide a Full Time Site Supervisor for installation, routine and comprehensive maintenance service, and emergency service, under close direct supervision of the Project Manager. Full time site supervisor shall:

- (i) have a minimum of 5 years' fitting-out experience, which shall be in the capacity of site management / site supervision;
- (ii) have the authority and responsibility for day-to-day administration of the fitting-out works, including control and supervision of the workers in routine and comprehensive installation, maintenance and emergency services; and
- (iii) be provide with a mobile telephone at the Contractor's expense to allow immediate contact on as and when necessary basis, by the CIC.

(c) Technical / Safety Staff/ Competent Workers

The Contractor shall provide a sufficient number of qualified technical staff, competent workers and safety personnel to ensure the Works be satisfactorily carried out safety and meeting the performance targets and programmes.

(d) Senior Interior Designer

The Contractor shall provide at least one directly employed Senior Interior Designer for all aspects of the development of the detailed design based on the preliminary design under close direct supervision of the Contractor's Project Manager. The Senior Interior Designer shall:

- (i) have a minimum of 10 years' interior fitting-out design experience with qualification of higher education in interior design;
- (ii) be capable of generating innovative ideas of developing interior design drawings of high quality;
- (iii) be familiar with different applications of interior fitting out materials;
- (iv) be capable of using AutoCAD to produce detailed design drawings, fixing details, workshop drawings etc. as well as 3D computer rendering sketches to the satisfaction of the CIC;
- (v) have good communication and presentation skills to convey design ideas for the CIC consideration.

(e) Interior Designer

The Contractor shall provide at least one directly employed Interior Designer to assist the Senior Designer in developing the detailed design based on the preliminary design. The Interior Designer shall:

- (i) have a minimum of 5 years' interior fitting-out design experience with qualification of higher education in interior design;
- (ii) be capable of generating innovative ideas of developing interior design drawings of high quality;
- (iii) be capable of acting as draftsman by using AutoCAD to produce detailed design drawings, fixing details, workshop drawings etc. as well as 3D computer rendering sketches for presentation to the satisfaction of the CIC;

(f) **Building Services Engineer(s)**

The Contractor shall provide at least one Building Services Engineer for all aspects of the development of the detailed building services / MEP design based on the preliminary design under close direct supervision of the Contractor's Project Manager. The Building Services Engineer(s) shall:

- (i) have a minimum of 10 years' building services / MEP design experience with qualification of higher education in Electrical / Mechanical / Building Services / MEP disciplines;
- (ii) be familiar with all building service / MEP statutory requirements;
- (iii) be capable of using AutoCAD to produce detailed building service design drawings, fixing details, workshop drawings etc. to the satisfaction of the CIC;
- (iv) have good communication and presentation skills to convey design ideas for the CIC consideration.

- 8.3 The Contractor's team as a whole, and each individual (except administrative support staff) within the team shall have the experience of conducting projects of similar nature and scope of those required in this project.
- 8.4 The Contractor shall provide the CIC with full details of staff to be employed on the Assignment together with their curriculum vitae and proof of qualifications for prior approval from the CIC. Separate approval from the CIC should be obtained for any subsequent changes of staff.
- 8.5 The Contractor shall provide all specialist and sub-contractor services required for the satisfactory completion of the Contract. No additional fees or expenses for the provision of such services rendered locally or overseas shall be payable by the CIC.
- 8.6 The Project Manager shall attend all the meetings as may be called upon by the CIC.
- 8.7 The Contractor shall provide staff and manpower input in accordance with the technical proposal made at the tender stage, and that the CIC shall have the right to check the time-log record of the Contractor's staff deployed for the Contract.
- 8.8 In the event of any deviation or change of team members with respect to the submitted tender, prior approval from the CIC must be sought.
- 8.9 In the event, for reasons beyond his control, the Contractor is unlikely to provide or maintain any key staff as specified in the proposal, he should report to the CIC as soon as practicable and propose for the CIC's approval of a substitute staff having qualification and experience comparable with the staff who is leaving the Contractor team.
- 8.10 The Contractor shall be responsible for preparing the meeting minutes and submitting them to the CIC within 1 week after the meeting.

9. General Specifications

GENERAL SPECIFICATIONS

9.1 General

- 9.1.1 The scope of work should include alteration, modification and demolition of the existing utilities and fitting out works for the Trade Skill Service Centre of Model Trade Test Centre for the CIC's Aberdeen Trade Testing and Training Centre ("The Site"). The Works shall be completed within 150 calendar days upon award of contract including materials order and delivery on site.
- 9.1.2 The Contractor shall maintain insurance for the Employees' Compensation and such policy shall include endorsements W338, W348 and W204. Contractor's All Risks and Third Party Insurance for the Works will be provided by CIC.
- 9.1.3 Protective plastic sheets <u>MUST</u> be provided at the Contractor's own cost to fully cover the roof / podium / balcony in order to avoid water damage when the Works are carried out at the Site.
- 9.1.4 The information provided in the tender documents only indicates the design intent and minimum performance requirements. The quantities, capacities and sizing contained should not be assumed to be the exact extent of the works. The Contractor should be responsible for the full design and developing a complete system fit for the intended purpose and in accordance with the design intent.
- 9.1.5 The design, selection of materials, accessories, fitting out and installation works the Trade Skill Service Centre of Model Trade Test Centre for the CIC, shall duly consider aspects of safety, reliability, serviceability, maintainability, flexibility, environmental, operation simplicity, energy efficiency and expandability.
- 9.1.6 Relevant standards, codes, guidelines, regulations and other documents issued by international / local statutory authorities shall be followed.
- 9.1.7 The Works shall include, but not limited to, the following:
 - a) Submission of the proposed materials, sample boards, detail sketches etc. to the Employer for comment and approval before commencement of the Works.
 - b) Relevant submissions to Building Department of the HKSAR for the Works in compliance with the statutory requirements.
 - c) Resume of any other trade works / fire sealant / insulation etc. before / after the Works.
 - d) Liaise with any contractor(s) employed by the Employer to achieve timely completion of Works if required.

- e) The Contractor shall liaise closely with the Employer and its representative(s) for detail planning / execution of the Works.
- f) Provide all necessary warning notices, signages, labels, protection and temporary lighting facilities to pedestrian when needed in order to cope with all relevant statutory requirements.
- g) Provide any temporary works, supporting works, steel works, plates, fixing brackets and / or other necessary components in order to complete the whole installation / works.
- h) Submit method statement / testing procedures to the Employer for approval and carry out all necessary testings for the Works according to the latest version of procedures approved by the Employer or its representative(s).
- i) Provide THREE (3) sets of as-fitted record documents / drawings / sections / sketches for the alternated and addition system as installed in both hard copy and electronic files stored CD-ROM / DVD-ROM.
- j) Provide quotation for subsequent operation & maintenance work (if applicable) and unit rate for major components that may incur for additional / alternation works with validity for at least one years' time after DLP.
- 9.1.8 All materials and workmanship shall comply with all relevant sections of the latest edition of the following and all current amendments thereto issued, unless otherwise instructed by the Employer:
 - a) B(C)R 90 & FS Code subsection C5 & clause C11.1 Requirements of fire resisting construction
 - b) Codes of Practice for Minimum Fire Service Installations and Equipment and Inspection, Testing and Maintenance of Installations and Equipment issued by Fire Services Department;
 - c) Relevant circular letters issued by Fire Services Department;
 - d) General Specification for Building issued by Architectural Services Department (Version 2007).
 - e) "General Specification for Fire Service Installation in Government Buildings of the HKSAR"
- 9.1.9 All inspection, checking, adjusting, servicing, modifying, testing, maintenance and repairing services for those installations not exempted from such Regulations shall be carried out by competent persons provided by the Contractor in a safe, prompt and workmanlike manner to the satisfaction of the CIC.

- 9.1.10 The Contractor shall closely work with and follow the direction of the CIC regarding all safety and protective matters.
- 9.1.11 For detailed technical specifications, Drawings and Material Schedules, please refer to Annexes of this Assignment Brief.

9.2 <u>Site Visits before Submitting Tender</u>

9.2.1 Before completing and submitting tenders, the tenderers are required to visit the Site to appreciate and familiarize the extent of the Works. Failure to visit the Site prior to tendering will not be entertained as an excuse for deviations once the tender is submitted. The technical details given in the Particular Specifications are for indication of the approximate information only and the tenderer shall have no time and cost claim against the Employer should the actual details vary considerably from the list.

9.3 <u>Safety Requirement</u>

9.3.1 The Contractor shall fully comply with all safety requirements as required by the "Contractor's Safety Requirements". Any cost arises from the compliance of the safety requirements shall be fully borne by the Contractor and shall be deemed to be allowed in the tender.

9.4 Environmental Requirement

9.4.1 The Contractor shall be required to observe all Environmental Protection Department's requirements including the disposal of construction waste materials and generation of construction noise. The Contractor shall be required to submit necessary documents and substantiate to the Employer that all such requirements are fully complied with in every three-month intervals, and whenever upon request by the Employer.

9.5 Working Hours, Rates of Wages, etc.

9.5.1 The Contractor shall comply with any current legislation or regulations regarding working conditions, working hours including house rules set by the Training Centres, or rates of payment to employees and accept the risk of any impending legislation or other conditions which alters any obligations or imposes new obligations.

9.6 <u>Provision of Mobile Telephone</u>

9.6.1 In order to provide prompt service and to eliminate adverse effect to the users / staffs, the Contractor shall submit details of the duty engineers before the commencement of the Contract. The Contractor shall equip the emergency contact list with mobile telephones at the Contractor's expenses, for the efficient and effective operation of the Contract. All mobile phones shall be at 'Standby' mode at any time. The Contractor shall also provide his staff with adequate means of transportation for emergency attendance to the Site upon request.

9.7 Equipment and Appliances Offered

9.7.1 The equipment and appliances offered shall be rated at 380 volts, 3 phase 4-wire/220 volts single phase two wire ± 6 % at 50Hz.

9.8 Provision of Tools, Ladders and Trestles

9.8.1 The Contractor shall provide all tools, helmets, trestles and Personal Protective Equipment (PPE) such as protective goggles etc as required at their own cost for the execution of duties as required by this Contract and associated statutory requirements.

9.9 Inspection, Measurement and Test Equipment

9.9.1 The tenderer shall use calibrated equipment for the Supply of Calibrated Inspection, Measurement and Test Equipment. All equipment and ancillaries shall be checked, calibrated and maintained in good working order and available for use at all times.

9.10 <u>Scaffolding / Working platform</u>

External of Building

9.10.1 Scaffolding platform will be erected by CIC at the exterior of the building. Tenderer should use such scaffolding platform while working at the exterior of the building with the Employer's approval. The Personal Protective Equipment (PPE) must be provided by tenderer.

Internal of Building

- 9.11.2 Scaffolding / working platform must be erected by tenderer at the interior of the building.
- 9.11.3 The scaffolding / platforms should comprise of all necessary items such as the stepping board, keys, etc to form a complete installation to suit safety and Labour Department's requirements. All platforms and scaffolding must be safe, secured and closely monitored/ checked/ reviewed by a competent person / registered safety officer / licensee according to Labour Department's requirements and / or statutory requirements. The tenderer is required to make good of all building penetration caused by the erection and / or demolition of the scaffolding / platform at their own cost.
- 9.11.4 Where the Works can be safely carried out with the use of ladders or trestles as directed by guidelines issued by Labour Department at whatever height, the Contractor has to provide these facilities at no extra cost.

9.12 Removal of Contractor's Debris

9.12.1 Upon completion of the project works / rectification work during DLP, the Contractor shall remove, to an appropriate disposal point, all old parts or debris arising out of the Works periodically at the Contractor's own expenses. The Contractor shall keep the equipment and its surrounding area clean and tidy to the satisfaction of the Employer.

9.13 Spare Parts

9.13.1 The tenderer shall include in his tender all required spare parts and the tenderer shall also offer warranty that all the spare parts can be available on the market for THREE (3) consecutive years after the expiry of the Defect Liability Period (DLP).

9.14 Advice of Orders Placed

9.14.1 The tenderer is required to forward copies of all orders placed for major items and equipment which are necessary to be imported from overseas to Employer for reference within two weeks after approval of the corresponding equipment by the Employer. Copies of all orders placed shall be forwarded to the Employer for information & record.

9.15 Addition and Deletion of Installation

- 9.15.1 The Employer shall have the right during the Contract period to instruct additional installation works into this Contract and the Contractor shall execute such additional works in accordance with the Conditions of this Contract.
- 9.15.2 The Employer shall have the right during the Contract period to instruct for omission of installation works from the Contract.

9.15.3 Within seven days of written notification by the Employer of any addition or deletion of the installation works, the Contractor shall review his staffing level to ensure the proper execution of the Works and if necessary seek approval from the Employer for any change to the staffing level required.

9.16 Contractor's Labour Force and Workshop Facilities

- 9.16.1 The Contractor shall directly employ sufficient, suitably skilled and experienced workmen for carrying out the Works as described in this Specification. The Contractor shall ensure adequate staff is provided in carrying out the periodic inspections. The staff organization chart shall be submitted at the commencement of the Contract for the Employer's approval.
- 9.16.2 All workmen shall wear clean uniform or the Contractor's badge and carry the Company identity card bearing the employee's photograph whilst on duty.
- 9.16.3 The Contractor shall take measures to ensure that his employees shall not commit any of the following acts at the Site:
 - a) Enter any area other than those necessary for the performance of the Works,
 - b) Cause damage to any property,
 - c) Gambling,
 - d) Commit any criminal offence,
 - e) Consume alcoholic beverage,
 - f) Fight and/or quarrel
 - g) Use foul languages,
 - h) Behave in a manner likely to endanger himself or any other person or cause damage to any property,
 - i) Fail to wear uniform and Company ID card whilst on duty.
- 9.16.4 The Contractor shall provide the staff organization chart and contact list which shall be regularly updated for re-submission as and when necessary due to subsequent change of details previously.

9.17 Security

- 9.17.1 The Contractor shall ensure that the Works included in this Contract are properly and adequately executed in good working order, safe operating condition and for its efficient performance. Before leaving the Site and upon completion of execution of work each time, the Contractor shall be responsible for keeping all tools, materials in safe custody, and relevant access doors and panels locked.
- 9.18 Clearance of Debris and Unwanted Materials, etc.
- 9.18.1 The Contractor shall be responsible for keeping each installation on Site in a clean, tidy and orderly condition to the satisfaction of the Employer or its representative(s) at no extra cost.

9.18.2 In particular, each time after the execution or completion of Works, the Contractor shall clean the floor and carry away from the Site all debris and rubbish. Should the Contractor fail to comply with this requirement, the Employer will instruct cleaning work to be carried out by others and subsequently reimburse the full cost of the work from the Contractor.

9.19 <u>Information to be Submitted to the Employer</u>

- 9.19.1 In addition to the requirements of staff organization, Contractor's facilities, working programme, company's brochures, etc. that stipulated in this specifications and Annexes of the Conditions of Tender, the Contractor shall also submit the followings:
 - a) Method Statement;
 - b) Warranty;
 - c) Support, Maintenance and Spares;
 - d) Proposed System Design Description, Schematics and Drawings;
 - e) Project Implementation Plan and Schedule;
 - f) Project Methodology and Deliverables;
 - g) Technical Expertise;
 - h) Risk Management Expertise;
 - i) Project Experience
 - j) Information on Relevant Projects
 - k) Schedule of Current Projects

9.20 Remedy on Contractor's failure to Perform

- 9.20.1 If the Contractor fails to carry out any work required under the Contract or refuses to comply with any instruction or order given by the Employer in accordance with the Contract within a reasonable time, the Employer may give the Contractor 7 days' notice in writing to carry out such work or comply with such instruction.
- 9.20.2 If the Contractor fails to comply with such notice, the Employer shall be entitled to carry out such work by itself or by his own workmen or by other contractors. Without prejudice to any other remedy, all additional expenditure properly incurred by the Employer in having such work or instruction carried out shall be recoverable by the Employer from the Contractor by deduction from money due to the Contractor under this Contract or under any other contract between the Employer and the Contractor.

9.21 Industrial Training and Pneumoconiosis Levies

9.21.1 The Contractor's attention is drawn to his obligations under the Industrial Training (Construction Industry) Ordinance (Cap. 317) and the Pneumoconiosis (Compensation) Ordinance (Cap. 360) and the Contract Sum shall include the amounts payable in respect of these levies with regard to all works included in this Contract.

9.22 <u>Electricity and water supply</u>

- 9.22.1 The Contractor shall be responsible for the electricity and water supply for the Works. In addition, the Contractor shall also be responsible for all necessary connection and disconnection of temporary water and power supply at its own expense. Before commencing these temporary connection works, the Contractor should notify in advance to the Employer and seek his approval. Upon the completion of the Works, the Contractor shall be required to reinstate the original facilities to the satisfaction of the Employer at his own costs.
- 9.22.2 Checking of meter and/or tariff meter is required to record the consumption of electricity and water if necessary.
- 9.22.3 The whole temporary installation is to comply with the relevant regulations and statutory requirements approved by the government authorities.

Annexes

of

Assignment Brief

of

Design, Project Management and Fitting Out Works for Trade Test Service Centre

of Model Trade Test Centre

for

the Construction Industry Council

October 2017

© 2017 Construction Industry Council

The contents of this document remain the property of the CIC, and may not be reproduced in whole or in part without the expressed permission of the CIC

ANNEX	<u>CONTENTS</u>
1.00	DEFINITIONS
2.00	TECHNICAL SPECIFICATIONS
3.00	SPECIFICATIONS SCHEDULES
4.00	TENDER DRAWING

ANNEX 1.0 DEFINITIONS

1.1 **EMPLOYER:** Construction Industry Council (CIC)

1.2 **SITE:** Level 5 Aberdeen Trade Testing and Training Centre of the Construction Industry

Council

1.3 **CONTRACTOR**: A firm or corporation to whom this Contract is awarded.

1.4 **SPECIALIST CONTRACTOR**: A firm or corporation having a Contract/Sub-contract with

the Contractor for the execution of the specialist works. The Contractor will be responsible for the

attendance and coordination for the specialist contractor(s).

1.5 SUB-CONTRACTOR, NOMINATED SUB-CONTRACTOR: A firm or corporation

having a Contract with the Contractor for the execution of a part or parts of the work included in

the Main Contract.

1.6 **WORK**: "Works" includes the whole of the works, materials, matters and things required to

be done, furnished and performed by the Contractor and its Sub-contractor(s) (if any) under the

Contract. The work and material set out in the Contract includes not only the particular kind of

work and material mentioned but also all labour, plant and material necessary for the full

execution, completion, testing & commission and delivery ready for the use and enjoyment of the

Employer.

1.7 GENDER: In construing this Contract wherever the singular or masculine is used it shall be

read and construed as if the plural, feminine or neuter had been used when the context or the

parties so required and the rest of the sentence, clause or article shall be construed as if all changes

in grammar, gender or terminology thereby rendered necessary have been made.

1.8 **SUPPLY**: Where used, word "supply" shall mean furnishing to site in location required or

directed, complete with accessory parts.

1.9 INSTALL: Where used, word "install" shall mean set in place and secured or affixed to

building structure as noted or directed.

1.10 PROVIDE: Where used, word "provide" shall mean supply and install as each in described

above.

1.11 **TENDER DEPOSIT**: Not required in this tender.

AB-24

ANNEX 2.00 TECHNICAL SPECIFICATIONS

2.01	Preliminaries
2.02	Carpentry and Joinery
2.03	Metalwork
2.04	Plaster
2.05	Glazing
2.06	Vinyl Floor
2.07	Stone, Ceramic Tile
2.08	Paint
2.09	Wall covering
2.10	Suspended False Ceiling Works
2.11	Brickwork and Block work
2.12	Electrical Installation
2.13	Demolition and Associated Works
2.14	Fire Service Installation and Equipment
2.15	Preambles
2.16	Plumbing and Drainage Work
2.17	Heating Ventilation and Air Conditioning Work
2.18	Main Power Cable / Antenna System
2.19	CCTV and Security System
2.20	Audio Visual / Public Address System
2.21	Sanitary Wares and Fittings
2.22	System and Loose Furniture
2.23	Equipment
2.24	Finishes by Specialists
2.25	Miscellaneous Items

Remarks:

The Contractor shall aware that the above Contents are specification standard. The Contractor shall apply these specifications where applicable.

2.01 PRELIMINARIES

2.01.01 Scope of Contract

This Contract comprises the provision of all necessary materials and labour to carry out the works of Construction Industry Council – Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre, all as detailed on the Drawings, General Specifications, this Specification and other parts of the tender documents.

2.01.02 Site of Works

 Level 5 Aberdeen Trade Testing and Training Centre of the Construction Industry Council

2.01.03 <u>Preliminary Items</u>

- i) The Preliminary Items included hereunder apply to the whole of the works contained in this Specification and the amount inserted by the Contractor in the Summary of Tender shall be deemed to apply to the whole of the Works carried out under this Contract.
- ii) In the event of no amount being inserted by the Contractor in respect of preliminaries, in the Summary of Tender, the value thereof will be deemed to have included in the cost of the work specified hereinafter and no separate amount whatsoever will be certified for payment.

2.01.04 Contractor to Visit the Site

i) Before tendering, the Contractor should visit the site and satisfy himself as to the accessibility of the site and the extent and character of the operations as no claim due to any neglect in this respect will be entertained.

2.01.05 <u>Programming and Completion of the Work</u>

i) The Contractor's particular attention is drawn to the fact that the works to the premises under this Contract must be carried out in co-operation with and agreement of the supervisor of the premises to allow the reasonable operation of the premises and completed within the period stated on the Form of Tender.

2.01.06 Work Included in the Contract

- i) The Contractor's prices for the items contained in the Contract shall be deemed to include the cost of all incidentals of labour, materials, all cutting and waste, packings, cartage, risk, moving, hoisting and fixing in the required position, scaffolding, plant, ladders, platforms, supervision, profit and all things and matters necessary for the carrying out of and for the timely and satisfactory completion of the entire works contained in the Contract and Specifications, such be expressed or not.
- ii) All the materials to be used in permanent works described in this Specification shall be taken as new.

2.01.07 Lump Sum Tender

- i) The tender shall be "Lump Sum subject to re-measurement" for the carrying out of the whole of the Works in conformity with the Specifications and Drawings.
- ii) Tenderers must include an itemized breakdown in their tenders and a detailed and comprehensive Schedule of Works required and included in the tender.
- iii) The Employer will not be liable for any expense incurred by the Contractor in connection with the measurement of variations or the adjustment and settlement of accounts.

2.01.08 General Specifications

i) The Contractor shall be deemed to have examined the following General Specifications including all current Corrigenda applicable to this Contract:

Similar codes or standards used in the home country of the manufacturer may, however, be used if applicable, subject to the acceptance of the appropriate Hong Kong Government Departments or other authorities. In such case it shall be the responsibility of the manufacturer to prove to the satisfaction of the CIC or the Architect/Engineer that such codes are essentially equal to the one specified.

Unless otherwise specified, the complete building services installation shall comply with the latest editions from time to time of the following documents:

- (a) British Standards Specification (BS or B.S.S.)
- (b) The Hong Kong Building (Construction) Regulations, current edition, and fire services requirements
- (c) Building Ordinance (Chapter 123) and Building (Planning) Regulations
- (d) Electricity Ordinance (Chapter 406)
- (e) Water Work Ordinance (Chapter 102)
- (f) Building Energy Efficiency Ordinance (Chapter 610)
- (g) Hong Kong Waterworks Standard Requirements for Plumbing Installation in Buildings and all Circular Letters
- (h) The Supply Rules and the Installation Guide of the power supply company of latest edition, issued by The Hong Kong Electric Co. Ltd.
- (i) The latest edition of the Wiring Regulations and the subsequent amendments published by the Institution of Electrical Engineers (IEE), United Kingdom. (BS7671) The IEE Wiring Regulations hereinafter in this Specification being referred to shall mean the latest edition and all subsequent amendments.
- (j) The latest edition of standards from CIBSE and ASHRAE particularly on safety codes
- (k) Regulations of the Telecommunication Authority, Hong Kong
- (l) Codes of Practice for the Electricity (Wiring) Regulations (Latest Edition) published by Electrical & Mechanical Department, Hong Kong Government.
- (m) Code of Practice for Energy Efficiency of Building Services Installation latest edition published by Electrical & Mechanical Department.
- (n) Hong Kong Fire Services Department Code of Practice for Minimum Fire Service Installations and Equipment), latest edition; and F.S.D. Circular Letters.
- (o) Rules for Automatic Sprinkler Installations by the Loss Prevention Council (BS 5306 Part 2) and Technical Bulletins.
- (p) Hong Kong Water Authority Regulations.
- (q) LPC. Rules for Automatic Fire Detection and Alarm Installations for the Protection of Property.
- (r) BS 5839 : Part 1 : 1988 for the Installation of Automatic Fire Detection and Alarm Systems for Buildings.

- (s) National Fire Protection Association (NFPA) Codes & Standards, USA
- (t) Design Manual : Barrier Free Access latest edition issued by the Buildings Department
- (u) The Chartered Institution of Building Services Engineers (CIBSE) Lighting Guides, Latest Edition, and subsequent amendments.
- (v) All other Authorities having jurisdiction.
- Unless otherwise specified, the complete installation shall comply with the specification of latest editions from time to time of the following documents:
- (a) General Specification for Air-Conditioning, Refrigeration, Ventilation and Central Monitoring & Control System Installation in Government Buildings of latest edition and subsequent amendment issued by Architectural Services Department, HKSAR
- (b) General Specification for Electrical Installation in Government Buildings of latest edition and subsequent amendment issued by Architectural Services Department, HKSAR
- (c) General Specification for Fire Services Installation in Government Buildings of latest edition and subsequent amendment issued by Architectural Services Department, HKSAR
- (d) General Specification for Plumbing and Drainage Installation in Government Buildings of latest edition and subsequent amendment issued by Architectural Services Department, HKSAR

SPECIALIST CONTRACTORS

a) LICENSED PLUMBER

All plumbing works of fire services installation and HVAC installation shall be executed by a Licensed Plumber - Grade 1, registered at Water Authority. Copy of the license of the plumber and the job reference of the plumber shall be submitted with the tender for consideration.

Water sample shall be collected and tested by Recognized Laboratory in HKSAR and submit report showing compliance with Water Authority requirements upon work completion.

b) REGISTERED ELECTRICAL CONTRACTOR/WORKERS

All electrical works shall be executed by registered electrical contractor and workers from EMSD of appropriate grade. Copy of the certificate of registered electrical contractor and worker and their job reference shall be submitted with the tender for consideration.

c) REGISTERED FIRE SERVICES CONTRACTOR

The whole fire services installation shall be executed by registered fire contractor of appropriate grade. Copy of the registered certificate and job reference shall be submitted for consideration. The fire services contractor shall within the approved list of FS contractor from Housing Department.

d) REGISTERED SECURITY CONTRACTOR

All security systems of this project shall be executed by registered security contractor. Copy of the registered certificate and job reference shall be submitted for consideration.

e) FIRE SERVICES MAINTENANCE CONTRACTOR

The fire services installation interfacing work, drain-off and refilling of wet system, isolation of AFA system, etc. that related to the building communal system shall be executed by Fire Services Maintenance Contractor. The Contractor shall appoint the Fire Services Maintenance Contractor to execute the prescribed works.

f) REGISTERED VENTILATION CONTRACTOR

Complete air-conditioning installation and mechanical ventilation installation shall be executed by registered ventilation contractor.

Copy of the registered certificate and job reference shall be submitted for consideration.

g) REGISTERED MINOR WORK CONTRACTOR

Complete building services installation with works fall within the Minor Works Control by Buildings Department that shall be executed by Registered Minor Work Contractor including appointment of Authorized Person and/or Registered Structural Engineer if necessary.

COORDINATION WITH AUTHORITIES

a) Buildings Department

The Contractor shall attend all inspections by Buildings Department. The Contractor shall provide all information including drawings for application and final submission of premises.

b) Water Authority

The Contractor shall submit all application, drawings, Forms to Water Authority as required for the Work. The Contractor shall also co-ordinate with WA regarding the inspections by Water Authority during the Work, on completion, water mains connection and water meter installation.

The Contractor shall carry out a water sample test to the requirement of Water Authority. The Contractor shall provide all information including drawings for final submission of plumbing drawings.

The Contractor shall arrange to pick up all water meters from Water Authority and to install at positions as shown on the approved drawings.

c) Electricity Supply Company

The Contractor shall submit drawings, forms, etc. to Electricity Supply Company as required for the Work. The Contractor shall attend all inspections by Electricity Supply Company - wiring test, meter installation, etc.

d) Fire Services Department

The Contractor shall submit Form 314 including preparation of associated drawings for submission, submit Form 501 and attend all inspections by Fire Services Department for the issuance of Fire Certificate.

The Contractor shall submit drawings of HVAC installation to Fire Services Department, if required for the Work.

e) Telecommunication Companies

The Contractor shall co-ordinate with all telecommunication companies on the provision of required facilities for telephone equipment and incoming cables. And arrange to handover the facilities to Telecommunication Companies.

f) Electrical and Mechanical Services Department

The Contractor shall attend all inspections by Electrical and Mechanical Services Department as required for the Work.

- ii) Allow for any financial obligations imposed by the Preliminaries of the General Specification.
- iii) The General Specification can be downloaded from Architectural Services Department website below:

http://www.archsd.gov.hk/en/publications-publicity/publications.aspx

2.01.09 Material General

- i) All materials shall be of an approved brand and type fixed and applied strictly, in accordance with the manufacturer's instructions and to the CIC satisfaction. Materials shall be submitted to the CIC for approval whenever required.
- ii) The Contractor shall submit colour and tint cards and all colour schemes shall be approved by the CIC before the work is commenced.
- iii) The Contractor shall also submit a sample board of electrical accessories proposed to be used in the electrical work for the approval of the CIC prior to the commencement of the work.
- iv) The Contractor is deemed to have allowed in his tender all materials required for the completion of the works, including possible shortfall in spare materials already provided in the premises by the Employer. No claims for extra cost to the Contract in this respect will be entertained without reasonable substantiation.

2.01.10 Compliance with Specifications

i) Unless otherwise overridden by this Particular Specification or Drawings, all materials and workmanship shall comply with all the relevant sections of the General Specifications as stated in Clause 2.01.08 above and all the subsequent amendments issued prior to the date of tendering.

2.01.11 Schedule of Material and Equipment

i) The tenderer is required to state the type, model and make of all materials / equipment proposed to be used in this Contract. The tender may be considered invalid without submission of such information from the tenderer.

2.01.12 Drawings and Specifications Generally

i) The drawings and Specifications shall be understood to indicate the form, dimensions, class and description of materials and standard of workmanship to be used but shall not be taken to embody each and every detail or process or refinement of form or construction proper to the standard of product required under this Contract.

2.01.13 Dimensions, etc.

- All disparities, incompatibilities or conflict between dimensions or between dimensions and scale shall be referred by the Contractor to the CIC for clear instruction before proceeding with the relevant work and the CIC's decision and the instruction shall be binding on both parties to the Contract. The Employer will not be responsible for the cost of any unapproved work constructed in error by the Contractor or his staff not having observed this condition.
- ii) Figured dimensions are to be taken in preference to scaled in all cases. Before commencing any work or ordering any materials the Contractor must verify all measurements. If any discrepancies are found they must be brought to the notice of the CIC immediately.

2.01.14 Removal of Rubbish and Debris During the Progress of Fitting out Work

i) All accumulations of rubbish and debris during the progress of fitting out work shall be cleared and carted away daily, notwithstanding that these debris may be left over by nominated supplier and sub-contractors associated with the project, during the progress of the contract to the satisfaction of the CIC.

2.01.15 Existing Defects

i) The Contractor shall draw the Employer's attention to any existing defects found in connection with the works required to be carried out in this contract, and work shall not be commenced until the Employer has issued his instruction.

2.01.16 Workmanship

 Workmanship shall be of the best quality, and shall be carried out by tradesman skilled in their particular trades and following the best of sound trade practice.

2.01.17 <u>Safe Custody of Materials</u>

- i) The Contractor will be responsible for the safe custody of any materials delivered on to the site. The Contractor shall endorse receipt upon delivery to site and provide suitable and adequate space and lock-up rooms for storage as required by other suppliers and specialist contractors. He will be required to reinstate at his own expense any such materials that may be lost or stolen.
- ii) The Contractor will also be required to reinstate at his own expense any material or article damaged by careless handling or storage or interior workmanship by his workmen either in the original fixing or in the subsequent taking down and re-fixing thereof.

2.01.18 <u>Safety Precautions</u>

i) The Contractor shall comply with laws and regulations enacted by local statutory bodies for safety on Work Site.

2.01.19 Defects after Completion

i) The Contractor must make good any defects, shrinkages or other faults which shall appear within the Defects Liability Period in accordance with the Conditions of Tender – Fee Proposal or the Contractor may have the defects made good at his expense by local contractor approved by the CIC.

2.01.20 Lighting, Power and Water for the Work

- i) The Contractor is to provide all temporary lighting and electric power required for the proper execution of the Works including the works of Nominated Sub-contractors and Specialist Contractors and the testing of all installations.
- ii) If current is taken from a public supply, the Contractor is to give notice and pay all charges for connection, distribution and consumption to the undertaking concerned and remove the installation and make good all disturbances on completion of the Works.
- iii) Power supply must be sufficient for the testing and adjusting of lifts and water pumps, and any other large powered electrical machinery.
- iv) The Contractor is to supply water for the works in all trades, including Nominated Sub-contractors and Specialist Contractors. The Contractor shall pay all fees and supply temporary storage tanks, pipe lines and plumber's works.

2.01.21 <u>Samples/Mock Up</u>

- The quality of materials and articles supplied for any purpose are to be submitted for consideration prior to their use in the works. Wherever practicable samples are to be submitted for consideration before bulk supplies are delivered to the site. Samples, and any packing of same, are to be provided free of charge by the Contractor.
- ii) Mock up to be provided free of charge by the Contractor for items listed in these specifications.
- iii) Three (3) samples are to be submitted for the CIC's approval.
- iv) Approved samples are to be kept on site to serve as standards for the materials or goods represented by the samples.

- v) Should any material or article be rejected it shall be removed from the site at the Contractor's expense. The Contractor shall provide samples of workmanship for all trades and obtain the CIC's approvals prior to commencement of each trade.
- vi) Spare materials are to be provided to Employer for future use.

2.01.22 House Rules

- The Contractor shall carry out all Works in accordance with the rules, regulations and conditions as may be stipulated by the building owner and/or property management.
- ii) It is the Contractor's responsibility to be fully aware of the above requirements and allow for any necessary provisions in his tender sum.
- iii) No nuisance work could be carried out during office hours. All noisy / smelly / dusty work shall be carried out in the night time or during weekend.

2.01.23 Night Time Work

- i) Night time work may be carried out at the discretion of the Contractor, on the condition that he shall obtain prior approval from the property management in respect of access and security clearance.
- ii) No claim for extension of time and/or costs shall be considered by the CIC if the Contractor is prevented from carrying out night time work.

2.01.24 <u>Daily Reports, Photographs and Programme</u>

i) The Contractor shall prepare daily reports and photographs in a format to be approved by the CIC and shall submit the reports weekly. The Contractor shall provide photographs of the works as and when directed by the CIC.

- ii) The Contractor shall submit to the CIC for approval a detailed programme showing his intended method, sequence, stages and order of proceeding with the Works together with the period of time he has estimated for each and every such stage of progress. Whilst it is not required to be submitted with the Form of Tender, provision and approval of such a detailed programme will be condition precedent to the acceptance of the Tender.
- iii) If during the course of the Contract special circumstances should arise which in the opinion of the CIC warrant or necessitate a revision or departure from the order of procedure as shown in the approved programme, then the Contractor shall accordingly revise his programme as the CIC may require.
- iv) In order that the programme may be maintained or amended where necessary it is incumbent upon the Contractor to notify the CIC whenever there is the likelihood of a delay occurring in his own work or material supplies or in those of any of his Sub-contractors.
- v) The submission to and approval by the CIC of such programme (and revisions if applicable) shall not relieve the Contractor of any of his duties or responsibilities under the Contract.
- vi) Submit to the CIC at weekly intervals reports on the general progress of the Works and detailing any information required, extension of Contract Period claimed, etc.
- vii) No claims for extension of the Contract Period will be considered if submitted later than seven days after the event. The acceptance or otherwise of such claims will be at the discretion of the CIC.

2.01.25 <u>Protect and Repair Damage to Property, Utilities etc.</u>

- i) The Contractor is to protect in all ways building and other property or things which may be disturbed or damaged during the execution of the Works. The Contractor shall provide hoarding and protection to seal off elevator doors.
- ii) The Contractor shall be entirely responsible for ensuring that no damage is caused by his work crew including sub-contractors (whether nominated or not) and if any such damage is caused he shall be entirely responsible for the entire cost of reinstatements whether carried out by himself or others.

2.01.26 Protection of Public

i) The Contractor is to take every precaution necessary to protect the public from injury or death during the course of the Works.

2.01.27 Visitors

i) The Contractor will not allow any unauthorized visitors on the site and is to keep a visitors book with clear warning that the Employer and the Contractor shall be indemnified against any claim for death or injury to persons authorized to visit the site and provide safety helmets for such visitors.

2.01.28 <u>Completion</u>

- i) On completion of the work and before handing over the Works, the floors, glass, fittings, tiling, ironmongery, paintwork, etc. are to be thoroughly washed and/or cleaned down using proper detergents, scrapers, scrubbing brushes, etc., all windows, drawers, doors and hardware eased and tested exposed metalwork shall be polished as necessary and the premises left clean and fit for occupation.
- ii) All plant, rubbish, crates, containers, surplus materials, etc. are to be removed and the Works and Site adjacent thereto left clean and tidy.
- iii) Labelled keys and guarantees shall be handed to the Employer on or before the Date for Practical Completion.

2.01.29 Fitting-Out

i) The Contractor is requested to be fully aware of the requirements related to the Base Building Finishes and Services. The Contractor shall abide to all requirements contained in Landlord Fit-Out Guidelines and Rules if any.

2.01.30 Setting-Out

i) The Contractor must set out all items with respect to shop demise lines, partitions, and built-in services system furniture etc. shown on plans for the approval of the CIC prior to construction.

- ii) The Contractor shall be responsible for setting out of the work from the working drawings with accuracy. Any errors resulting from inaccurate setting out must be rectified at the Contractor's expense.
- iii) The CIC shall provide all necessary instruments and labour as required by the CIC free of cost to check the setting out work done by the Contractor. Notwithstanding such checking, it shall not in any way to relieve the Contractor of his responsibility for the correctness thereof.

2.01.31 Approval of Chief Inspectorate of Fire Services

All interior works, where applicable must comply with the flame spread classification and fire resistant requirements laid down hereinafter by the Director of Fire Services. The Contractor shall produce certificates from the Director of Fire Services and manufacturer's tests certificates to substantiate compliance with the said stipulations of materials to be supplied and installed. If the approval of the Director of Fire Services of any materials installed is not substantiated, it shall be removed from the site at the Contractor's own expenses.

2.01.32 Sign Board

- i) The Contractor is to provide a sign board at an approved location at the Site according to Detail Drawing.
- ii) All lettering and writing shall be carried out by an approved sign writer to be employed by the Contractor. Sketch/draft of all lettering and writing shall be submitted to the CIC for approval prior to execution.

2.01.33 <u>Organization Chart and Foreman</u>

- i) The Contractor shall submit an Organization Chart with details of the proposed project personnel and their qualification for the CIC's approval.
- ii) The Contractor shall keep a competent general foreman, literate in English, constantly on the site.

2.01.34 Making Good Damages

i) The Contractor shall reinstate damages along the access route and in areas outside the works areas caused during the course of the work to the satisfaction of the CIC.

2.01.35 Working Hours, Rates of Wages etc.

i) The Contractor shall comply with any current legislation or regulations regarding working conditions, working hours, or rates of payment to employees and accept the risk of any impending legislation or other condition which alters any obligations or imposes new obligations. He shall also conform to the Construction Workers Registration Ordinance.

2.01.36 Plant Tools, Scaffolding, etc.

i) The Contractor shall provide and maintain in good working order all mechanical equipment, plant, tools, implements, ladders, tarpaulins and the like necessary for the proper and timely execution and protection of the work.

2.01.37 Statutory Obligations, Notices, Fees and Charges

- The Contractor shall comply with and give all notices required by any Act or Ordinance (including the Construction Workers Registration Ordinance) of Government any instrument, rule or order made under any Act or Ordinance of Government, or any regulation or by-law of any local authority or of any statutory undertaker which has any jurisdiction with regard to the Works or with whose systems the same are or will be connected.
- ii) The Contractor shall bear the cost of any fees or charges (including any rates or taxes) legally demandable under any Act or Ordinance of Government, any instrument, rule or order made under any Act or Ordinance of Government, or any regulation by law of any local authority or of any statutory undertaker in respect of the works.
- iii) The Contractor shall comply with the Labour Department's regulations for safety on work sites.

iv) The Contractor shall be responsible for the liaison and subsequent approval from utility companies, Water Authority and other relevant Government Authorities in order to acquire sufficient electricity and water supply for future consumption of the premises.

2.01.38 Shop Drawings

- i) Shop drawings, as may be required, shall be furnished by the Contractor well before the work proceeds and in any case within two weeks of the CIC's request. The CIC may reject, approve or amend such shop drawings. No claim will be accepted for disapproval or amendments required by the CIC.
- ii) The approval by CIC of any such drawings shall not relieve the Contractor of his duties and responsibilities under this Contract.

2.01.39 <u>Record Drawings</u>

i) The Contractor shall within one month from the date of practical completion provide a set of "as-built" record drawings for the whole project to CIC for checking and three sets of approved "as-built" record drawings in hard copy and one set in soft copy shall be submitted subsequently for record.

2.01.40 Labour

- i) The Contractor shall provide and employ on the site in connection with the execution and maintenance of the work:
 - a) Only such technical assistants as are skilled and experienced in their respective callings and such sub-agents, foremen and leading hands as are competent to give proper supervision to the work they are required to supervise; and
 - b) Such skilled, semi-skill and unskilled labour as is necessary for the proper and timely execution and maintenance of the work.

ii) The CIC shall be as liberty to object to and require the Contractor to remove forthwith from the Work any person employed by the Contractor who in the opinion of the CIC misconducts himself or is incompetent or negligent in the proper performance of his duties or whose employment is otherwise considered by the CIC to be undesirable and such person shall not be again employed upon the Work without the written permission of the CIC.

2.01.41 <u>Sub-letting</u>

i) The Contractor shall not assign the Contract. The Contractor shall not sub-let any part of the works without the written consent of the CIC.

2.01.42 Protection of Materials etc.

i) The works and materials shall be kept safe from fire hazard and the Contractor shall take all possible precautions and provide all necessary fire fighting equipment and properly trained staff. The Contractor shall protect all works and materials from inclement weather.

2.01.43 <u>Testing of Materials</u>

i) The Contractor shall carry out tests on all materials required by the CIC to be tested at the Contractor's own expense and shall pay all charges in connection with tests ordered by the CIC to be carried out by others.

2.01.44 <u>Contractor to Give Notice of Injury</u>

i) In the event of any workman or other person employed on the Works or in connection with the Contract suffering any personal injury and whether there be a claim for compensation or not, the Contractor shall without delay give notice in writing of such personal injury to the CIC.

2.01.45 Workmen Living on Site

i) No workmen will be allowed to live on the site.

2.01.46 Prevention of Mosquito Breeding

i) All items on the site, including construction plant, capable of retaining water shall be so stored, covered or treated as to prevent water collection in them. The Contractor shall, at his own expense, treat any standing water on the site with an approved oil and take other necessary measures to prevent mosquito breeding on the site.

2.01.47 Site Clearance

- i) The Contractor shall remove all his equipment and belongings on site before completion/sectional completion of the works at the site.
- ii) Any damages to lawns, property, etc. shall be made good by the Contractor at his own expense, including fences, gates, etc., which have to be removed temporarily for access.

2.01.48 Accept Site as Found

- i) The Contractor shall accept the site found on the Date for Possession and at his own expense clear the site of any debris which may have been left on the site.
- ii) Possession of the site is given to the Contractor subject to statutory inspections to be carried out by relevant authorities. The Contractor shall allow access by the authorities and by the Contractor of the authority to carry out the inspections and any subsequent remedial works. Any necessary co-ordination and attendance by the Contractor is deemed to have been allowed in the Contract.

2.01.49 Compensation for Delay

The Contractor shall be fully responsible for any suspension of work ordered by the Authorities due to excavations, disturbances, nuisance, excessive smoke of machinery etc., during the execution of work and no claim for any extra expense, overhead charges and time loss arising from the suspension of work will be allowed.

2.01.50 Restrict Nuisance of Dust and Noise

i) The Contractor shall take all necessary steps to restrict the nuisance of dust and noise, and comply with the requirements of the relevant Government departments. Pneumatic drills shall be fitted with silencers. Compressors shall be in good order to run as quietly as possible and shall be placed in position as far as possible from adjoining premises. The Contractor shall take care to abate the nuisance caused by dust and shall sprinkle dusty areas with water frequently.

2.01.51 General Compliance to Buildings Ordinance

i) The Contractor shall discharge all the duties as required by the Buildings Ordinance (Cap. 123) as performed as the Registered General Building Contractor (RGBC) and the Registered Specialist Contractors, where applicable, to complete the Works. All statutory charges, fees and any other related costs and wages, salaries of any personnel required for the appliance of the Ordinance shall be borne by the Contractor.

2.02 <u>CARPENTRY AND JOINERY</u>

2.02.01 Carpentry and Joinery Generally

i) The rates for carpentry and joinery work are to include for all cutting and waste, notching, holes, housing ends, miters, ends and shaped ends, angles, junctions, heading joints, short lengths, etc. for all nails, spikes, pins or brads, for coating the backs of frames, backing fillets, etc., with two coats of approved wood preservative, and for all necessary templates or moulds for circular work states "plugged to walls, etc." the prices are to include for plugging and fixing with nails, spikes, etc. to brickwork, blockwork or concrete work, and any hacking off and clearing away existing plaster as necessary. The rates shall also include for the provision of all samples and shop drawings.

- ii) Joinery is to be prepared immediately after the placing of the Contract, framed up, bonded and wedged up. Any portions that wrap or develop shakes or other defects are to be replaced before wedging up. The whole of the work is to be framed and finished in a proper and workmanlike manner, in accordance with the detailed drawings, wrote where required and fitted with all necessary metal ties, straps, bolts, screws, glue, etc. Running bonded joints are to be cross-tongued with teak tongues and where over 12mm thick, double cross-tongued.
- stated for maintenance in the Contract, and the cause thereof be deemed by the CIC to be due to unseasoned timber or faulty or bad workmanship, such defective joinery shall be taken down, refitted, redecorated and/or replaced if necessary and any work disturbed shall be made good at the Contractor's expense.
- iv) Exposed joinery shall have a high degree of finish and shall be of the best quality throughout.
- v) Joinery shall comply with the detail drawings. Prepare joinery for stained or tinted finishes. Conceal all fastenings where possible. Use the minimum of surface railing. Punch rail heads below surface and fill with putty coloured to match finish. Adhesive and jointing compounds shall be non staining and kept off visible surfaces. Surface screws where necessary shall, if visible, be Philips Heads, countersunk flush.
- vi) The Contractor shall provide all fixings, fastenings, anchors, plugs and the like of approved type to transmit the loads and stresses imposed and ensure the rigidity of the assembly.
- vii) Carcass work, shelving and framework to built-in and freestanding units shall be generally constructed of plywood or Medium Density Fibreboard (MDF) as described and specified, properly housed, grooved, tongued, glued, blocked and screwed together a per manufacturers guidelines, and entirely to the satisfaction of the CIC.
- viii) All exposed surfaces of joinery to be properly finished. All laminated surfaces to be finished on both sides of MDF or plywood regardless of drawing.

2.02.02 Protection of Finished Work

The Contractor shall be responsible for providing and maintaining any boxing or other temporary coverings required for the protection of dressed or finished work that might be damaged during the progress of the work if left unprotected. He is to clean out all shavings, cut ends and other waste from all parts of the Works before coverings or infillings are constructed.

2.02.03 Timber

- i) Timber generally shall be the best of its kind and of the species indicated on drawings and on the Material Schedule. It is to be thoroughly seasoned and kiln dried, with moisture content not less than 12% and not more than 20%. It is to be free from worm holes, large loose or dead knots or other defects, sawn die square and without warping, splitting or other defects. Where exposed it is to be matched for colour and graining.
- ii) Timber is to be cut to the required sizes and lengths as soon as practicable after the works are begun and stored under cover, so that the air will circulate freely around it.
- iii) Unless otherwise stated all timber is to be wrote all round and all sizes shown on drawings or specified are finishes sizes.

2.02.04 Medium Density Fiberboard

- i) Fabrication, Lamination and Finish of MDF to conform to National Particleboard Association technical guide "MDF From Start to Finish".
- ii) MDF to have the following properties (minimum) for 9, 12, 16, 18mm thickness.

	" <u>Lightboard</u> "	Standard Density
Density	600 kg/m^3	725 kg/m^3
Internal bond	700 KPa	850 KPa
Modulus of rupture	36.0 MPa	36.0 MPa
Modulus of elasticity	2600 MPa	3000 MPa
Thickness Tolerance	<u>+</u> 0.15 mm	<u>+</u> 0.15 mm
1 hour thickness swell:		
- 18mm	1.5%	1.5%
- 12mm	2.6%	2.6%
1 hour water absorption:		
- 18mm	2.5%	1.5%
- 12mm	3.5%	2.4%
Moisture Content	7.5%	8.0%

iii) Screw Holding

Screw type: Parallel thread. Screws such as the Twinfast or particle board screws. Wood screws not to be used.

Maximum screw gauge is:

12mm board thickness - 6 16mm board thickness - 7 18mm board thickness - 8

Pilot Hole recommended to avoid splitting during edge screw fixing, drilled approximately 2.3mm beyond the expected depth of insertions of the screws.

Screw position should be decided in relation to board thickness and screw size and not less than 25mm from corners.

Screw must not be over-tightened as further turning reduces the holding strength.

iv) Nails and Stapling

Add adhesive to joint prior to assembly. Nails to be either annular, groove or helical of 13 to 14 gauge.

v) Sanding and Finishing

Use 120 grit paper followed by 240 or 320 grit paper.

vi) Painting

Prior to priming for paint finishes all nail holes to be stopped with solvent based wood dough and lightly sanded. Solvent or turps based systems recommended.

vii) Formaldehyde Emissions

- a) MDF board manufactured to comply with industry's voluntary emission standard of 0.3ppm at a loading of 0.08 ft² of product surface per cube foot of room space.
- b) Sealing finish required to all exposed areas including edges, backs and underside of drawers, etc. Acceptable wet coatings are: oil wood primer and enamel top coat, latex-ammonia coatings plus two coats of latex water base wall paint.

viii) Storage/Fabrication

MDF to be fabricated and stored according to manufacturer's instructions. MDF must be stored and fabricated in controlled environment.

2.02.05 Plywood

i) Plywood shall be best quality close grained plywood suitable for veneering, painting or bonding plastic laminate. It is to be a resin bonded weatherproof brand, exposed edges will be finished with an edge strip of solid wood, tongued and grooved and glued, or as detailed.

2.02.06 Joints

- i) Joints shall be as indicated on detail drawings. The contact surfaces of dowels, tenons, wedges, etc. shall be glued with a best quality cold setting, synthetic resin adhesive of moisture resistant, gap filling type or with best quality cold-setting case in glue. Where glued joinery is likely to come into contact with moisture the glue shall be waterproof. Animal glues are not to be used.
- Nails, spikes, bolts, etc. shall be of the best quality mild steel or wrought iron except in those places where brass headed nails are indicated on drawings.
 All screws are to be brass unless otherwise stated. Refer to item 6.02.04 for MDF board.

2.02.07 <u>Templates</u>

i) Templates, boxes and moulds shall be accurately set out and rigidly constructed so as to remain accurate during the time they are in use.

2.02.08 Grounds

i) Grounds are to be clean sawn, free from large knots, splayed as required, plugged and fixed to walls, etc. at 450mm centres.

2.02.09 Plugs

i) Where joiners work is to be plugged to walls, etc. Raw plugs, Philip plugs or plugs of similar and approved pattern shall be used. The use of wooden plugs will not be permitted.

2.02.10 <u>Preservative</u>

i) All unexposed surfaces of timber, e.g. false ceilings, backing fillets, backs of door frames, cupboard framing, grounds, etc., are to be treated with two coats of an approved timber preservative or vacuum pressure impregnated with an approved water soluble timber preservative before fixing or bedding.

2.02.11 <u>Door and Fixed Glazing Frames</u>

i) Frames to doors fixed glazing etc. shall be of approved hardwood timber of MDF board as specified and will be constructed in full accordance with the detail drawings, to the required sizes and with all necessary mouldings and other labours, morticed and tenoned and put together in the method indicated using the materials and finishes specified.

2.02.12 Doors

i) Refer to door schedule and drawings for size type, thickness and hardware (ironmongery).

Unless otherwise shown on the contract drawings the door shall be constructed as follows:

ii) <u>Hollow Core Doors</u>

Hollow core doors are to be of 19mm plywood covered with paint grade, timber veneer or 1.6mm plastic laminate as required.

The doors are to be lipped on all edges with a 9mm timber twice splay rebated ending mitered at angles. Lippings to meeting stiles of doors are to be 25mm thick rebated or rounded as required.

iii) Solid Core Doors

Solid core doors are to be framed up with 50mm hardwood mitred edge and filled in with a core of 45mm MDF board to receive finish of paint, veneer or laminate.

iv) <u>Fabrication</u>

- a) Fabricate doors in accordance with MDF manufacturers guidelines.
- b) Hardwood edge ships to be one piece and same species as face veneer or birch timber veneer for paint or plastic laminate finish.

- c) Stiles and rails to be of sufficient width to accommodate surface mounted or concealed hardware (min. 100mm stile).
- d) Undercut on rebate bottom rails as required.
- e) Reinforce for locks and other hardware.

v) <u>Finishing</u>

- a) Doors to be pre-finished and delivered to site ready to be hung.
- b) All exposed edges to be sealed prior to delivery to site.

vi) Fitting and Hanging

- a) Hang full height doors on two pair butts, unless otherwise noted, to close fully in all cases.
- b) Provide 1.5mm clearance at head and jambs, 79mm clearance over carpet and 6mm over thresholds.
- c) Hang doors according to manufacturer's instructions where prefabricated frames are used.

vii) Installation of Finish Hardware

- a) Make hardware cuts in timber finishes neat and true, fit and adjust hardware according to manufacturer's printed instructions.
- b) After installation, please wrappings on knobs pulls, etc. (as protection until completion of contract).
- c) Carefully safeguard keys to ensure that unauthorized personnel do not have access to them. On completion of work delver keys to employer with a suitable tag attached to each key indicating the door operated thereby.

2.02.13 Skirtings

- i) Provide and fix MDF or timber skirtings, where shown in the Material Schedule, on hardwood grounds securely plugged to walls, scribed to floors and properly mitered at angles. <u>All</u> skirting to be medium density fiberboard where specified.
- ii) All skirtings are to be accurately scribed to fit the contour of any irregular surface against which they should form a close butt connection.

2.02.14 Fire Protection Treatment

i) All timber ceilings and support materials above ceilings shall have fire retardant treatment. The Contractor shall submit proposed treatment to CIC for approval before works.

2.02.15 <u>Fixing of Timber to Concrete</u>

- i) Fixing of timber to concrete or brickwork shall be by:
 - a) <u>Hardened steel pins</u> direct into concrete or brickwork for fixing small sections such as skirtings and architraves. The head shall be punched home and filled.
 - b) <u>Preformed plugs</u> in formed holes.
 - c) <u>Plastic compounds</u> in formed holes.
 - d) <u>Expanding bolts</u> in formed holes.
 - e) <u>Cartridge operated hand tools</u> but shall not be used within 50mm of any edge.
- ii) Care must be taken to locate any buried pipes, cables, or other services when fixing timber to concrete or brickwork. If any hole hits reinforcement it must be repositioned.

- iii) Fixing of timber to metal shall be by:
 - a) Self tapping screws in thin sheet.
 - b) Bolts in preformed holes (tapped as required).
 - c) Cartridge operated hand tools.

All fixings shall be as instructed by the CIC.

- iv) Boards and linings, other than tongued and grooved, and less than 180mm wide on face, shall be secured with 2 nails at each fixing position or joist. The nails shall be not less than 12mm nor more than 20mm from edges. Boards and linings other than tongued and grooved, and more than 175mm wide on face, shall be secured with 3 nails at each fixing position or joist. The outernails shall be not less than 12mm nor more than 20mm from the edge.
- v) Tongued and grooved boards and linings less than 100mm wide on face shall be secured with one nail at each fixing position or joist. Tongued and grooved boards and linings more than 100mm wide on face shall be secured with 2 nails at each fixing position or joist.
- vi) All nails shall have a length of not less than:
 - a) Plain boards and linings, $2\frac{1}{2}$ x thickness.
 - b) Tongued and grooved boards and linings, 2 x thickness.
- vii) All boards and linings shall be secured with hammer driven nails unless specified to be fixed with screws. When are specified they shall be not less than No. 8 and not shorter than 2 x thickness.
- viii) All finished work shall be smooth, free from abrasion, tool marks, raised grain grade markings or similar defects on exposed surfaces.
- ix) Foam padding, pressed moulded fiberglass and mineral wool shall be to the CIC's approval.
- x) Protect finished and pre-finished surfaces from work of other trades.

2.02.16 Plastic Laminate

- i) Plastic decorative laminated sheeting will be of the brand, catalogue number, colour etc. indicated on the Material Schedule. Unless otherwise shown or specified the laminate sheeting shall be 1.6mm thick on all flat surface and 0.8mm thick sheets shall be used on post formed surfaces as required. Laminates shall be veneered to mounting surface with an approved waterproof and heatproof are based cement, used in strict accordance with the manufacturer's instructions. Rubber based adhesive shall be not be used. Sheeting must not be applied to timber with a moisture content of more than 15% or at a temperature of less 15°C (60°F). The sheeting is to be applied only to close grained plywood or medium density fibreboard to ensure a smooth ripple free surface; it is not to be applied to open grained plywood such as Fir plywood. Underside surface of counter tops and shelves which are faced with plastic laminate shall have corresponding 0.8mm backing sheet applied. Cabinet doors faced with plastic laminate shall have corresponding 0.8mm backing sheet applied. Cabinet doors faced with laminate shall receive the same laminate on the back side and edges. Top sheet shall be placed on and over finished edge unless otherwise noted. Edges not faces with laminate, as at field joints, shall be machined and sealed. Butt joining of laminates shall be minimized by using longest available lengths where required, and all butt joints shall be perfectly flush and sealed.
- ii) No surface sanding of laminated plastics is permissible.
- iii) Unless otherwise specified, all laminated plastics shall have the standard matte finish.
- iv) Samples showing the surface texture and pattern are to be submitted to the CIC for approval before fixing.

2.03 METALWORK

2.03.01 <u>Hardware Generally</u>

i) The hardware throughout shall be of approved manufacture and supply, well made and equal in every respect to the samples to be deposited with the CIC. All the ironmongery shall be provided by the Contractor and shall be of approved manufacture and obtained from nominated suppliers or other approved sources.

All ironmongery shall met with requirements of the following relevant standards unless otherwise stated: BS 1227, BS 5872, BS 4951, BS 5725, BS 4112, BS 1331, BS 2088.

ii) The rates for hardware are to include for supplying necessary screws to match and for the provision of keeps, striking plates, etc. as necessary. The rates for fixing hardware are to include for all fittings, cutting, sinking, forming, morticing, first fixing, removing for decoration, finally re-fixing after execution of the decoration, easing oiling, adjusting, making good and leaving in perfect working order to the satisfaction of the CIC. Screws for fixing ironmongery items shall generally be in accordance with BS 1494 Part 2.

2.03.02 <u>Hardware Finish</u>

- i) Exposed hardware shall have the finish specified on the Hardware Schedule and it shall normally be assumed that all hardware on each item, if not specified otherwise shall have identical or similar non-staining, non-tarnishing finish.
- ii) Screws are to match the finish of the article to be fixed and to be round or flat headed or countersunk as required.
- iii) Chromium plating, where specified, is to be on a base material of copper or brass and is to accord with International and British Standards for chromium plating for normal outdoor conditions.
- iv) Unless otherwise specified aluminium shall have an anodized finish and comply with samples approved by the CIC.

v) All solid brass, brass sheeting or brass plating specified in polished finish shall be further finished with two pack clear polyurethane coating for non-staining, non-tarnish protection from discolouration unless otherwise specified.

2.03.03 Strength

i) All steel, brass, bronze, aluminium and stainless steel articles shall be submitted to a reasonable test for strength if so required by the CIC at the Contractor's expense.

2.03.04 Protection

i) Brass and bronze surfaces are to be protected with a thick grease or other suitable protective material, i.e. clear lacquer coating. This protective coating is to be renewed as necessary and cleaned off at completion of the work.

2.03.05 <u>Completion</u>

- i) Upon practical completion the Contractor shall ensure that the following requirements are carried out:
 - a) Remove all protective covering, clean all items of ironmongery and ensure that they are in proper working condition.
 - b) Each set of keys shall be provided with an approved circular chromium plated brass plate 25mm dia. x 1.5mm thick stabled with the identification of Floor/Unit/Door to which it belongs for handing over to Employer.
 - c) Properly arrange wrenches, spare part and lock spurner wrenches, space parts and any other tools furnished by the manufacturers with the ironmongery for handing over to the Employer.
 - d) Properly arrange in a file all guarantees and certificates etc. of the manufactures furnished with the ironmongery, if any, for handing over to the Employer.

2.03.06 Bolts

i) Provide all bolts, nuts, washers and other metal fittings required in the work where applicable.

2.03.07 <u>Stainless Steel</u>

- i) Stainless steel to conform to BS 1449 Part 4. All stainless steel shall be of polished mirror finish hair-line finish or baked enamel as identified in finishes schedule.
- ii) Gauge of material to be confirmed by the Contractor.

2.03.08 Mild Steel

i) Mild steel to conform to BS 1449 Part 1.

2.03.09 Wrought Iron

i) Wrought iron is to be selected tough metal with an even silky fibrous grain, formed clean and free from flaws and cracks, etc.

2.03.10 Aluminium

i) All aluminium shall either receive a polished bronze or gold colour anodic coating to the CIC's approval and to BS 1470 and BS 1474.

2.03.11 Decorative Metalwork

i) Brass/bronze, polished chrome, stainless steel, for trim, panels, frames, railings, fittings, etc., shall be solid first quality metal in sizes and thickness shown in detailing. All exposed joints will be welded and ground smooth and attachments shall be concealed. Finish shall be bright high mirror polished or hair line appearance and coated with an approved suitable clear sealer.

- ii) Metal angles, retainer clips, support angles, etc. shall be in mild steel. They shall be primed and painted with two coats of semi-gloss enamel with colour to match surface on which metal is fastened.
- iii) Brass trim for all areas shown shall be standard .050 GA. or similar, pre-finished brass plated steel (or other approved equal).
- iv) Fabricate and assemble brasswork with true sharp profiles and minimum of joints. Necessary joints shall be hairline, tight butted. Use concealed fasteners throughout for securing brasswork to subtracts.

2.03.12 <u>Cast Iron</u>

i) Cast iron to be approved gray metal, sound, free from flaws, blow holes, etc. and have a clean smoother surface.

2.03.13 <u>Protection of Metals</u>

- i) All galvanized metal shall be galvanized by hot dip process in accordance with BS 729 Part 1 chromatic passivated (to allow for immediate painting without the use of a mordant solution).
- ii) All non-galvanized ferrous metal shall be coated with one shop coat or priming before delivery to site.
- iii) All aluminium work in contact with dissimilar metals or with materials containing alkalies, e.g. concrete, cement and like mortar shall be painted with two coats bituminous paint on the contact surfaces.
- iv) All decorative metalwork shall be protected with a suitable factory applied covering which shall not be removed without the approval of the CIC.

2.03.14 Workmanship

- The work shall be carried out in accordance with the requirements of the Local Building By-laws and to the satisfaction of the Local Building Authorities empowered to control the quality of the work in the district where the work is situated and the Contractor must acquaint himself of such requirement which may effects his price. The Contractor shall comply with all reasonable instructions and directions given from time to time by the CIC and/or his Representative for the purpose of ensuring that the work shall be carried out in accordance with this specification and completed at the proper time.
- ii) All work shall be in accordance with the best practice and workmanship and materials shall be to the approval of the CIC. Any defective work which does not comply with the Specification or Drawings shall be removed and replaced by the Contractor at his own expense.

2.03.15 Products

i) Hinges and magnetic catch for new cabinets, heavy duty (100 lbs.) roller tracks for drawers to be supplied and install by the Contractor.

2.03.16 Scope of Work

- i) Work under this section includes providing all necessary materials, labour, plant, transportation and services for the completion of work shown on the drawings and include but not limited to the following:
 - a) Sundry metal sections in fixing partitions to underside structural slab.
 - b) Sundry metal sections in framing and architectural detailing.
 - c) Hardware for all doors and furniture. All timber doors to be provided with three numbers hinges.

2.04 PLASTER

2.04.01 Cement

i) Cement shall be ordinary Portland cement complying with BS 12.

2.04.02 Sand

- i) Sand for plastering, etc. shall comply with the requirements of BS 1198 and 1199 and shall be clean, sharp naturally occurring sand or shall consist of crushed rock or gravel. It should be clean, hard, free from adherent coatings and vegetable matter. It shall not contain soft, porous or flaky grains or crushed dust, alkali, loam, clay or any deleterious organic matter.
- ii) Samples shall be submitted and be approved by the CIC before commencement of work. The sand shall be kept clean and be re-washed if necessary.

2.04.03 Water

i) Water to be clean, free from acids, alkalis and other harmful matter.

2.04.04 Plastering

- i) All plastering, unless otherwise described, shall be applied in two coats to walls to a total thickness of 12mm finished with a steel trowel. Plastering to ceilings and soffits shall be similar. All arises shall be slightly rounded.
- ii) All plastering with cement and sand (1:6) mix shall be with plasticiser and shall comply with BS.
- iii) Provide drips where shown on the drawings.
- iv) All brickwork shall be thoroughly cleaned, the joints raked out and well wetted before and kept damp during rendering. Concrete surfaces to be hacked for key before rendering.
- v) The Contractor shall protect all plastering work in accordance with usual trade practices and he shall replace any damage work at his own expense.

- vi) The Contractor shall obtain the CIC's approval of the plastering works prior to removing his workmen and equipment off the site.
- vii) All wall and ceiling plaster shall be properly made good around all pipes, brackets, gratings and similar intrusions.
- viii) Plaster shall be continued into grooves and rebates in door and window frames and finished against metal windows with slightly cover internal angles.

2.05 GLAZING

2.05.01 Glass

- i) All glass is to be of best quality of approved manufacture, and be free from bubbles, smoke wanes, air holes and other defects. It is to accord with the indications given on the Material Schedule.
- ii) Plate or float glass shall be clear, of selected glazing quality. Glass generally to be to BS 952 and glazing to be to CP 152.
- iii) Tempered glass shall have structural integrity and shall not contain any harmful scratches, pinholes, unevenness, sharp angled or filed edge.
- iv) Georgian wired polished glass to be of a brand approved by the CIC.
- v) Putty for glazing in wood sashes shall be an approved tropical putty. For glazing to metal, and approved patent mastic shall be used.
- vi) The glass shall be well bedded and carefully back puttied, sprigged in and fixed with beads. The glass shall be neatly cut to fit the rebates with 3mm clearance all round and the rebates shall be primed before glazing.
- vii) "Plexi-glass" shall be to the CIC's approval.

- viii) Mirrors shall be of glazing quality polished plate, with electrodeposited copper and silver backing, guaranteed for five (5) years, 8mm thick, light bronze, dark bronze or grey tinted or clear, adhered to backing. Type to be as shown on the drawings. Exposed edges and butt joint edges shall be ground smooth and squared. Mirror shall have bevelled edges where indicated as such in the drawings. Bevelled mirror panels shall be individual units applied to backing as recommended by mirror manufacturer and as shown.
- ix) Where mirror within cabinet or interior works is required, it shall be as far as possible, cut off site.
- x) Mirrors shall be fixed with approved glue and wood beading to plywood backing and excess glue to be carefully cleaned off prior to completion.
- xi) On completion, all glass and mirror shall be cleaned both sides and any broken, cracked or defective panes shall be replaced at the Contractor's own expense.
- xii) Etched glass to conform to industry standard and pattern, size and detail to material selection schedule and drawings.

2.05.02 Mirror Glass

i) Mirror glass shall be 6mm float glass of silvering quality backed with a reflective surface layer of chrome silver or other metal, a protective layer of copper, a coat of protective mirror backing paint and a coat of moisture sealer.

2.05.03 Delivery

i) Glazing to be delivered to site in cut sizes, in packages bearing the manufacturer's name and/or trade mark. The type, quality, thickness or weight of the glazing is to be clearly marked on the package.

2.05.04 Cutting of Glass and Mirror

i) In cutting glass, proper allowance shall be made for expansion. Each square of glazing to be as large as possible. Glazing is to comply with requirements of BS Code of Practice 152. All glass edges to be properly machine grind and polished.

2.05.05 On Completion

i) On completion, clean all glazing, replace all cracked, scratched or broken sections and leave in good condition to the satisfaction of the CIC.

2.05.06 Gaskets

i) Gaskets for glazing shall be preformed rubber gaskets to BS 4255 part 1 on approved neoprene gaskets, to be used strictly in accordance with the manufacturer's printed instructions.

2.06 VINYL FLOOR

2.06.01 General

- i) The vinyl floor to be installed is to be in accordance with the details on Tender Drawing set.
- ii) The sub floor is to be completely clean and dry before laying. The vinyl are to be set out from the centre of all rooms and passages so that any cutting required takes place at the extremities. The vinyl are to be glued to the sub floor with an approved glue. All marks of the glue are to be removed from the surface of the vinyl and the vinyl are to be waxed before handover.

2.06.02 Scope of Works

i) Refer to the Drawings for details of required vinyl flooring works.

2.07 <u>STONE, CE</u>RAMIC TILE

2.07.01 General

i) Stone shall be in the colour, types, sizes, finishes, and thickness as shown in

the drawings and specified herein, or an approved equal.

- ii) Unless otherwise shown on drawings or specifications otherwise, Stone shall have a polished finish, on all exposed surfaces; concealed surfaces may be sawn.
- iii) Visual: All examinations, selections and approvals shall be for the purpose of achieving a final appearance of Stone with greatest possible uniformity, and will be based upon the following criteria:
 - a) All Stone shall be of sound stock and uniform texture, and shall be free from holes, seams, shakes, clay pockets, spalls, stains, starts, and other defects which would impair the strength, durability, and appearance of the work, as determined by the CIC.
 - b) Inherent variations characteristic of the Stone and the quarry from which the stone is to be obtained shall be brought to the attention of the CIC at the time the samples are submitted for approval and shall be subject to approval of the CIC. Stone provided at time of installation shall be of same quarry, colour, veining, and other characteristics as that approved by CIC.
 - c) All Stone shall be selected for background colour, veining, marking, and matching, shall run in even shades, and shall be set accordingly.
- iv) All engineering calculations and design shall be based on the mechanical and physical properties of the selected Stone.

2.07.02 Accessory Materials for Stonework

- i) Mortar materials shall be as recommended by the Manufacturer for each stone type, size, and application. Mortar colour shall be as selected by CIC.
- ii) For coloured pointing mortar, furnish matching stone ground down to meet grading requirements for sand.

2.07.03 Stone Support

i) Where required, stone support systems, anchors and accessories shall be manufactured by a company specializing in the design and fabrication of stone approved by the CIC. Provide all fastening devices, support angles, relieving angles, anchors, coping anchors, dowels, cramps, bolts, nuts, shims, expansion shields, flashing, etc., necessary to properly secure Stone to the structure as required.

2.07.04 Fabrication

- i) Stone shall be accurately cut to sizes, profiles and dimensions. There shall be no deviation from jointing.
- ii) Exposed surfaces and edges of Stone units shall be free from cracks, broken corners, chipped arises, scratches or other defects affecting appearance. Patching or filling not permitted.
- iii) Cut Stone units full and true on faces, reveals, beds, joint and top, to the full dimensions required by drawings. all edges shall be straight and true with sharp and true arises. All stone shall fit together accurately.
- iv) Make faces of stone units in same plane flush at joints. All finished surfaces shall be true in line and face.
- v) Sawn surfaces and edges shall be cleaned of all rust stains and iron particles.
- vi) No patching or use of stone with chipped edges or faces shall be permitted.
- vii) Provide holes and sinkages required for anchors, dowels, other devices required to support and/or suspend Stone, and to accommodate other items which connect to or penetrate the Stone.
- viii) Include all cutting, drilling and fitting of stonework required to accommodate the work of other trades. In cutting and fitting carefully cut and grind edges to a neat tight fit. Do cutting in such a manner so as not to impair strength or appearance of stone. Use physical templates for all cutting and drilling; obtain required templates from proper trades.

2.07.05 Inspection

i) The Contractor shall advise requirements relating to his placement of any inserts which are to be used for anchoring and supporting stonework.

2.07.06 Installation

i) Erection Tolerances:

The work shall be designed to accommodate all permitted tolerances and anticipated dead and live load movement, creep, sway and torsion of the structure without any harmful effects.

- ii) Patching or hiding defects in stone will not be permitted.
- iii) Clean stone before setting as recommended by stone Manufacturer. Follow all Manufacturer directions during installation.
- iv) Connections:
 - a) Anti-galvanized Action: Isolate dissimilar metal surfaces to prevent galvanic action.
 - b) Metal-to-metal contract: Separate metal surfaces in such a manner that metal does not move on metal. Materials used for this purpose shall be low friction components, sealants or gaskets.

2.07.07 <u>Setting Stone</u>

- i) Mortar and grout shall be as recommended by stone Manufacturer for size, weight, location, and use of Stone. Colour as selected by CIC.
- ii) Mixing:
 - a) Mix mortar for setting Stone on anchor plates and for spotting back of Stone. Mix approved non-shrinking cement for filling of anchor holes in accordance with Manufacturer's directions.
 - b) Mix mortar in small batches to make a stiff plastic mass; mix until thoroughly homogenous; re-tempering with water is prohibited.

- iii) Set stone in accordance with drawings and final shop drawings for stonework. Provide anchors, supports, fasteners, and other attachments shown, or necessary to secure stonework in place. Shim and adjust accessories as required for proper setting of Stone. Completely fill holes, slots and other sinkages for anchors, dowels, fasteners, and supports with non-shrink grout during setting of Stones.
- iv) Maintain even joints between units, 1mm maximum unless noted otherwise on drawings.
- v) Grout joints full and flush with face of stone. Where metal inset strips are indicated, butt stone flush and tight against strips, with no gaps exceeding 0.8mm.
- vi) Cleaning: After final cleaning of stone, re-point any open joints with grout.

2.07.08 Repair and Cleaning (After Erection)

- i) Remove and replace stone units which are broken, chipped, stained, or otherwise damaged. Where directed, remove and replace units which do not match adjoining stonework. Patching or hiding defects in stonework will not be permitted. Provide new matching units, install as specified and re-seal joints to eliminate evidence of replacement. Re-seal defective and unsatisfactory joints to provide a neat, uniform appearance.
- ii) Clean vertical stonework after completion of work, using clean water and stiff-bristle brushes. Do not use wire brushes, acid type cleaning agents or other cleaning compounds with caustic or harsh fillers.

2.07.09 Protection

- i) After installation and cleaning, protect stonework from damage during subsequent construction activities.
- ii) At completion of construction work, remove all temporary protection from the work of this Section.

iii) Examine all work and repair all damage. Clean soiled or stain surfaces. In the event damage is irreparable or soiled or stained surface cannot be cleaned, then remove and replace such items at no additional cost.

2.08 PAINT

2.08.01 <u>General</u>

- i) No paint shall be used on the work until the CIC has inspected the materials and given instructions for the work to proceed.
- ii) Paints shall be supplied on site in the makers' sealed containers and must be thoroughly mixed or stirred before use and mixed and used strictly in accordance with the manufacturer's instructions.
- iii) Paints shall be of anti-fungus quality and of approved manufacture.
- iv) Knotting shall be of approved manufacture and consist of shellac dissolved in mentholated spirits.
- v) Linseed oil for use on joinery shall be best clear boiled linseed oil well rubbed in.
- vi) The works "three coats of paint" shall mean:

a) Gypsum Board : 1 coat latex primer

2 coats alkyd enamel (eggshell

finish)

b) Woodwork : 1 coat wood primer

(opaque finish) 2 coats alkyd trim enamel (semi

gloss finish)

c) Woodwork : Stain to match sample

(natural finish) 2 coats

d) Surfaces to which wall: 1 coat primer

covering to be applied

e) MDF – brush applied system

Opaque finish : 1 coat primer

1 coat interior primer1 coat "top coat"

Stain Finish of Sealer : Stain to match sample

1 coat polyurethane Satin

2 coat polyurethane Stain or Gloss

f) MDF - spray applied

systems

Opaque finish : 1 coat sealer or Primer

1 coat finish

Clear finish : 1 coat sealer

1 coat finish

Stain finish : As above plus stain or wood stain

before sealer

vii) The respective types of finishes to surfaces to be painted shall be that as stated in the Material Schedule or above.

2.08.02 Primers and Paints

- i) All primers and paints shall be applied all in accordance with the manufacturer's instructions.
- ii) The primer for paint on ferrous metal work shall be red oxide or lead primer, and the primer for paint of non-ferrous metal work shall be zinc chromatic primer.
- iii) Wood sealer shall be of an approved manufacture and applied strictly in accordance with the manufacturer's instructions.
- iv) The emulsion paint shall be of the Polyvinyl Acetate (P.V.A.) type.
- v) Wax polish for wood surface shall be obtained from an approved manufacturer.

- vi) Silicone based water repellents shall conform to BS 3829 Class "A".
- vii) Alkali-resisting primer shall be a solvent based primer obtained from the maker of the undercoat and finishing coat.

2.08.03 Special Floor Coating

i) Floor coating shall be applied to mechanically scarified (existing) granite floor, topped with cement screed with mechanically inserted grid line markings. 3 colours maximum shall be applied to the floor coating per standard module.

ii) a) Job Mock-Up:

- 1. Minimum 1 sample area application of specified coating systems.
- 2. Upon approval by the CIC, mock-up to serve as standard for the work.
- 3. Mock-up to be left in place as part of completed project.
- b) Applicator (certified by manufacturer)

Applicator shall submit in writing that technicians utilized for work in this section have been certified by the manufacturer. Applicator shall include in his certification that specialized equipment as required by the manufacturer will be used for work in this section.

c) Product to conform to specifications and product requirements as indicated in manufacturer's specifications.

iii) Job Conditions:

- a) Apply coating only under the following prevailing conditions:
 - 1. Air and surface temperature not below 50°F.

- 2. Surface shall be dry after at least 8 hours and fully cured after at least 7 days at 30°C.
- b) Protect surfaces not to be coated and/or of different colours.
- c) Surfaces free from dust, dirt, oil, grease and foreign matters.
 Unsound substrates, cracks etc. shall be made good with appropriate filler.
- d) Adequate illumination.
- iv) a) Primer: 1-coat application.
 - b) Top coat: 2-coat application.
- v) a) Examine surfaces to be coated and report any conditions that would adversely affect the appearance or performance of the coating systems and which cannot be put into an acceptable condition by specified surface preparation.
 - b) Do not proceed with surface preparation and application until the surface is acceptable or authorization to proceed is given by the CIC
- vi) a) Prior to all surface preparation and application operations, completely mask, remove, or otherwise adequately protect all other surfaces in contact with coated surfaces but not scheduled to receive special coating.
 - b) Before applying special coating, thoroughly clean all surfaces involved. Schedule all cleaning so that dust and other contaminants from the cleaning process do not fall on wet, newly coated surfaces.
 - c) All surfaces shall be clean, dry and adequately protected from dampness. Surfaces shall be smooth, even and true to place, and free of any foreign material which will adversely affect adhesion or appearance of applied coating.
 - d) Mildew shall be removed and neutralized.

e) Before coating is applied, surfaces shall be tested with moisture testing device. No coating shall be applied when moisture content exceeds 12% except as may be required by the manufacturer of the coating materials used. Test sufficient area in each space and as often as necessary to determine the proper moisture content for application.

2.08.04 <u>Colours</u>

- i) All tints, shades and colours of paints shall be selected by the CIC, and the priming, undercoat and finishing coats shall be obtained from the same manufacturer.
- ii) The tints of undercoats are to approximate those of the finishing colour.
- iii) In order to indicate the number of coats applied, a difference shall be made in the tint of each succeeding coat.

2.08.05 Workmanship

- All surfaces to be painted shall be thoroughly dusted and cleaned won, cracks cut out, holes stopped, steelwork cleaned of rust, etc., in accordance with approved general practice.
- ii) Each coat of paint shall be dry and well rubbed down before the next is applied.
- iii) No paint shall be applied to a damp surface, and no external painting shall be carried out during wet weather.
- iv) On no account shall the Contractor allow his employees to empty washings or painting materials into sanitary fittings or drainage systems and the Contractor must provide a suitable receptacle outside the building to receive such and the receptacle with contents must be removed from the site at completion by the Contractor.

2.08.06 Plastered Surfaces

- i) All dust, dirt, plaster splashes or efflorescence shall be brushed off or removed by wiping first with a dry coarse cloth and then with a damp cloth.
- ii) If efflorescence is present, the surface shall then be left for 48 hours to see if further efflorescence occurs.
- iii) The internal plastered or concrete surfaces shall be treated initially with a coat of anti-alkali primer and subsequently with two coats emulsion paint.
- iv) The external plastered and concrete surfaces shall be treated with one coat of stabilizing solution and two coats of sand based paint.

2.08.07 Fibrous Plasterboard Surfaces (Drywall Surfaces)

- i) Fibrous plasterboard surfaces requiring painting shall be thoroughly cleaned to remove dirt and dust.
- ii) The board shall first be primed before applying filler. A normal plaster board filler shall be applied and rubbed down to give the desired surface.
- iii) Apply three coats of emulsion paint to board surfaces.

2.08.08 Wood or MDF Board Surfaces

- i) Woodwork which is to be painted shall be thoroughly cleaned to remove dirt, grease, etc.
- ii) All cracks, crevices and holes shall be scraped out, primed and made good with hard stopping, faced up and rubbed to an even surface.
- iii) The hard stopping shall be of an approved make or made up of paste, white lead and gold size stiffened with whiting.
- iv) All knots in woodwork shall be treated to prevent bleeding. Large and loose knots shall be cut out and replaced with sound wood or cut back and the surface made good with filler. Smaller knots shall be treated with two thin coats of knotting.

- v) Woodwork surfaces shall be primed with one coat of wood primer well brushed in.
- vi) Unexposed timber framing and backs of wood frames built in contact with masonry shall be painted with two coats wood preservative.
- vii) Woodwork surfaces shall be primed with on coat of wood primer well brushed in.
- viii) Unexposed timber framing and backs of wood frames built in contact with masonry shall be painted with two coats wood preservative.
- ix) All internal surfaces of cabinets, shelves, cases, stations, etc. where visible when doors are opened, shall be sealed or finished with laminate.
- x) "Oil stain clean lacquer", "stain and polish", "lacquer" shall mean two coats of stain and two coats of clear catalytic lacquer for a fine furniture finish and that "paint" shall mean one coat of primer and three coats of emulsion paint.
- xi) Painting to wood veneer shall consist of light oil stain to match coloration of design sample and shall be sealed with multiple coats of clear flat sealer and sanded between coats in the workshop. Final finish shall have 20-40% reflective sheen and shall match design sample.

2.08.09 Ferrous Surface

- i) Surfaces shall be thoroughly cleaned down to remove all dirt, grease etc. and all rust and seals shall be entirely removed by chipping, scraping or wire-brushing and a perfectly clean surface obtained.
- ii) Immediately after preparation, the surface shall be primed with one coat of metallic primer well brushed on, before the subsequent application of two coats of gloss enamel paint.

2.08.10 Non-Ferrous and Galvanized Surfaces

i) Non-ferrous and galvanized exposed surfaces which are to be painted shall be thoroughly cleaned down or degreased by washing with white spirit.

- ii) Surfaces shall then be roughened by lightly rubbing down with steel wool, wire-brush or abrasive paper and cleaned down.
- iii) When required, mordant solution shall be used for the preparatory treatment.
- iv) Immediately after preparation, the surfaces shall be primed with the coat of zinc chromatic primer, well brushed on, before the subsequent application of one undercoat and one finishing coat as directed.

2.08.11 <u>Clear Polishing</u>

 Woodwork requiring to be polished shall be stopped with hard stopping and rubbed down and polished with an approved polish applied in two separate coats.

2.08.12 <u>Samples</u>

i) Samples showing colours of all paints to be used shall be prepared by the Contractor as and when directed by the CIC for his approval and at the Contractor's own expense. Three samples of each paint finish shall be submitted for CIC's approval.

2.09 WALLCOVERING

2.09.01 Installation

Application of wallcovering shall be in strict accordance with the manufacturer's specification, using the types of adhesives recommended by the manufacturer. Adhesive is to be resistant to mildew and vermin.

2.09.02 Preparation

Remove existing wall finishes if required. Remove all free dust, dirt, grease and efflorescence. Fill all nail holes, cracks and imperfections with sparking compound. All surfaces to receive wallcovering shall be thoroughly dry.

2.09.03 Surface

The finished surface shall be smooth and clean, without air bubbles gaps or overlaps, neatly and accurately trimmed at the top, skirting and door frames, etc. All seams shall be tight butt joint as inconspicuous as possible.

2.09.04 Wall, etc.

New and existing walls, columns, partitions, etc., shall be made true, level and plumb. Allow for re-plastering or furring as necessary to obtain an even finish prior to installation of wallcoverings.

2.09.05 Adjacent Finishes

Adjacent finishes shall run behind wall mounted fittings eg. Light switches and power points

2.09.06 Joints

There shall be no joints at internal or external corners.

Nearest joint shall be minimum 125 mm from corners.

2.10 SUSPENDED FALSE CEILING WORKS

2.10.01 General Requirements on Construction and Installation

- i) The Contractor shall provide complete suspension system and related accessories for each and every panel of the suspended ceilings independently. Where in areas the suspension system cannot be suspended directly from the soffits of concrete slabs due to the presence of services pipings or ducting, the Contractor shall provide all necessary straps, hangers and brackets to form independent support for the suspension system.
- ii) All suspension system, unless otherwise stated, shall be fabricated from corrosion resistant material. If they are of such materials react with aluminium they shall be separated from the aluminium by materials that do not react with adversely.

- iii) Fixing of suspension straps or hangers to concrete or brickwork with cartridge fired fasteners shall be carried out by means of an automatic cartridge operated hand tool, used in accordance with the manufacturer's instructions, Alternatively, the fixing may be carried out by morticing and inserting fibrous inserts or other approved fixing materials and using suitable nails or screws.
- iv) Natural anodized finish to exposed aluminium members shall be in accordance with BS 1615:1972. The anodic coating shall have a minimum average thickness of 0.0004" (10 Microns).
- v) All openings in the ceilings to accommodate installation of light fittings, sprinkler heads, air-conditioning grilles, return air slots, speakers, smoke detectors, etc. shall be provided by the Contractor. The Contractor shall allow in his tender for all necessary cutting, framing, suspension system and additional edge trims and hangers in connection with the provision of such openings.
- vi) The ceilings shall be installed to profiles and patterns shown on the reflected ceiling plans and the Contractor shall allow herein all the necessary cuttings, wastages, etc. to obtain the pattern as shown on the reflected ceiling plans.
- vii) Ceiling boards should installed after all wet work are completed and dried, and after all mechanical and electrical work in the plenum space are installed.
- viii) The edges of all the ceilings shall be properly cut to fit neatly against the curved walls, beams or any other structural members and the Contractor shall provide for all the necessary edge trimming angles bent to fit the profile.
- ix) All ceiling components shall be aligned true with level surfaces and straight lines. Deflection of any component must not exceed 1/360 of the span between supports.
- x) On completion of installation, no dirt, spots or marks shall appear on the exposed surfaces.
- xi) All damaged or improperly installed units shall be removed and replaced at the Contractor's own expenses.

2.10.02 Nominated Contractor's Design Recommendation and Other Information

- i) For the complete assessment of the Contractor's design solutions, the Contractor must submit together with his tender the following:
 - a) The Contractor's Design Recommendation and Calculations.
 - b) Preliminary Shop Drawings showing salient details, in particular, suspension details of all types of suspended ceilings.
 - c) Brochures and descriptive literatures of the materials and goods offered.
 - d) Sample of ceiling panels, aluminium suspension tees, etc. and certificates from the Director of Fire Services.
- ii) These documents after its approval by the CIC shall form part of this Contract.

2.10.03 Approval of Director of Fire Services

- All suspension systems and ceiling boards must comply with the flame spread classification and fire resistant requirements laid down hereinafter to the satisfaction of the CIC and the Director of Fire Services. The specialist Contractor shall produce certificates from the Director of Fire Services and manufacturer's tests certificates to substantiate compliance with the said stipulations of the ceilings to be supplied and installed. If the approval of the Director of Fire Services of any ceiling installed is not substantiated to the satisfaction of the CIC, it shall be removed from the site at the Contractor's own expenses.
- ii) The Contractor shall be deemed to have included in his rates for everything, whether specified herein or otherwise, to comply with the above.

2.10.04 Equal to "Metal Wall" Concealed Frame Type Ceiling System - Profiled Ceiling

- Vaulted aluminium ceiling with polyester powder coated finish; full access concealed fixed to and including galvanized mild steel suspension system and complete with all necessary edge trimming.
- ii) Ceiling panels equal to "Metal Wall" DC-1120A 1050 x 2077 x 3.0mm thick aluminium perforated panels with min. 45% open area pattern 4.0 dia. x 5.0 pitch.
- iii) Colour shall be metallic silver equal to "Metal Wall" code 46-7001, thickness 60-85 microns, 50% gloss.
- iv) Suspension system shall be G.M.S. L-angle tailor made 1.5mm hot dip galvanized mild steel, Z-bracket 2.0mm galvanized iron, thread rod 3/8" BSW nut, gasket Tesamoll 4710 PV3 PE closed cell foam.
- v) Each hanger, 3/8" galvanized iron thread rod is suspended from a 3/8" galvanized anchor bolt or Z-bracket. The thread rods are connected to G.M.S. angle to achieve the required level. Each GMS angle then checked for level by laser prior to fixing the tiles. The vaulted shape rectangular tiles, with 2 short ends providing the fixing at one end is a full-width hooked lip, which hooks over one side of the GMS L-angle, at the other end of the tile is a flat lip which rests on the next tile's hooked end profile, tiles are then fixed in place to complete the assembly.
- vi) Grid module shall be primary grid at 2077mm centres, and hanger at 1200mm centres.

2.10.05 Equal to "Metal Wall" Vaulted Type Aluminium Light Trough System - Profiled Ceiling

i) Vaulted type aluminium light trough with polyester powder coated finish; full access suspended fixed to and including 200mm width visible bearer and galvanized mild steel suspension system and complete with all necessary edge trimming and fixing accessories.

- ii) Ceiling panels equal to "Metal Wall" DC-ALT 1050 x 750 x 3.0mm thick aluminium non-perforated panels, with 200w bearer.
- iii) Colour shall be equal to "Metal Wall" metallic silver, code 46-7001, thickness 60-85 microns 50% gloss.
- iv) Suspension system shall be tailor made bearer 3.0mm aluminium sheet, 2.1m in length, J-profile tailor made 1.5mm hot dip galvanized m.s., C-channel tailor made 1.5mm hot dip galvanized m.s., JP-clamp tailor made 2.0mm hot dip galvanized m.s., hanger tailor made 1.5mm hot dip galvanized m.s., Z-bracket 2.0mm galvanized iron, thread rod 3/8" BSW hanger rod, Nuts 3/8" BSW nut, gasket Tesamoll 4710 PV3 PE closed cell foam.
- v) Each hanger, 3/8" galvanized iron thread rod is suspended in pair from a securely anchored Z-bracket, to align the 2 hangers on the C-channel. The C-channels are then located and fixed to the required level. Each GMS angle then checked for level by laser prior to fixing the tiles. The secondary grid J-profiles are then fixed on the C-channel by means of J-profile clamps. Another 2 pairs of thread rod are allocated in the centre for the suspension of the bearer. The bearer is checked for the required level again. The vaulted light trough body is then placed in position to complete the assembly.

2.11.02 Materials – Cement

- (i) The cement shall be Portland cement of approved manufacture in accordance with the requirements of B.S.12: 1989. Manufacturer's test certificates shall be submitted to the CIC when required.
- (ii) The cement shall be delivered to the work site in strong sealed bags bearing the maker's name, and shall be perfectly cool and ready for use.
- (iii) The cement is to be stored under cover, well protected from the weather, and not in contact with a damp floor. The cement shall be used as far as possible in the order in which it has been stored. If for any reason the cement is not used for a considerable period it shall be inspected and tested before use. Any packages in which there are hardened lumps or cakes of cement will be rejected and shall be removed off site by the Contractor at his own expense.
- (iv) The CIC may require samples of cement to be submitted for strength tests in accordance with B.S.4550: Part 3: 1987. Samples shall be drawn from each delivery of not more than 21 tonnes, each sample shall comprise at least five sub-samples to a total mass of not less than 7 kg.

2.11.03 Materials – Sand

(i) Sand shall be clean, hard, durable crushed rock or sea sand obtained from the Hong Kong Government Sand Monopoly, it shall be thoroughly washed and sieved to remove all dirt, shells and other deleterious matter before use and shall confirm to the grading limits set below:-

B.S. Sieve	Percentage by weight passing B.S. Sieves
5.00mm	100%
2.36mm	90-100%
1.18mm	70-100%
0.60mm	40-100%
0.30mm	5-70%
0.15mm	0-15%

(ii) Sand, other than the 5.00mm size, whose grading falls outside the limits set above by a total amount not exceeding 5% may be accepted.

- (iii) The quantity of clay, fine silt and fine dust present when determined by the method given in B.S.812: Part 103: Section 103.1: 1985 or B.S.812: Part 106: 1985 shall not exceed 10% by weight.
- (iv) Sand for fair-faced brickwork or blockwork shall be free from salt causing efflorescence.

2.11.04 <u>Materials – Lime</u>

- (i) Lime used for mortar shall be hydrated lime or quick lime which compiles with B.S.890: 1972 and shall be delivered to site in sealed bags bearing the manufacturer's name or brand.
- (ii) The use of shell lime for mortar is not allowed.

Lime putty shall be prepared as B.S.5492: 1977 by adding hydrated lime to water, and mixed to a thick, creamy consistency. Leave undisturbed for 16 hours (minimum) before use. The methods of test for lime putty shall be carried out in accordance with B.S.6463: Part 4: 1987.

Materials - Mortar

TYPE OF MORTAR	CEMENT	LIME	SAND	USE
Cement mortar	1 part	-	3 parts	Use for basement walls, half brick and brick-on-edge walls, loadbearing walls,
				clay block partitions, concrete block wall n.e. 150mm thick, and where specified in Working Drawings.
Cement lime mortar	1 part	1 part	6 parts	Use for brickwork or blockwork generally, except as specified above.

2.12 ELECTRICAL INSTALLATION

2.12.01 Scope of Work

(i) Works under this section includes providing all necessary materials and workmanship for complete installation of electrical system. Starting from the existing meter room on site to final circuits including all appliances and fittings as indicated on drawings.

2.12.02 General Requirements

The following are particularly applicable to the electrical installations as here specified:

- (i) British Standards & Codes of Practice issued by British Standards Institution or approved equivalent.
- (ii) "Regulation for the Electrical Equipment of Building" published by the Institution of Electrical Engineers (London), latest edition with amendments.
- (iii) Hong Kong Fire Services Department Regulations.
- (iv) The latest supply rules of the Hong Kong Electric Co. Ltd.
- (v) General Specification for Electrical Installation in Government Buildings of the Hong Kong Special Administrative Region, Building Services Branch, Architectural Services Department 2012 Edition.
- (vi) General Specification for Air Conditioning, Refrigeration, Ventilation and Central Monitoring and Control System Installation in Government Building Hong Kong Building, Services Branch, Architectural Services Department 2012 Edition.
- (vii) General Specification for Fire Service Installation in Government Buildings of the Hong Kong Special Administrative Region, Building Services Branch, Architectural Services Department 2012 Edition.
- (viii) Code of Practice for the Electricity (Wiring) Regulations (2009 Edition).

- (325) in P/AE/PUR/AGC
 - (ix) Digital Network Analyzer shall be provided for electrical circuit greater than 200A where Total Harmonic Distortion measurement function shall be provided for those greater than 400A
 - (x) EXIT sign shall be provided for EXIT door leading to escape staircase and additional sign shall be provided for protected lobby of more than one door. Directional sign shall be provided throughout the internal corridor leading to the escape staircase. All EXIT sign and Directional sign shall have battery backup for 2Hrs operation.
 - (xi) Electric door lock shall be Fail Safe type.
 - (xii) Induction Loop shall be provided for Reception Area.
 - (xiii) Emergency lighting for compliance of FSD requirements backup by 2Hrs battery shall be provided through the working area.
 - (xiv) Explosion proof lighting complete 2hr battery backup and all wiring & accessories shall be of explosion proof type as well.
 - (xv) Electrical Installation:
 - In respect of the electricity (Wiring) Regulations made under the Electricity Ordinance, the Contractor shall be responsible for submitting a Work Completion Certificate Form WR1 for all the electrical installation covered in this specification including those under plumbing, drainage, fire services and others.
 - (xvi) Having inspected the fixed electrical installation and satisfied that the installation complies with the Electricity Ordinance and is in safe working order, the Contractors of plumbing, drainage, fire services and others shall submit the duly completed Form WR1(A) to the Electrical Sub-Contractor. The form shall be duly signed by a Registered Electrical Worker and a Registered Electrical Contractor.
 - (xvii) The Contractors shall note that they are completing the whole form including Part 1 (for certification of design), Part 2 (for certification of the installation, inspection and testing) and Part 3.

2.12.03 Main Supply

(i) The Contractor shall obtain information from the Construction Industry Council about the exact location of the MCB Board in the switch room for additional electricity supply and shall commence work form the MCB Board.

2.12.04 Final Circuit

(i) The pendent fluorescent lighting fittings shall be fixed to the ceiling.

(ii) The Contractor shall supply and install 2 amp. fused connector unit at the adjacent position of each exhaust fan and shall be controlled by a 5 amp. switch at the position of 1350 mm above the finished floor level.

2.12.05 <u>Labels</u>

(i) The Contractor shall supply and install complete identification labels using engraved plastic labels, white face, red core. Circuits identification in both Chinese and English to all MCB boards. Switches for ventilation and exhaust fan shall be labeled in both Chinese and English Character engraved on the switch plate.

2.12.06 Schedule of Rates

- (i) The Contractor shall prepare and fully complete a Schedule of Rates for each and every item for the works in his tender submission.
- (ii) All rates are to be inclusive of supply and installation, all necessary accessories, termination, jointing and the like, labour, handling, detailing and setting out, use of tools, ladders and appliances, any overhead charges and profits.
- (iii) Subject to the instruction(s) of the Employer, the Contractor is required to carry out and/ or provide and/ or omit item(s) as instructed.

2.12.07 Conduit and Wiring Standard

- (i) All electricity power supply wiring works should be carried out in approved GI conduit system in accordance with British Standards.
- (ii) All ELV wiring works for computer networking, telecommunications and broadcast should be carried out in approved GI conduit system in accordance with British Standards.
- (iii) Separate conduits, and trunking systems should be separately provided for the electricity power supply wiring, computer networking wiring, telecommunications wiring and broadcast cables.
- (iv) For metal duct system including the conduits, ducts, pipes, trunking etc., they should be fully bonded and earthed, and it must be ensured that the various services are kept separate at all points, that is in ducts, junction boxes and outlets.

(325) in P/AE/PUR/AGC

(v) Ducts/conduits with more than one bend should be provided with adaptable box at each turning for wiring work.

2.12.08 Registered Electrical Contractor

(i) The electrical works should be carried out by an approved Government Registered Electrical Contractor currently on the approved list.

2.12.09 TV/FM Installation

(i) The TV/FM installation from the meter room to designated location.

2.12.10 <u>Domestic Sub-contractors</u>

(i) The electrical works should be carried out by a contractor on the current list of Approved Specialist Contractors for Public Works.

2.12.11 Earthed Equipotential Bonding

(i) Earthed equipotential bonding connection must be provided and is necessary to meet the current standard of General Specification for electrical installation in Government Building of the HKSAR.

2.12.12 Electronic Ballast for Fluorescent Tube

(i) Electronic ballast shall be rapid or instant start type complying with IEC 928 & 929. Harmonics generated by ballast shall be within the limited set by IEC555-2.

2.12.13 <u>Lighting levels for Lighting Installations</u>

(i) The adjustable optimum lighting level for general area is between 200 and 500 lux. (depend on nature of specific task) It should not be less than 150 lux under any condition.

2.12.14 Household Appliances to be Energy Efficiency

(i) Household appliances that have been registered in Hong Kong under the Energy Efficiency Labeling Schemes and carry energy labels are recommended to use. In particular, household appliances with higher energy efficiency grade (Among the five grades, Grade 1 is the most energy efficient) is preferred.

2.13 DEMOLITION AND ASSOCIATED WORKS

2.13.01 Materials to Become Property of the Contractor

(i) All materials arising from the demolition other than those items specially stated to remain in the possession of the Employer above shall become the property of the Contractor.

2.13.02 <u>Hoardings, Screens etc.</u>

- (i) Provide, erect, alter if necessary and maintain all hoardings, screens, gates, covered walkways, footways, gangways, fans, gantries, temporary enclosures, barriers, etc to the satisfaction of the CIC and the Employer.
- (ii) Provide all lighting to hoardings, covered walkways, fencing etc as may be required by the Authorities.

2.13.03 <u>Protection of Public Property etc.</u>

- (i) The Contractor is to take every precaution necessary to protect the public from injury or death during the course of the works.
- (ii) The Contractor is to take all necessary steps to restrict the nuisance of dust and noise, Pneumatic drills shall be fitted with silencers. Compressors shall be in good order to run as quietly as possible.

2.14 FIRE SERVICES INSTALLATION AND EQUIPMENT

2.14.01 Emergency Lighting

(i) SPECIFICATION

- a. Emergency lighting for all premises shall comply with British Standard 5266: Part I except that exit signs shall be as at Section 6.14.02 hereof.
- b. Emergency lighting shall be backed up by emergency power supply. If the building is not equipped with an emergency generator, the emergency lighting shall be provided with secondary battery.
- c. In the event of power failure, the emergency lighting shall be activated within 5 seconds for all bowing alleys, commercial buildings, hotel buildings and institutional buildings.

2.14.02 <u>Exit Signs A</u>

(i) SPECIFICATION

- a. Exit signs shall be internally illuminated bearing the word in English and Chinese as shown in Figure 1 of not less than 125mm high. The letter style shall be in "Helvetica" or "Marigold" or "Modified Garamond" as indicated on the samples while the Chinese characters shall be with width of vertical strokes not less than 15mm and with width of horizontal strokes not less than 10mm.
- b. Exit signs shall be connected to both mains and emergency power supply. If the building is not equipped with an emergency generator, the exit signs shall be provided with secondary battery in accordance with British Standard 5266: Part 1.

EXIT 出口

Letter Style: Modified Garamond EXIT出口

Letter Style: Helvetica

EXIT 出口

Letter Sytle: Marigold

FIGURE 1

(325) in P/AE/PUR/AGC

(ii) COLOURS

a. Colour contrast for translucent surrounds to lettering shall be as follows:

Colour Contrasting Colour

Green White

Green Black

White Green

b. The colour combination selected shall be consistent throughout the same building.

(iii) DIRECTIONAL SIGNS

a. If a sign is not installed immediately above an exit or if an exit is not clearly visible from normally occupied parts of the premises, an internally illuminated directional sign conforming to British Standard 5499: Part 1 with the following graphics shall be erected.







FIGURE 2

(iv) SELF LUMINOUS SIGNS

a. Self luminous signs to British Standard 5499: Part 2 are approved for use in Hong Kong, however, their use is not permitted where legislation specifies illuminated exit signs.

2.14.03 <u>Fire Alarm Systems</u>

(i) SPECIFICATION

- a. Note: This section deals only with manually operated alarm points of a system.
- b. Manual fire alarm system shall comply with relevant sections of British Standard 5839: Part 1:1988.

- c. Pure manual systems such as hand bells, whistles, rotary gongs, etc. are not within the scope of this Code, however, subject to the approval of the Director of Fire Services, an existing sound signal system within a premises may be utilized as a manual fire alarm system (e.g. school premises) subject to the specific signal being used solely to notify occupants of a fire situation.
- d. Manual actuating points of a pattern conforming with standards acceptable to the Director of Fire Services may be installed as an integrated part of an automatic fire detection system. Such manual actuating points shall be installed in compliance with the appropriate standard, in such locations within the premises, as set out elsewhere in this Code for the individual types of premises.
- e. The manual fire alarm system shall be linked to the fire detection system and the Fire Services Communication Centre by direct line where a fire detection system is provided for the building.
- f. Visual alarm signals in addition to audio warning devices shall be provided to form part of the fire alarm system in accordance with the current Design Manual: Barrier Free Access. The visual alarm signals shall be in the front of flashing red lights, labeled "FIRE ALARM 火警" (height of English letters and Chinese characters shall not be less than 10mm &15mm respectively. They can be indicated on separate plate affixed nearby or engraved on the light cover). Design of the visual alarm signals shall conform to Clause 6-4 of NFPA 72, National Fire Alarm Code.

2.14.04 <u>Fire Detection System</u>

(i) SPECIFICATION

- a. System shall be installed in accordance with Fire Offices' Committee Rules or other standards acceptable to the Director of Fire Services. A direct line connection shall be provided to the Fire Services Communication Centre or such other premises as may be agreed with the Director of Fire Services.
- b. Detection heads maybe of heat detecting type or smoke detecting type and heads of both types may be installed within the same system. The choice of type of head will in most instances be dictated by the circumstances, however, liaison with the Fire Services Department in the planning stage is essential.

c. Monitoring of the system in the early stages of building operation will be necessary to "locate" any head that, for any reason, is originating false / unwanted alarms.

2.14.05 <u>General Requirement</u>

The following is particularly applicable to the Fire Service Installation as here specified:

- (i) General Specification for Fire Service Installation in Government Building of the Hong Kong Special Administrative Region, Building Services Branch, Architectural Services Department 2012 Edition.
- (ii) Fire Services Installation:

For new projects, the Contractor shall arrange to obtain the completion certificate from Water Authority and Fire Certificate from the Fire Services Department before the inspection by government department having jurisdiction. For alteration and addition work, the Contractor shall carry out work same as new project up to the acknowledge letter received from by government department having jurisdiction. For renovation work, the Contractor shall submit Form 314A together with drawings to Fire Services Department for their endorsement.

2.15 PREAMBLES

- 2.15.01 The term "Allow For" shall mean the provision of all materials and labours as necessary for the execution complete by the Contractor of those works as described in the item and making good as necessary to bring the disturbed area to the same face, colour, texture etc., in the same materials as matching the surrounding existing works and/or new works to the entire satisfaction of the CIC.
- 2.15.02 The term "Take down and clear away" shall mean the execution complete by the Contractor of the work of taking down, taking up or taking out of an existing article, fitting or material either in whole or part and removing from site and deposing of same, and the rates for such items include for all or any of the followings:
 - a. Taking down, taking up or taking out of the article, fitting, or material, either in whole of part complete with plugs, holdfasts, lugs, brackets and other fixings, include all cutting out and clear the whole arising away from site.

- b. Making good to all work disturbed at fixings and any damage to surrounding surfaces including filling all mortices, holes, etc., or alternatively leaving same open and clean ready to receive new article, fitting or material.
- c. Preparing edges, ends, or surfaces of remaining material to receive junction with new.
- d. Obtaining access to the work by raising covers to fittings, etc., and replacing on completion.

The article, fitting, or material taken down shall become the property of the Contractor due allowance for credit shall be made in the rates.

- 2.15.03 The term "Take down, set aside for re-use, and re-fix" shall mean the execution complete by the Contractor of the work of taking down (or "taking up", "taking down", etc.,) and existing article, fitting or material, and setting same aside on site (or transporting to other floor site in the same building) for subsequent re-use; and or the work of re-fixing, re-laying or re-setting position from which it has previously been taken down, or to other position of the site (or other floor site in the same building); and the rates in such items include for all or any of the following:
 - a. Carefully taking down, taking up or taking out of the article, fitting or material complete with plugs, hold-fasts, lugs, brackets and other fixing including dismantling if necessary and all cutting out.
 - b. Thoroughly cleaning, oiling and adjusting and article, fitting or material ready for re-use including dismantling and re-assembling again as necessary and moving and stacking or putting into store on site or loading and transportating to other floor site in the same building, and keep in safe.
 - c. Repairing any damage caused to the article, fitting, or material during taking down, etc.
 - d. Taking the article, fitting or material from store on site (or store at other floor site in the same building), sorting, cutting and fitting, fabricating, assembling, moving, hoisting, fixing, laying or setting and jointing in new or existing work, opening or position.

- e. Providing all fixing and jointing materials such as nails, bolts, nuts, washers, screws, mastic, adhesive and mortar.
- f. Executing all plugging and screwing, jointing, cutting all mortices and grouting same, and executing all cutting, fitting, easing or adapting necessary to the article, fitting or material or to the position in which same is to be fixed, and oiling and leaving in working order.

The Contractor shall allow for any repairs required to the article, fitting or material and any making good damage caused during taking down.

- 2.15.04 The rates quoted by the Contractor shall include air-freight charges if necessary.
- 2.15.05 The list of works items should not be considered as exhaustive. The Contractor is responsible to include any item be consider missing.

2.16 PLUMBING & DRAINAGE

2.16.01 General Requirements

Comply with all the requirement for plumbing and drainage works, including General Requirements, Installation Methodology, Material and Equipment Specification, Inspection, Testing and Commissioning, and Operation and Maintenance as stipulated in the General Specification for Plumbing and Drainage Installation in Government Buildings of the Hong Kong SAR 2012 Edition

Plumbing & Drainage Installation:

- i) Piping materials, valves and accessories shall comply with Buildings Department and Water Authority requirements;
- ii) Drainage installation shall be complete with Minor Work submission to comply with Buildings Department requirements;
- iii) Technical gas piping and accessories shall suit the associated gas supply pressure with size to suit actual pipe routing thus provide adequate supply pressure to suit the application.

2.16.02 Scope of Work

- i) Installation of Plumbing & Drainage Works for all Toilet and Changing Room, including dismantle existing pipes, modify existing supply; water and drain pipe, supply and install new floor drain with trap, new copper water supply and uPVC drain pipe etc.
- ii) Installation of Plumbing & Drainage Works for Drinking System and including copper water supply pipe and uPVC waste water drain pipe: drinking system, sump pump, drip tray, control box etc.
- iii) Further detail please refers to SOR 10. Plumbing and Drainage Work session.

2.16.03 Protection of Finished Work

The contractor shall be responsible for providing and maintaining any boxing or other temporary coverings required for the protection of dressed or finished work that might be damaged during the progress of the work if left unprotected. He is to clean out all shavings, cut ends and other waste from all parts of the works before covering or infillings are constructed.

2.17 HEATING VENTILATION AND AIR CONDITIONING WORK

2.17.01 General Requirements

Comply with all the requirement for HVAC works, including General Requirements, Installation Methodology, Material and Equipment Specification, Inspection, Testing and Commissioning, and Operation and Maintenance as stipulated in the "General Specification for Air-conditioning, Refrigeration, Ventilation and Central Monitoring and Control System Installation in Government Buildings of the Hong Kong Special Administrative Region, 2012 Edition" published by the Building Services Branch of the Architectural Services Department.

a) General:

- i) HVAC, Electrical and Lighting Installation and Equipment shall comply with Building Energy Code 2012 published by Electrical and Mechanical Services Department.
- ii) Form of Compliance endorsed by Registered Energy Assessor and submission to Electrical and Mechanical Services Department for compliance with Building Energy Efficiency Ordinance (Cap 610)
- iii) Installation of A/C Outdoor Unit shall be executed by Registered Minor Works Contractor for comply with Buildings Department requirement including Authorized Person and/or Registered Structural Engineer if required.

b) HVAC Installation:

- Fresh air supply shall be 10L/s/person
- Indoor design condition: Temperature 24°CDB
 - Relative Humidity 50%RH
- Outdoor design condition: Temperature 35°CDB
 - Relative Humidity 60%RH
- Noise Level NC35 to NC40
- Mechanical Ventilation:
 Not less than 10 Air Change per Hour for Toilet, changing room
- 24Hr A/C will be provided for Hub Room
- Supply and install condensate drain pump for condensate drain disposal system to meet the design ceiling level.
- The base tender shall use ducted type A/C indoor unit

2.17.02 Scope of Work

- i) Supply and delivery and install of "DAIKIN" air-cooled VRV the intelligent air conditioning system or equivalent grade.
- ii) Supply and install "DAIKIN" R410A VRV The Intelligent System Air-cooled Heat Pump Type or equivalent grade.
- iii) Supply and install VRV Duct type A/C Indoor Unit: "DAIKIN" Ceiling Built-In Duct Type or equivalent grade.
- iv) Supply and install "DAIKIN" VRV Fresh Air Processing Unit or equivalent grade for A/C Indoor unit
- v) Supply and install "DAIKIN" Centralized Control System or equivalent grade
- vi) Supply and install "DAIKIN" air-cooled Duct type A/C split unit or equivalent grade for Hub Room
- vii) Further detail please refers to SOR 8. Heating Ventilation and Air Conditioning Work session.
- viii) HVAC Installation:

The Contractor shall provide a ventilation certificate to Client to confirm that the HVAC installation is comply fully with Fire Services Department and by government department having jurisdiction.

2.17.03 Workmanship

Workmanship shall be of the best quality, and shall be carried out by tradesman skilled in their particular trades and following the best of sound trade practice.

2.18 MAIN POWER CABLE / ANTENNA SYSTEM

2.18.01 Scope of Work

- (i) Works under this section includes supply & install TPN main power cable and trunking from main meter room to premises, fused switch inside meter room, trunking and conduit works and all associated works, and including to issue & submit certificate.
- (ii) Works under this section includes supply & install conduit run, outlet boxes and plates or TV outlet points w/. individual co-axial cable connected from meter room to premises and all associated works, etc.

2.18.02 General Requirements

- i) British Standards & Codes of Practice issued by British Standards Institution or approved equivalent.
- ii) "Regulation for the Electrical Equipment of Building" published by the Institution of Electrical Engineers (London), latest edition with amendments.
- iii) Hong Kong Fire Services Department Regulations.
- iv) The latest supply rules of the Hong Kong Electric Co. Ltd.
- v) General Specification for Electrical Installation in Government Buildings of the Hong Kong Special Administrative Region, Building Services Branch, Architectural Services Department 2012 Edition.
- vi) Code of Practice for the Electricity (Wiring) Regulations (2009 Edition)

2.19 CCTV & SECURITY SYSTEM

2.19.01 Scope of Work

Works under this section includes:

- i) Supply and install CCTV System including AXIS" IP Camera, P 3365-V IP Camera, T 8351 Microphone or equivalent grade.
- ii) Supply and install all necessary power supply, conduits, cabling, and associated works, etc.
- iii) Supply and install Fiber Optic cable with all necessary trucking and protective conduit between L5 to L5a
- iv) Supply and install Fiber Optic cable with all necessary trucking and protective conduit between L5 to L7a for CCTV main control system
- v) Supply and install Security System including "Gallagher" T20 LCD Multi tech card reader, T12 Multi tech card reader, and related accessories.
- vi) Further detail please refers to SOR 14. CCTV and Security system session.

2.19.02 Workmanship

Workmanship shall be of the best quality, and shall be carried out by tradesman skilled in their particular trades and following the best of sound trade practice.

2.20 AUDIO & VISAUAL AND PUBLIC ADDRESS SYSTEM

2.20.01 Scope of Work

Works under this section includes:

- i) Supply and install "Epson" EB-1430Wi Projector, or equivalent grade
- ii) Supply and install Da-Lite" Slimline Electrol 52" x 92" /106" dia 16:9 Electric Screen or equivalent grade
- iii) Supply and install: "SHARP" 60" iDTV ,LC-60LX650H or equivalent grade
- iv) Supply and install "Philips" BDP3480K Blu-ray Player (or equivalent grade)
- v) Supply and install "TOA" A-1706 PA Amplifier (or equivalent grade)
- vi) Supply and install JBL Control 24CT Ceiling Speaker (or equivalent grade)
- vii) Supply and install all necessary power supply, conduits, cabling, and all associated works, etc
- viii) Supply and install Digital Signage, Display Panel System
- ix) Supply and install Centralized Control Server and operator workstation
- x) Supply and install Public Address System
- xi) Supply and install Queuing System
- xii) Further detail please refers to SOR 15. AV & PA system session.

2.20.02 Workmanship

Workmanship shall be of the best quality, and shall be carried out by tradesman skilled in their particular trades and following the best of sound trade practice.

2.20.03 Protection of Finished Work

The Contractor shall be responsible for providing and maintaining any boxing or other temporary coverings required for the protection of dressed or finished work that might be damaged during the progress of the work if left unprotected. He is to clean out all shavings, cut ends and other waste from all parts of the Works before coverings or infillings are constructed.

2.21 SANITARY WARES AND FITTINGS

2.21.01 General Requirements

- i) Refers to Sanitary Wares Schedule SAS-01
- This section covers all sanitary wares and fittings supplied by the Contractorand the installation of all sanitary wares and fittings.
- iii) This section shall be read in conjunction with the General Specification for Plumbing and Drainage Installation of HKSAR published by the ArchSD.
- iv) All sensor fittings shall be suitable for use in salt water application.

2.21.02 Scope of Work

- i) Supply and install Toilet cubical partition and door which including all ironmongery and nylon coated hardware included self-closing/opening gravity hinge, indicator lock set with emergency opening and coat hook, anodized aluminium hand rail and v-channel, aluminium alloy height adjustable leg etc.;
- ii) Supply and install wall mounted urinal divisor;
- iii) Supply and install mirror wall;
- iv) Supply and install wall mounted electric hand dryer, sensor soap dispenser, air freshener
- v) Supply and install sensor faucet, wall mounted sensor for urinal and water closet, hand basin, wall mounted urinal, water closet.
- vi) Supply and install wall furring for water closet and urinal for the maintenance and to house the piping and wall mounted access panel in stainless steel fin. for the maintenance of water closet
- vii) Supply and install wall mounted towel holder, rolled paper rack, toilet sign & lettering and custom made Litter Bin in stainless steel fin. which underneath basin cabinet
- viii) Supply and install sensor soap pump
- ix) Supply and install shower head and shower mixer
- x) Further detail please refers to SOR 16. Sanitary Wares session.

2.21.03 Workmanship

Workmanship shall be of the best quality, and shall be carried out by tradesman skilled in their particular trades and following the best of sound trade practice.

2.21.04 Protection of Finished Work

The Contractor shall be responsible for providing and maintaining any boxing or other temporary coverings required for the protection of dressed or finished work that might be damaged during the progress of the work if left unprotected. He is to clean out all shavings, cut ends and other waste from all parts of the Works before coverings or infillings are constructed.

2.22 SYSTEM AND LOOSE FURNITURE

2.22.01 Scope of Work

Works under this section include:

- i) For further details, please refer to SOR 12. 'System and Loose Furniture' session.
- ii) Supply and install all new system and loose furniture and all associated works.

2.22.02 Workmanship

Workmanship shall be of the best quality, and shall be carried out by tradesman skilled in their particular trades and following the best of sound trade practice.

2.22.03 Protection of Finished Work

The Contractor shall be responsible for providing and maintaining any boxing or other temporary coverings required for the protection of dressed or finished work that might be damaged during the progress of the work if left unprotected. He is to clean out all shavings, cut ends and other waste from all parts of the Works before coverings or infillings are constructed.

2.23 <u>EQUIPMENT</u>

2.23.01 Scope of Work

Works under this section include:

- i) For further details, please refer to SOR 13. 'Equipment' session.
- ii) Supply and install all equipment and all associated works.

2.23.02 Workmanship

Workmanship shall be of the best quality, and shall be carried out by tradesman skilled in their particular trades and following the best of sound trade practice.

2.23.03 Protection of Finished Work

The Contractor shall be responsible for providing and maintaining any boxing or other temporary coverings required for the protection of dressed or finished work that might be damaged during the progress of the work if left unprotected. He is to clean out all shavings, cut ends and other waste from all parts of the Works before coverings or infillings are constructed.

2.24 <u>FINISHES BY SPECIALIST</u>

2.24.01 Scope of Work

Works under this section include:

i) For further details, please refer to SOR 17. 'Finishes by Specialist' session.

2.24.02 Workmanship

Workmanship shall be of the best quality, and shall be carried out by tradesman skilled in their particular trades and following the best of sound trade practice.

2.24.03 Protection of Finished Work

The Contractor shall be responsible for providing and maintaining any boxing or other temporary coverings required for the protection of dressed or finished work that might be damaged during the progress of the work if left unprotected. He is to clean out all shavings, cut ends and other waste from all parts of the Works before coverings or infillings are constructed.

2.25 MISCELLANEOUS ITEMS

2.25.01 Scope of Work

Works under this section include:

- i) For further details, please refer to SOR 18. 'Miscellaneous Items' session.
- ii) Supply labour and materials to provide office removal services and all associated works.

2.25.02 Workmanship

Workmanship shall be of the best quality, and shall be carried out by tradesman skilled in their particular trades and following the best of sound trade practice.

2.25.03 Protection of Finished Work

The Contractor shall be responsible for providing and maintaining any boxing or other temporary coverings required for the protection of dressed or finished work that might be damaged during the progress of the work if left unprotected. He is to clean out all shavings, cut ends and other waste from all parts of the Works before coverings or infillings are constructed.

3.0 SPECIFICATIONS SCHEDULE

Ref. No.	Paper Sized	Description
05-MAS-01	A3 / NTS	Material Schedule
05-MAS-02	A3 / NTS	Material Schedule
05-MAS-03	A3 / NTS	Material Schedule
05-MAS-04	A3 / NTS	Material Schedule
05-MAS-05	A3 / NTS	Material Schedule
05-DS-01	A3 / NTS	Door Schedule
05-DS-02	A3 / NTS	Door Schedule
05-IRS-01	A3 / NTS	Ironmongery Schedule
05-IRS-02	A3 / NTS	Ironmongery Schedule
05-IRS-03	A3 / NTS	Ironmongery Schedule
05-ELS-01	A3 / NTS	Electrical Fitting Schedule
05-ELS-02	A3 / NTS	Electrical Fitting Schedule
05-ELS-03	A3 / NTS	Electrical Fitting Schedule
05-ELS-04	A3 / NTS	Electrical Fitting Schedule
05-ELS-05	A3 / NTS	Electrical Fitting Schedule
05-SAS-01	A3 / NTS	Sanitary Wares Schedule
05-SAS-02	A3 / NTS	Sanitary Wares Schedule
05-APS-01	A3 / NTS	Appliance Schedule
05-SIS-01	A3 / NTS	Signage Schedule
05-SIS-02	A3 / NTS	Signage Schedule
05-SIS-03	A3 / NTS	Signage Schedule
05-FFS-01	A3 / NTS	Furniture Schedule
05-FMS-01	A3 / NTS	Furniture Material Schedule
05-CSS-01	A3 / NTS	CCTV & Security System Schedule

4.0 TENDER DRAWINGS

Ref. No.	Paper Sized	Description
05-MW-01	A3 /1:150	Modification Work To Fit New Layout
05-LP-01	A3 /1:150	Layout Plan
05-CP-01	A3 /1:150	Reflected Ceiling Plan
05-AC-01	A3 /1:150	HVAC Plan
05-AC-02	A3 /1:150	Location Plan of New Outdoor Cooling Tower at L8A
05-AC-03	A3 /As Shown	VRV System Schematic Diagram
05-EP-01	A3 /1:150	Electrical Plan
05-EP-02	A3 /1:150	Electrical Routing Plan
05-EP-03	A3 /As Shown	Electrical Schematic Wiring Diagram, Legend & Notes
05-PD-01	A3 /1:150	Plumbing & Drainage Plan
05-PD-02	A3 / As Shown	Vertical Plumbing Line Diagram, Piping Notes & General Notes.
05-PD-03	A3 / As Shown	Legend, Notes, General Notes, Abbreviation &
		Material Schedule
05-FP-01	A3 /1:150	Finishes Plan with Dimension
05-E-01	A3 / 1:50	Elevation – Main Entrance
05-E-02	A3 / 1:50	Elevation – Reception & Waiting Area
05-E-03	A3 / 1:50	Elevation – Reception & Waiting Area
05-E-04	A3 / 1:50	Elevation – Reception & Waiting Area
05-E-05	A3 / 1:50	Elevation – Rest Area
05-E-06	A3 / 1:50	Elevation – Rest Area
05-E-07	A3 / 1:50	Elevation – Meeting Rm 1
05-E-08	A3 / 1:50	Elevation – Meeting Rm 2
05-E-09	A3 / 1:50	Elevation – Office
05-E-10	A3 / 1:50	Elevation – Office
05-E-11	A3 / 1:50	Elevation – Filing Room
05-E-12	A3 / 1:50	Elevation – Hub Room
05-E-13	A3 / 1:50	Elevation – Corridor
05-E-14	A3 / 1:50	Elevation – Corridor
05-E-15	A3 / 1:50	Elevation – Corridor
05-E-16	A3 / 1:50	Elevation – Conference Rm

4.0 TENDER DRAWINGS (Cont'd)

Ref. No.	Paper Sized	Description
05-E-17	A3 / 1:50	Elevation – Corridor
05-E-18	A3 / 1:50	Elevation – Corridor
05-E-19	A3 / 1:50	Elevation – Corridor
05-E-20	A3 / 1:50	Elevation – Corridor
05-E-21	A3 / 1:50	Elevation – Written Test Rm 1
05-E-22	A3 / 1:50	Elevation – Written Test Rm 2
05-E-23	A3 / 1:50	Elevation – Written Test Rm 3
05-E-24	A3 / 1:50	Elevation – Written Test Rm 4
05-E-25	A3 / 1:50	Elevation – Written Test Rm 5
05-E-26	A3 / 1:50	Elevation – Male Toilet & Changing Rm
		(Smell Lobby)
05-E-27	A3 / 1:50	Elevation – Male Toilet & Changing Rm
		(Smell Lobby)
05-E-28	A3 / 1:50	Elevation – Male Toilet & Changing Rm
05-E-29	A3 / 1:50	Elevation – Male Toilet & Changing Rm
05-E-30	A3 / 1:50	Elevation – Male Toilet & Changing Rm
05-E-31	A3 / 1:50	Elevation – Male Toilet & Changing Rm
05-E-32	A3 / 1:50	Elevation – Male Toilet & Changing Rm
05-E-33	A3 / 1:50	Elevation – Elevation – Male Toilet & Changing Rm
		(Store Room)
05-E-34	A3 / 1:50	Elevation –Female Toilet & Changing Rm
		(Smell Lobby)
05-E-35	A3 / 1:50	Elevation – Female Toilet & Changing Rm
05-E-36	A3 / 1:50	Elevation – Female Toilet & Changing Rm
05-E-37	A3 / 1:50	Elevation – Male Toilet & Changing Rm
		(Smell Lobby) (Staff Only)
05-E-38	A3 / 1:50	Elevation – Male Toilet & Changing Rm (Staff Only)
05-E-39	A3 / 1:50	Elevation – Male Toilet & Changing Rm (Staff Only)
05-E-40	A3 / 1:50	Elevation – Male Toilet & Changing Rm (Staff Only)
05-E-41	A3 / 1:50	Elevation – Male Toilet & Changing Rm (Staff Only)
05-E-42	A3 / 1:50	Elevation – Female Toilet (Staff Only)

4.0 TENDER DRAWINGS (Cont'd)

Ref. No.	Paper Sized	Description
05-D-01	A3 / As Shown	Details - Wall Section
05-D-02	A3 / As Shown	Details - Wall Section
05-D-03	A3 / As Shown	Details - Write Board
05-D-04	A3 / As Shown	Details - Written Test Rm Window Section
05-D-05	A3 / As Shown	Details - Written Test Rm Wall Section
05-D-06	A3 / As Shown	Details - Written Test Rm Phone Locker
05-D-07	A3 / As Shown	Details - Written Test Rm Lecturer's Desk -A
05-D-08	A3 / As Shown	Details - Written Test Rm Lecturer's Desk -B
05-D-09	A3 / As Shown	Details - Written Test Rm IPad's Storage
05-D-10	A3 / As Shown	Details – Toilet & Changing Rm Basin Cabinet
05-D-11	A3 / As Shown	Details – Toilet & Changing Rm Basin Cabinet
05-D-12	A3 / As Shown	Details – Toilet & Changing Rm Basin Cabinet
05-D-13	A3 / As Shown	Details – Toilet & Changing Rm Basin Cabinet
05-D-14	A3 / As Shown	Detail - Toilet & Changing Rm Basin Cabinet Section
05-D-15	A3 / As Shown	Details – Toilet Cubical
05-D-16	A3 / As Shown	Details – Toilet Cubical
05-D-17	A3 / As Shown	Details – Typical S/S Glass Door With Column
05-D-18	A3 / As Shown	Details – Office Pantry Cabinet
05-D-19	A3 / As Shown	Details – Office Pantry Cabinet Section
05-D-20	A3 / As Shown	Details – Rest Area Pantry Cabinet
05-D-21	A3 / As Shown	Details – Rest Area Pantry Cabinet Section
05-D-22	A3 / As Shown	Details – Main Entrance Wall Section
05-D-23	A3 / As Shown	Details – Main Entrance Feature Ceiling Section
05-D-24	A3 / As Shown	Details – Fire Hose Reel Door
05-D-25	A3 / As Shown	Details – Rest Area Decoration Wall
05-D-26	A3 / As Shown	Details – Reception Leaflet Rack (Column)
05-D-27	A3 / As Shown	Details – Reception Leaflet Rack
05-D-28	A3 / As Shown	Details – Reception Writing Bench Section
05-D-29	A3 / As Shown	Details – Corridor Signage
05-D-30	A3 / As Shown	Details – Corridor Signage
05-D-31	A3 / As Shown	Details – Corridor Signage
05-D-32	A3 / As Shown	Details – Floor Drainage Section For Shower Area
05-D-33	A3 / As Shown	Details – Reception Counter

4.0 TENDER DRAWINGS (Cont'd)

Paper Sized	Description
A3 / As Shown	Reception Counter Section
A3 / As Shown	Reception Low Cabinet
A3 / As Shown	Reception Cabinet For Photo Taking
A3 / As Shown	Reception Cabinet For TV Display (Queuing System)
A3 / As Shown	Reception Internet Information
A3 / As Shown	Toilet & Changing Rm Seating Bench
A3 / As Shown	Reception & Rest Area Hexagonal Suspended False
	Ceiling System
A3 / As Shown	Toilet & Changing Rm Wall Mounted Urinal Divisor
A3 / As Shown	Perspective – Reception And Waiting Area
A3 / As Shown	Perspective – Reception And Waiting Area
A3 / As Shown	Perspective – Reception And Waiting Area
A3 / As Shown	Perspective – Rest Area
A3 / As Shown	Perspective – Witten Test Room
A3 / As Shown	Perspective – Changing, Toilet, Locker
A3 / As Shown	L5 Utility Survey Layout Plan 17-7-2015
	A3 / As Shown

Annex 3.00-Specification Schedule of Assignment Brief

Design, Project Management and Fitting Out Works
for
Trade Service Centre
of
Model Trade Test Centre
for
the Construction Industry Council
Tender Reference No. (325) in P / AE / PUR / AGC



SPECIFICATION SCHEDULE LIST 1

SPEC	CIFICATION SCHEDULE LIST 1 Project no: (325) in P/AE/PUR/AGC										
Item	Description	Item	Description	Item	Description	Item	Description				
	MATERIAL SCHEDULE / 05-MAS-01		MATERIAL SCHEDULE / 05-MAS-03		MATERIAL SCHEDULE / 05-MAS-04		MATERIAL SCHEDULE / 05-MAS-05				
C-01	Acoustic suspended False Ceiling System	VR-02	Vinyl Flooring	PL-01	Plastic Laminate Fin.	M-04	Company Signage				
C-02	Acoustic suspended False Ceiling System			PL-02	Plastic Laminate Fin.	M-07	Brochure Rack				
		P-01	Emlusion Paint Fin.	PL-04	Plastic Laminate Fin.	M-08	Rubbish Bin				
A-01	Acoustic Panel	P-02	Piano Paint Fin.	PL-06	Plastic Laminate Fin.	M-09	Safe				
		P-04	Paint Fin.	PL-08	Plastic Laminate Fin.	M-11	Umbrella Tray				
WD-01	Wood Veneer fin.	P-09	Paint Fin.			M-12	Floor Stand Warning Sign				
WD-02	Wood Veneer fin.	P-10	Spray Paint Fin.	WP-01	Wallpaper - White						
WD-03	Outdoor Wood Flooring	P-11	Spray Paint Fin.			RW-01	Rock Wool				
				ST-05	Solid Core Material						
	MATERIAL SCHEDULE / 05-MAS-02			ST-06	Wall Tile - Beige						
				ST-07	Floor Tile - Grey						
B-01	Roller Window Blind			ST-15	Floor Tile						
				ST-16	Solid Core Material						
GL-01	Clear Glass			ST-17	Floor Tile - Beige						
GL-03	1 HR FRR Glass			ST-18	Floor Tile - Grey						
GL-06	Colour Glass			ST-19	Floor Tile						
GL-08	Safety Glass										
GL-09	Colour Glass										
CP-01	Carpet Tile										
CP-03	Aluminum Alloy Mat										
MT-01	Stainless steel										
MT-03	Clear Mirror										
MT-06	Color Metal Panel										

SPECIFICATION SCHEDULE LIST 2

Project no: (325) in P/AE/PUR/AGC

Item	Description	Item	Description	Item	Description
	DOOR SCHEDULE / 05-DS-01	II	RONMONGERY SCHEDULE / 05-IRS-01	ELE	CTRICAL FITTING SCHEDULE / 05-ELS-01
D04	Double Swing Glazed Door w./ 1 hr FRR	I-03	Door Handle	E-01	T5 Flourscent Tube
D05	Single Swing Glazed Door	I-04	Floor Spring	E-02	Flexible LED Strip
D13	Single Swing Door w./ 1 hr FRR			E-03	LED Spot Light
D15	Single Swing Solid Core Door w./ 1 hr FRR	II	RONMONGERY SCHEDULE / 05-IRS-02	E-04	Twin Down Light
D16	Single Swing Solid Core Door w./ 1 hr FRR				
D18	Double Swing Solid Core Door w./ 1 hr FRR (Outdoor)	I-05	Floor-mounted door stopper	ELE	CTRICAL FITTING SCHEDULE / 05-ELS-02
		I-06	Sliding Glass Door Lock		
	DOOR SCHEDULE / 05-DS-02	I-07	Sliding Wooden Door Lock with Key	E-05	LED Down Light
		I-08	Lever Door Handle and	E-06	LED Light Panel
D19	Pipe Duct Swing Solid Core Door		Cylinder Escutcheon	E-07	T5 Light Box
D20	Double Swing Glazed Door w./ 1 hr FRR(Automatic Door)	I-09	Swing Door Handle	E-08	Socket
				E-09	Switch
		II	RONMONGERY SCHEDULE / 05-IRS-03		
				ELE	CTRICAL FITTING SCHEDULE / 05-ELS-03
		I-12	Double Swing Door Drive Mechanism		
		I-14	Swing Door Closer	E-15	Motion Sensor
		I-15	Door Lock		
		I-16	Door Lock	ELE	CTRICAL FITTING SCHEDULE / 05-ELS-04
		I-17	Locker Lock		
				E-17	LED Bar
				E-18	Pendant Light
				E-19	USB Power Plate
				ELE	CTRICAL FITTING SCHEDULE / 05-ELS-05
				FB-02	Floor Box

Project no: (325) in P/AE/PUR/AGC

SPECIFICATION SCHEDULE LIST 3

Item	Description	Item	Description	Item	Description	Item	Description
SA	NITARY WARES SCHEDULE / 05-SAS-01		APPLIANCE SCHEDULE / 05-APS-01		SIGNAGE SCHEDULE / 05-SIS-01		SIGNAGE SCHEDULE / 05-SIS-02
S-01	Hand Basin	AP-07	Mini Fridge	SG-01	Sticker for MCB & Main Switch	SG-16	Sticker for Door
S-02	Faucets with Solar Power Sensor	AP-08	Water Tap	SG-02	Sticker for Time Control Box for Lighting	SG-17	Sticker for Litter Bin
S-03	Automatic Soap Dispenser	AP-09	Drinking System	SG-03	Sticker for Litter Bin	SG-18	Sticker for Automatic Door
S-04	Hand Dryer	AP-11	Corian Sink	SG-04	Sticker for First-Aid Box		
S-05	Urinal			SG-05	Sticker for Pantry	SG-21	Sticker for "VISITOR ONLY"
S-06	Sensor Flush Valve For Urinal			SG-06	Sticker for Toilet	SG-22	Sticker for "STAFF ONLY"
S-07	Water Closet - Wall Mounted			SG-07	Sticker for Light Zoning Plan	SG-24	Sticker for "Arrow"
S-08	Sensor Flush Valve For Water Closet			SG-08	Sticker for Fire Escape Route	SG-26	Sticker for "Electrical Hazard"
S-09	Rolled Paper Rack			SG-09	Toilet Sign in stainless steel fin.	SG-27	Sticker for Automatic Door Operator Manual
S-10	Toilet Cubical Including All Ironmongery			SG-10	Push / Pull Plate for doors	SG-28	Steel Plate Auto Flush
S-11	Automatic Air Freshener Dispenser			SG-12	Silk Screen for Fire Hose Reel	SG-29	Signage for Toilet Sign
S-12	Towel Holder			SG-13	Sticker for Meeting & Manager Room		
S-13	Urinal Divisor			SG-14	Sticker for Photo Taking Area		SIGNAGE SCHEDULE / 05-SIS-03
S-14	Towel Holder			SG-15	Sticker for Window		
S-15	Sensor Soap Pump					SG-30	Die-cut Toilet Sign
						SG-32	Room Plate
SA	NITARY WARES SCHEDULE / 05-SAS-02						
S-16	Shower Mixer						
S-17	Shower Head						
S-19	Wall-mounted wire basket						

Project no: (325) in P/AE/PUR/AGC

SPECIFICATION SCHEDULE LIST 4

Item Description **FURNITURE SCHEDULE / 05-FFS-01** FF-09 Stackable Chair FF-10 Eco Balance Desk FF-23 Ottoman FF-24 Pantry Chair FF-25 Pantry Table **FURNITURE MATERIAL SCHEDULE / 05-FMS-01** F-01 Panel Fabric fin. F-02 Steel leg / pedestal fin. F-03 Desk Top / Low Cabinet Top fin. Cabinet Paint Fin. F-05 | Compactus fin. F-06 Compactus fin. F-08 Seating Fin. F-14 Cable Tray F-15 Name Tab CCTV & SECURITY SYSTEM SCHEDULE / 05-CSS-01 CS-02 CCTV-IP Camera CS-05 Microphone CS-06 Card Reader CS-07 | Card Reader **CS-11** Exit Control Lock CS-12 RFID Security

MATERIAL SCHEDULE / 05-MAS-01

Project no: (325) in P/AE/PUR/AGC

Description Sample

Item	Description	Sample	Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
	CEILING F	FIN.		CEILING	FIN.		WALL FI	N.		WALL FIN	•
C-01	Acoustic suspended		C-02	Acoustic suspended		(A-01)	Acoustic Panel		WD-01	Wood Veneer fin.	
	False Ceiling System			False Ceiling System			Series No. : ECHO Panel 362			Series No.: Veneer Toffee in crown cut	2 年 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日
							Size : Refer to detail drawings			Finishes : semi glossy fin.	
	Mineral Fibre Ceiling Panel:			Metal Ceiling Panel:							生 大
	Brand : Armstrong	7 /0		Brand : DRAGON Zing							
	Series No. : Classic Lite	•		Series No. : D-02B			Supplier : Infinity Finishes Ltd.			Supplier : By Contractor	
	Size : 595 x 595mm	1		Size : 595 x 595mm			Contact: Mr. Chris Yip Tel: 3765 0902 / 6339 7571	(or equivalent)		Submit Sample	(or equivalent)
	Fin. : Pure White Color			Fin. : White powder coating					WD-02	Wood Veneer fin.	
	Pattern : Pin Hole			Pattern : Pin Hole						Series No.: Veneer Maple in Quarter cut	
	R.H. : 90%	11		Open Area : 20% effective operation						Finishes : semi glossy fin.	
					D-02B						
	Grid & Suspension System :			Grid & Suspension System :	418						
	Brand : DRAGON Zing			Brand : DRAGON Zing	10					Supplier : By Contractor	
	Series : P202 Lay-On Ceiling System with 25mm			Series : P202 Lay-On Ceiling System with 25mm						Submit Sample	(or equivalent)
	Runners included :			Runners included :					WD-03	Outdoor Wood Flooring	
	* P-24-1 Main Runner(3.0M)			* P-24-1 Main Runner(3.0M)	Hole size 孔尺寸:Dia. 1.8mm Pitch 孔距:5.0mm Open Area 開放面稿比率:20.0%					Brand : WOODN	100
	*P-24-2 Cross Runner(1.2M)			*P-24-2 Cross Runner(1.2M)	Open Area 開放即轉比率: 20.0%					Series No.: 10 - Caffe Bogota	
	*P-24-3 Cross Runner(0.6M)			*P-24-3 Cross Runner(0.6M)						Size: 3000 x 70 x 40 mm (with aluminum tube inside)	
	*P-102 Runner Bracket			*P-102 Runner Bracket						Fire resistance : EN13501_1 classe Bfl -S1	VAV
	Fin. : White powder coating	0		Fin. : White powder coating						Supplier : Karlian Int'l Ltd.	18-Coffé Bogotá
										Contact : Mr.Jerry Or Tel : 2388 3938	(or equivalent)
	Safety Standard : BS 476 Part 6 & 7			Safety Standard : BS 476 Part 6 & 7							
					E: @ 0						
		Fig 🖫 A			Fig 🖩 A						
		25			25						
	Supplier : By Contractor			Supplier : By Contractor							
	Submit Sample	(or equivalent)		Submit Sample	(or equivalent)						

MATERIAL SCHEDULE / 05-MAS-02

Project no: (325) in P/AE/PUR/AGC

Item	Description	Sample	Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
	WINDOW B	BLIND		GLASS			FLOOR F	IN.		METAL & MIRF	ROR FIN.
B-01	Roller Window Blind		GL-06	Colour Glass		(CP-01)	Carpet Tile		MT-01	Stainless steel	
	Series No.: MB/1181-0280			Series No. : Clear Crystal tempered glass w/ white paint backing			Series No. : Suits-U 908119 oxford lime (B) with 3~5mm thk. cushion back			Series No. : 316 stainless steel in hairline fin.	
							Carpet Tile Installation Method - Brick, included self-leveling floor screeding prior to the installation				
	Supplier : Many Blinds			Supplier : By Contractor			Supplier : Modular Space Ltd.	表根本或其例對於		Supplier : By Contractor	
	Contact : Mr. Brian Poon Tel: 9418 4262	(or equivalent)		Submit Sample	(or equivalent)		Contact : Mr. Douglas Ng Tel. : 2836 6332 / 9800 0832	(or equivalent)		Submit Sample	(or equivalent)
			GL-08	Safety Glass		CP-03	Aluminum Alloy Mat		MT-03	Clear Mirror	
				Series No. : 10mm thk. Clear safety tempered glass with			Brand : 3M - Rubber Face			Clear Mirror	
				white translcent sticker backing			Colour : Light Grey				
							Size : Refer to Details	胶条灰色 Bubber Gray			
								» , , , , , , , , , , , , , , , , , , ,			
				Supplier : By Contractor			Supplier : By Contractor	\$ 940 billion 411		Supplier : By Contractor	
				Submit Sample	(or equivalent)		Submit Sample	(or equivalent)		Submit Sample	(or equivalent)
GL-01			GL-09	Colour Glass					MT-06		
	Series No.: Clear tempered glass			Series No. : 10mm thk. clear safety tempered glass with color transparent sticker backing Colour : Pantone 376C						Combination: 2 top coat of Compo Urethane with Semi Gloss (Water-based P.U.resin Protective) With 1 coat of SK Sabi Guard with Undercoat (Water-based Epoxy primer) Col.: Pantone 376C	
	Supplier : By Contractor	-		Supplier : By Contractor						Supplier : SKK (HK) Ltd.	
	Submit Sample	(or equivalent)		Submit Sample	(or equivalent)					Contact : Ms. Kara Kam Tel. : 25293968	(or equivalent)
GL-03	1 HR FRR Glass	The state of the s								Tel 20290900	
	Series No. : 1HR FRR Glass With Certificate	Sur-maintana (da									
	Thickness : Refer to details	Barrager 22									
	Supplier : By Contractor										
	Submit Sample	(or equivalent)									

MATERIAL SCHEDULE / 05-MAS-03

Project no: (325) in P/AE/PUR/AGC

Description	Sample	Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
FLOOR F	IN.		PAINT FII	N.		PAINT FIN	I.		•	
Vinyl Flooring		P-01	Emlusion paint fin.		P-09	Paint fin.				
Series No.: 13732 - Platinum with 3-5mm thk. cushion back			Brand : Nippon - Gold			Series : Eco Fresh Clean				
Size : Roll size			- Less All-In-1			Col. : Pantone Cool Grey 3C				
Installation : Included self- leveling floor screeding prior to the installation			Col. : 1101 White							
Supplier : Chung Ying			Supplier : By Contractor			Supplier : SKK (HK) Ltd.				
CONTACT : MRS. CHOW TEL : 2572 3052	(or equivalent)		Submit Sample and Certificate of SVHC Test Report	(or equivalent)		Contact : Ms. Kara Kam Tel. : 25293968	(or equivalent)			
		P-02	Piano Paint fin.		P-10	Spray paint fin.				
			Series No.: White Piano Paint in glossy fin. (Low-VOC & Environmentally-friendly solvent)			Combination : 2 top coat of Compo Urethane with Semi Gloss (Water-based P.U.resin Protective) With 1 coat of SK Sabi Guard with Undercoat		_		
			Col. : Pure White			(Water-based Epoxy primer)				
			Supplier : By Contractor							
			Submit Sample and Certificate	(or equivalent)		Contact : Ms. Kara Kam	(or equivalent)			
		P-04	Paint fin.		P-11					
			Series No. : Dulux - Weathershield Exterior (Low-VOC & Environmentally- friendly solvent) Colour : 26692 (Matt White)			Combination: 2 top coat of Compo Urethane with Semi Gloss (Water-based P.U.resin Protective) With 1 coat of SK Sabi Guard with Undercoat (Water-based Epoxy primer)		-		
						Col.: White				
			Supplier : By Contractor			Supplier : SKK (HK) Ltd.				
			Submit Sample and Certificate of SVHC Test Report	(or equivalent)		Contact : Ms. Kara Kam Tel. : 25293968	(or equivalent)			
	FLOOR F Vinyl Flooring Series No.: 13732 - Platinum with 3-5mm thk. cushion back Size : Roll size Installation : Included self-leveling floor screeding prior to the installation Supplier : Chung Ying CONTACT : MRS. CHOW	FLOOR FIN. Vinyl Flooring Series No.: 13732 - Platinum with 3-5mm thk. cushion back Size : Roll size Installation : Included self-leveling floor screeding prior to the installation Supplier : Chung Ying CONTACT : MRS. CHOW	FLOOR FIN. Vinyl Flooring Series No.: 13732 - Platinum with 3-5mm thk. cushion back Size : Roll size Installation : Included self-leveling floor screeding prior to the installation Supplier : Chung Ying CONTACT : MRS. CHOW TEL : 2572 3052 P-02	FLOOR FIN. PAINT FII Vinyl Flooring Series No.: 13732 - Platinum with 3-5mm thk. cushion back Size : Roll size Installation : Included self-leveling floor screeding prior to the installation Supplier : Chung Ying CONTACT : MRS. CHOW TEL: 2572 3052 (or equivalent) P-02 Piano Paint fin. Series No.: White Piano Paint in glossy fin. (Low-VOC & Environmentally-triendly solvent) Col.: Pure White P-04 Paint fin. Series No.: Dulux - Weathershield Exterior (Low-VOC & Environmentally-friendly solvent) Colour: 26692 (Matt White) Supplier: By Contractor Submit Sample and Certificate of SVHC Test Report P-04 Supplier: By Contractor Submit Sample and Certificate of SVHC Test Report P-05 Supplier: By Contractor Submit Sample and Certificate of SVHC Test Report P-06 P-07 Submit Sample and Certificate of SVHC Test Report P-08 P-09 Paint fin. Series No.: Dulux - Weathershield Exterior (Low-VOC & Environmentally-friendly solvent) Colour: 26692 (Matt White)	FLOOR FIN. Vinyl Flooring Series No.: 13732 - Platinum with 3-5mm thk. cushion back Size : Roll size Installation : Included self-leveling floor screeding prior to the installation Supplier : Chung Ying CONTACT : MRS. CHOW TEL : 2572 3052 P-02 Piano Paint fin. Series No.: White Piano Paint in glossy fin. (Low-VCC & Environmentally-friendly solvent) Col. : Pure White Supplier : By Contractor Submit Sample and Certificate of SYHC Test Report P-04 Paint fin. Series No.: Dulux - Weathershield Exterior (Low-VCC & Environmentally-friendly solvent) Col. : P-04 Colour : 26692 (Matt White) Supplier : By Contractor Submit Sample and Certificate of SYHC Test Report Col. : Pure White	FLOOR FIN. Vinyl Flooring Series No.: 13732 - Platinum with 3-5mm thk. cushion back Size : Roll size Installation : Included self-leveling floor screeding prior to the installation Supplier : Chung Ying CONTACT : MRS. CHOW TEL : 2572 3052 P-02 Piano Paint fin. Series No.: White Piano Paint in glossy fin. (Low-VOC & Environmentally-friendly solvent) Col. : Pure White Supplier : By Contractor Submit Sample and Certificate of SVHC Test Report P-10 P-10	FLOOR FIN. PAINT FIN. Series No.: 13732 - Platinum with 5-smid class and 1-law fill fill. Series No.: 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14	FLOOR FIN. PAINT	FLOOR FIN. PAINT FIN. Series: Eco Fresh Clean Col. : Parch	FLOOR FIN. PAINT FIN. PAINT FIN. PAINT FIN. PAINT FIN. POT Emission paint fin. Series No. 15732 - Plaintum Some Stand Sirve Installation: Installated self- benefits floor screeding prior to the installation Supplier: By Contractor Supplier: By Contractor

MATERIAL SCHEDULE / 05-MAS-04

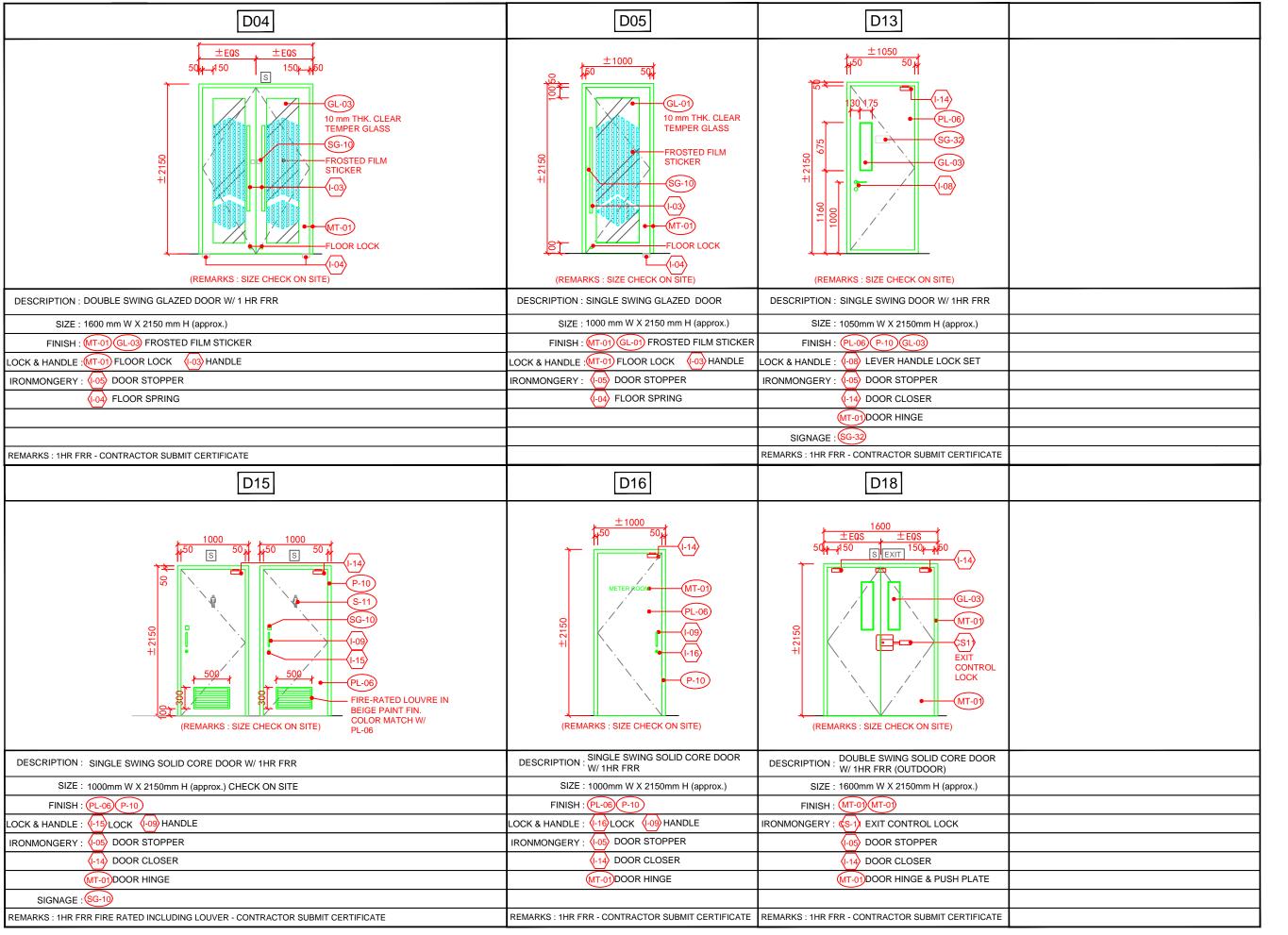
Project no: (325) in P/AE/PUR/AGC

Item	Description	Sample	Item Description	Sample	Item	Description	Sample	Item	Description	Sample
	PLASTIC LAMIN	NATE FIN.	PLASTIC LAMINATE	& WALLPAPER		MARBLE &	TILES		MARBLE &	TILES
PL-01	Plastic Laminate fin.		PL-08 Plastic Laminate fin.		ST-05	Solid Core Material		ST-16	Solid Core Material	
	Series No. : Formica 949 / White		Series No. :			Brand : Corian			Brand : Corian	
	1 diffied 5457 Winte		Formica 8848LN / Blacken - Legno			Series No.: MT-707			Series No.: OY-718	
			including the Edgeband EGFC8848LN (0.8mm thick)			(Antarctica)			(Oyster)	
			,	8848LN (Blacken-Legno)			-			
				6646LN (Blacken-Legilo)		Supplier :	-		Supplier :	* 1 () () () () () () () () () (
	Supplier : By Contractor		Supplier : By Contractor	Marie Care		Wing Ming Marble Co. Contact Person : Ms. Lee	-		Wing Ming Marble Co. Contact Person : Ms. Lee	
	Submit Sample	(or equivalent)	Submit Sample	EGFC8848LN		Tel. : 2802 3041	(or equivalent)		Tel.: 2802 3041	(or equivalent)
PL-02	Plastic Laminate fin. (colorcore)				ST-06	Wall Tile - Beige		ST-17	Floor Tile - Beige	
	Series No. :					Series No.: SDGQ6012			Brand : Gotha Quartz	
	Formica C0949 / White Colorcore					Size : 300 X 600mm Anti-Slip R10			Series No.: SUG 1654	
									Size: 600 X 600 X 10mm	下。21 — 多首
									Slip resistance : R9	
	Supplier : By Contractor					Supplier : Global Link	The state of the s		Supplier : RBMS	
	Submit Sample	(or equivalent)				Contact Ms. Silvia Lau Tel. : 25766332	(or equivalent)		Contact : Mr. Cheung Tel. : 2575 8181	(or equivalent)
PL-04	Plastic Laminate fin.		WP-01 Wallpaper		ST-07	Floor Tile - Grey		ST-18	Floor Tile - Grey	
	Series No. :		Series No. : GU - 2825	200 De 1 7 1		Series No.: SDGQ6011			Brand : Gotha Quartz	
	Formica 927 / Folkstone including the Edgeband					Size : 300 X 600mm			Series No.: SUG 1321	
	EGFC0927 (0.8mm thick)			在大大沙里 家		Slip Resistance : R10			Size : 600 X 600 X 10mm	
		927 / Folkstone							Slip resistance : R9	
	Supplier : By Contractor		Supplier : Goodrich Global			Supplier : Global Link			Supplier : RBMS	
	Submit Sample	EGFC0927	Ltd. Contact : Mr. Andy Shum	(or equivalent)		Contact Ms. Silvia Lau	(or equivalent)		Contact : Mr. Cheung	(or equivalent)
PL-06	Plastic Laminate fin.		Tel.: 2668 5757 / 6097 2379	(5. 5 - 1,5)	ST-15)	Tel.: 25766332 Floor Tile	(5. 64	ST-19	Tel.: 2575 8181	(co equinality)
33/	Series No. :			-		Series No.: EDM-0003			Series No.: SCECF 0707/N	
	Formica 1395LN / Tassili -			-			MILENSON THE TOTAL			
	Linea including the Edgeband			-		Colour : W_Cream			Size: 600 X 300 X 10mm	
	EGFC1395LN (0.8mm thick)			_		Size : 1000L x 144W x 10mm	and the second		Slip resistance : R11	
		1395LN (Tassili - Linea)								
	Supplier : By Contractor					Supplier : RBMS	and the second		Supplier : Global Link	
	Submit Sample	EGFC1395LN				Contact : Mr. Cheung Tel. : 2575 8181	(or equivalent)		Contact Ms. Silvia Lau Tel.: 25766332	(or equivalent)

MATERIAL SCHEDULE / 05-MAS-05

Item	Description	Sample	Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
	MISC.			MISC.							
	Company Signage Details: Logo - acrylic with spray paint fin. & Letterings - 316 stainless steel in mirror fin.	CONSTRUCTION INDUSTRY COUNCIL 建造業議會 and / or TRADE TESTING WORKSHOP - 測試工場		Umbrella Tray Details: Stainless Steel in Mirror Finishes Over All Size: 300W x 300L x 700Hmm Bottom Size: 200W x 200L							
	Supplier : By Contractor	METAL SCAFFOLDER · 金屬棚架工		Supplier : By Contractor							
	Submit Sample & Artwork	(or equivalent)		Submit Sample	(or equivalent)						
	Detail : 316 S/S Frame with Clean Polycabonate Fin.		(M-12)	Floor Stand Warning Sign Details : Stainless Steel Finishes Over All Size : 250W x 610Hmm	小心地滑CAUTION						
	Size : See Detail Drawing Supplier : By Contractor	(an a maiordon)		Supplier : By Contractor	WET						
	Submit Sample	(or equivalent)		Submit Sample	(or equivalent)				<u> </u>		
	Rubbish Bin Detail : Metal rubbish bin with 2-layer metal body with silver ring Size : 225W x 260Hmm Supplier : By Contractor	22.5cm 26cm	(RW-01)	Rockwool							
	Submit Sample	(or equivalent)		Physical Properties							
	Safe Series No.: BGX-450 Size 350Wx350Dx450Hmm Weight: 28kg Supplier:			Density log/m ¹ Corrosion Resistance BS 3958 part 5-1969 Moisture Abvorption amounted amounted as a controlled amounted as amounted soft 90°C and 99 relatively. humitary for 96 hour sample Specification For Reference Only FOR DRY WALL INSULATI	Less than 0.2% by volume. Install Acoustic Baffle 602 wall insulation in accordance with manufacturers written installation instructions. ON - 50mm thk. 60 kg / m3						
	ANBEA Night Safe Contact Person : Ms. Wong Tel. : 2690 0221	(or equivalent)		SUPPLIER : BY CONTRACTOR SUBMIT SAMPLE	R						

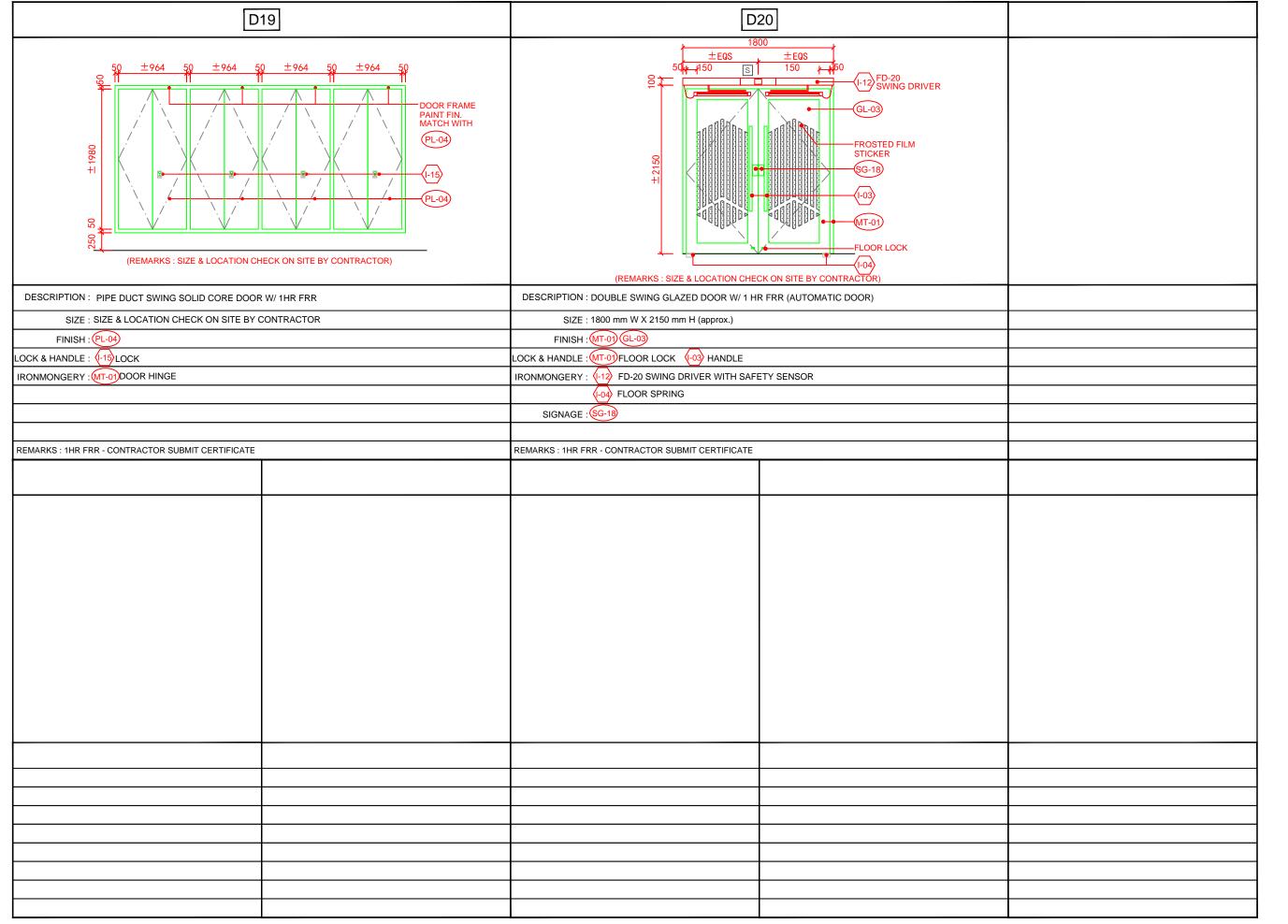
CONSTRUCTION INDUSTRY COUNCIL DOOR SCHEDULE (05-DS-01)



NO: DATES: REMARKS THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR PROJECT TITLE: (325) DESIGN, PROJECT MANAGEMENT AND FITTING OUT WORKS FOR TRADE SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CONSTRUCTION INDUSTRY COUNCIL PROJECT STAGE **TENDER DRAWING** DRAWING TITLE : DOOR SCHEDULE PROJECT NO. SCALE DATE DRAWN BY APPROVED BY DWG NO. REV. 05-DS-01 NOTE: DRAWING IN A3 PAPAER SIZE

REVISION AND SUBMISSIONS

CONSTRUCTION INDUSTRY COUNCIL DOOR SCHEDULE (05-DS-02)



TE VIOIOIT	AIND GODI	VIIOGIOINO	
NO:	DAT	ES:	REMARKS:
THE SAME SHAI OF THE WORK MEASUREMENT	DO NOT SCAL	E DRAWING A	LL
BY THE CONTRA	ACTOR	LONED AT THE	
PROJECT	TITLE:		
(325) DESIG			
SERVICE C	ENTRE O	F MODEL	TRADE
TEST CENT			
PROJECT	STAGE		
		INC	
TENDER	K DKAW	ING	
DRAWING	TITLE :		
DOOR S	CHEDU	LE	
PROJECT I	NO.		
SCALE		DATE	
SCALE N 7	Γ.S.	DATE	
DRAWN BY	(APPROV	'ED BY
DWG NO.		REV.	
05-DS-02			,
20 20 02			
NOTE: DR	AWING II	N A3 PAF	PAER SIZE

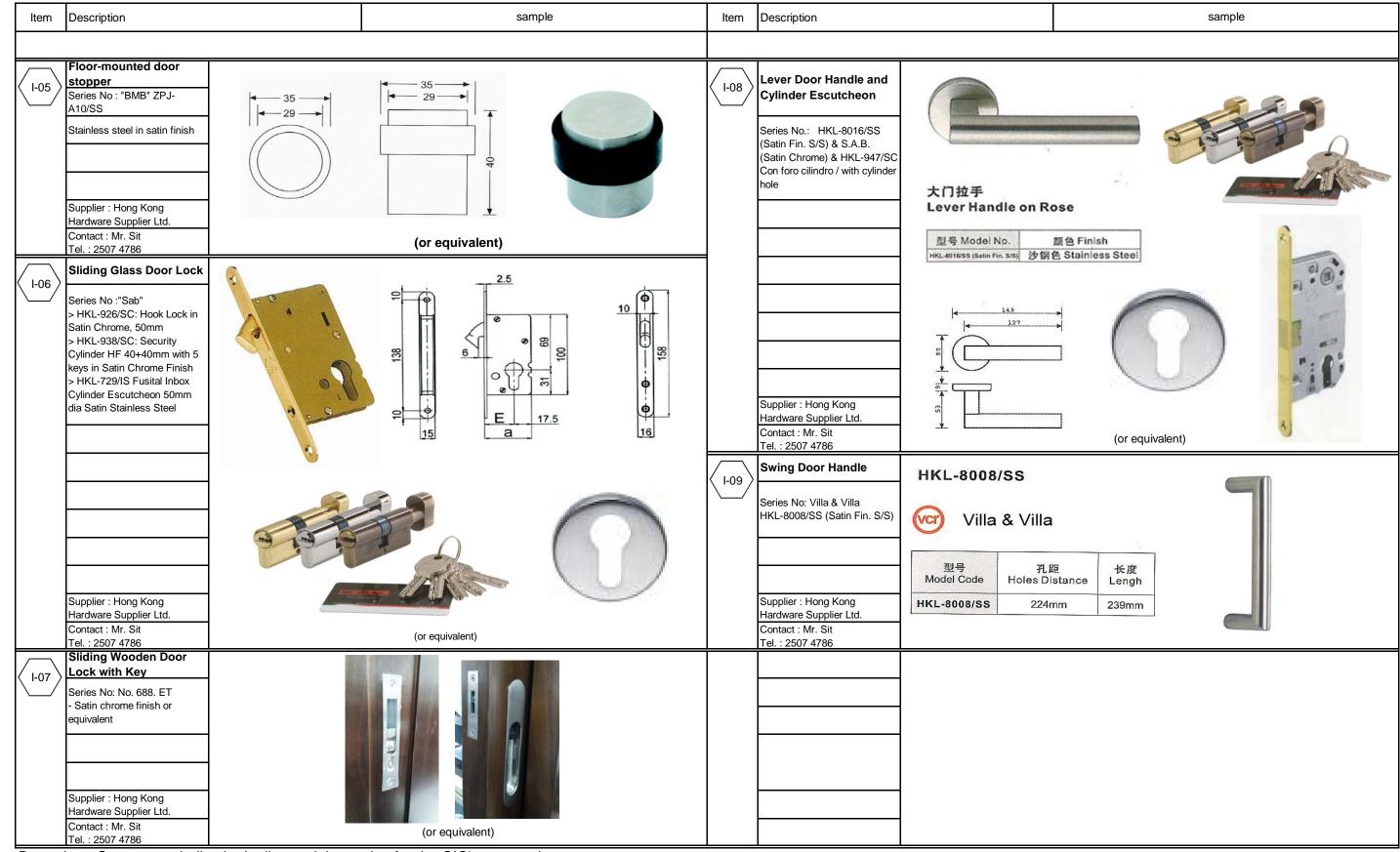
REVISION AND SUBMISSIONS

IRONMONGERY SCHEDULE / 05-IRS-01 Project no: (325) in P/AE/PUR/AGC

Item	Description	sample	Item	Description	sample
	•				
I-03	Door Handle Series No: PA-146 / 1200mmL Stainless steel in satin finish Supplier: Hong Kong Hardware Supplier Ltd. Contact: Mr. Sit Tel.: 2507 4786 Floor Spring Series No: "Dorma" BTS-75V or	PA=148 PA-1451A-38×25×1200-H PA-1451B-38×25×1200-H PA-1451B-38×25×1200-H PA-1451B-38×25×1200-Bilver(baked finish)	Item	Description	sample
	equivalent (Size 4 EN, with 8062/8064/7421 "Dorma" double action accessories, Stainless steel in satin finish Supplier: Hong Kong Hardware Supplier Ltd. Contact: Mr. Sit Tel.: 2507 4786	or wide, whether LH, RH, or single or double action DORMA BTS 80 and BTS 75 V door springs are designed for all types of door. A comprehensive program of accessories ensures that they can bused successfully with a wide variety of door constructions and floor constructions and floor coverings. Gastefits			

L5 - IRONMONGERY SCHEDULE / 05-IRS-02

Project no: (325) in P/AE/PUR/AGC



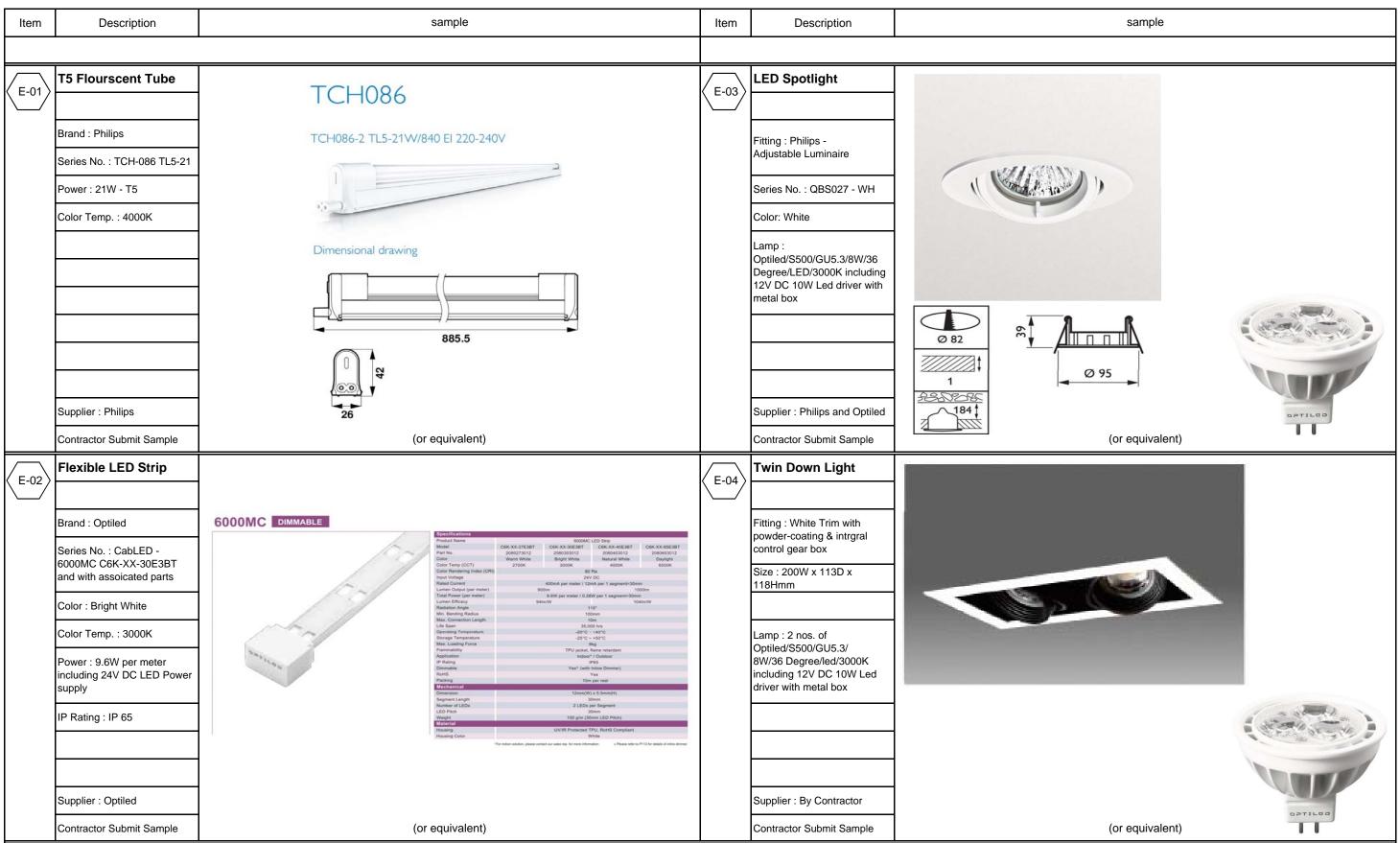
L5 - IRONMONGERY SCHEDULE / 05-IRS-03

Project no: (325) in P/AE/PUR/AGC

Item	Description		sample	Item	Description		sample
I-12	Drive Mechanism Series No : "Gilgen" FD-20 R Si G C be by C C C C C C C C C C C C C C C C C C	Each set Consists of: a) AD- 0762-Gilgen FD-20 drive unit w/o rod assembly (Alum cover) b) AD-10764-Gilgen Rod for FD20 Swing Door; Gilding Rod c) AD-10767- Gilgen FD20 Swing Door; Clamp with screw (Axis between drive unit and rod by 50mm) d) AD-10776- Den Position Stop piece assembled (buid-in component) e) AD-10116- D-BEDIX Program Selector (Sey (Reception counter) f) AD-10179-Eye-tech kit 2 Silver) (L=900): 2 pcs for each panel g) AD-10165-Fly Gensor (Silver) h) AD-10166- CCA concealed Ceiling cover White) i) AD-10168-Magic Switch -white (in/outside)		I-16	Supplier: Hong Kong Hardware Supplier Ltd. Contact: Mr. Sit Tel.: 2507 4786 Locker Lock Brand: HAFELE Series No: Safe-O-Mat Coin Return Lock	锁胆 Cylinder Knob with 3 Keys	フラー フラー フラー フラー フラー フラー フラー では Tipe Man Dead Bolt with Escutcheon 注:不包括観題 Remark: Cylinders not included (or equivalent)
	Supplier : AUB Limited ou Contact : Mr. Alfred Chot	nstallation Work for 1 set double door with : -Key lock butside - Manual Release switch (on reception counter) Release Buttons and By	(or equivalent)		Supplier : Hong Kong Hardware Supplier Ltd. Contact : Mr. Sit Tel. : 2507 4786		(or equivalen
I-14	Swing Door Closer Brand : DORMA Model No : TS-68 Supplier : Hong Kong Hardware Supplier Ltd. Contact : Mr. Sit Tel. : 2507 4786		Door Closer (or equivalent)				
I-15	Door Lock Series No: Yale (6100.45) Supplier: By Contractor Submit Sample		(or equivalent)				

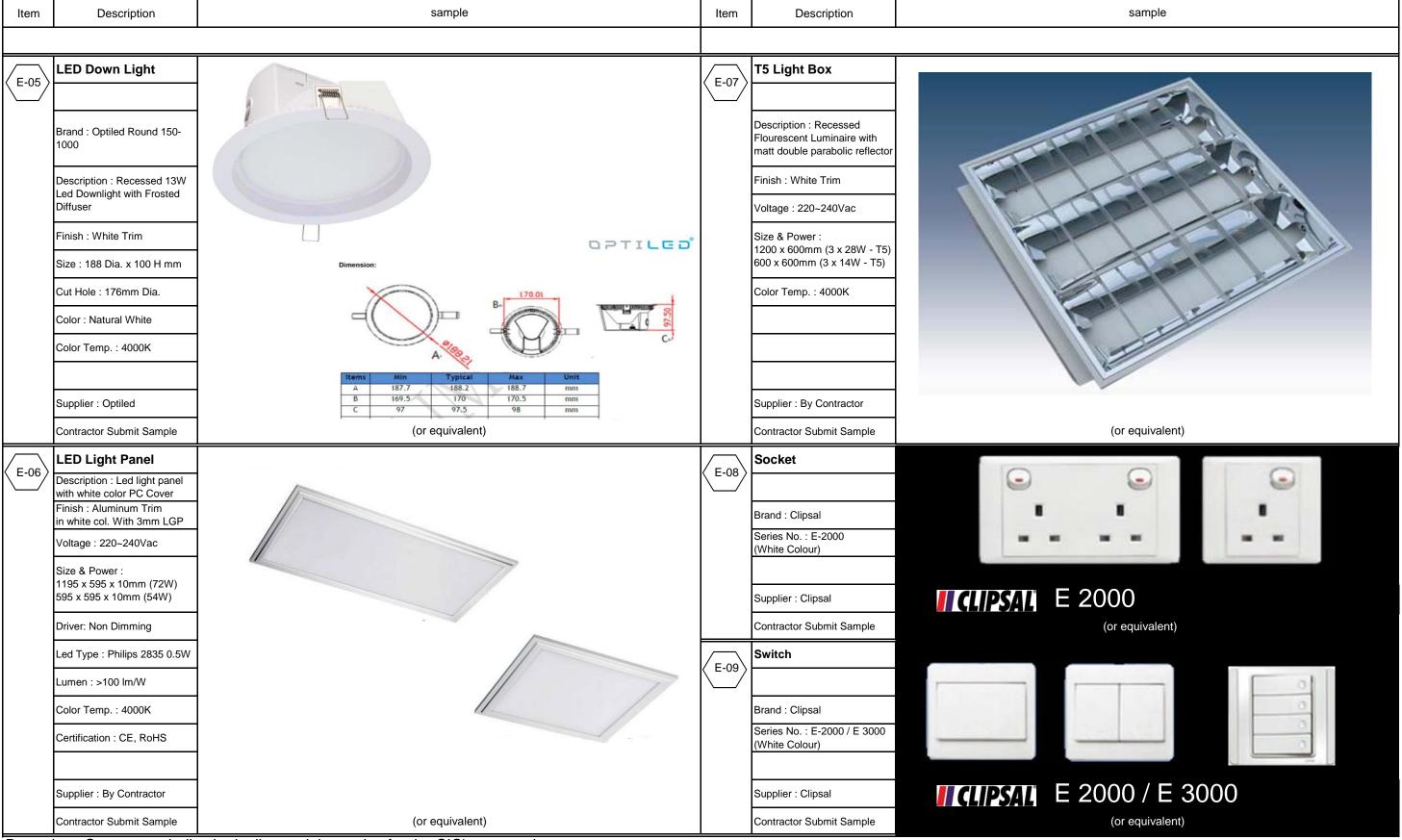
ELECTRICAL FITTING SCHEDULE / 05-ELS-01

Project no: (325) in P/AE/PUR/AGC



ELECTRICAL FITTING SCHEDULE / 05-ELS-02

Project no: (325) in P/AE/PUR/AGC



ELECTRICAL FITTING SCHEDULE / 05-ELS-03

Project no: (325) in P/AE/PUR/AGC

ltore	Description	sample		Itam	Description	sample
Item	Description	sample		Item	Description	sample
	Motion Sensor Brand : MK Serial No: K5015 Description : Simple Fit Sensor 360 Flush Ceiling Mounted PIR Sensor	Description MK Simple Fit Sensors offer cost effective presence detection for lighting control in small to medium areas. This one-box solution is easy to install and commission, and requires no additional parts. The following versions are available: Flush mounted K5015 - Spring Clips enable ease of installation in plasterboard ceilings Features Advanced presence detection by passive infrared (PIR) technology Passive photocell holds lights off when area becomes occupied in bright ambient conditions	Technical specification Maximum recommended mounting height: 1.8m to 3m Range: Cone-shaped detection pattern, 5m radius at 2.5m mounting height Description of the state of			
	Supplier : by Contractor		KS016 Weight: 105g approx			
	Contractor Submit Sample	(or equivalent)		-		
		when it all material complete for the CIC's approval				

ELECTRICAL FITTING SCHEDULE / 05-ELS-04

Project no: (325) in P/AE/PUR/AGC

Item	Description	sample	Item	Description	sample
E-17	LED BAR		E-19	USB Power Plate	
L-11/		Strip II+ LED	L-19/		
	Brand : Philips	LED Strip II+ RCP703 C		Brand : MK	by Honeywell
	Description : LED Linear Wallwasher with adjustable bracket			Series : K5837WHI Euro 2 module, 2A twin USB outlet (50x50mm) – WHITE	use charging use charging
	Series No. : LED Strip II + BCP703C	Dimensional drawing		supplier : by Contractor	
	Size : 1194 x 83 x 59 mm			Contractor Submit Sample	(or equivalent)
	Color : Warm White				
	Color Temp. : 3000K	1194			
		210			
	Supplier : by Contractor				
	Contractor Submit Sample	(or equivalent)			
E-18	Pendant Light	ILLUSTRATION:			
	Brand : Tom Dixon Model : Beat Light Wide +				
	Beat Light Tall Finishes : Black	36/14.2"			
	Lamp type : 33W G9 Halogen Bulb for each	ILLUSTRATION: 19/7.5"			
		Black braided cable (250 cm/98 in) Black metal ceiling rose (Ø 12.5 cm/4.9 in)			
		(6.3*			
		36/14.2*			
	Supplier : by Contractor	Black braided cable (250 cm/98 in) Black metal ceiling rose (Ø 12.5 cm/4.9 in)			
	Contractor Submit Sample	submit all material samples for the CIC's approval			

ELECTRICAL FITTING SCHEDULE / 05-ELS-05 Project no: (325) in P/AE/PUR/AGC

			 	, ,
	Floor Box			
FB-02	Brand : MK			
	Series No. : CRMB340-4GRY* Size : 340 x 265 x 84-			
	124mmD	F. L. A.		
	Supplier : by Contractor			
	Contractor Submit Sample	Detail :Floor Box With Twin Socket / Voice & Data Outlet / VGA Point / HDMI Point / Mic Point , including spare cover plate in 4 compartments		
		Including Spare Cover plate in 4 compartments		
		submit all material samples for the CIC's approval		

SANITARY WARES SCHEDULE / 05-SAS-01

Project no: (325) in P/AE/PUR/AGC

Item	Description	Sample	Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
S-01	Hand Basin		S-05	Urinal		S-09	Rolled Paper Rack		S-12	Towel Holder	
3-01	Brand : American Standard		3-05	Brand : American Standard	0	3-09	Brand : Kimberley Clerk		3-12	Brand : Kimberley Clerk	
	Series No. : TF-470L Under Counter Basin			Series No. : WP-6727.322.04			Series No. : Aquarius 70260			Series No. : Aquarius 70230	
	Joseph Jacobs	0		6.262	100		Description : Bath Tissue Jumbo Roll dispenser			Description : Multifold double clip dispenser	
							euribe i teir dieperiser	-			
	Supplier :			Supplier :			Supplier : H.S. Chan co. ltd.	1		Supplier:	-
	American Standard Contact : Mr. Thomas Yeung	(or equivalent)		American Standard Contact : Mr. Thomas Yeung	(or equivalent)		Contact : Ms. May Lee	(or equivalent)		H.S. Chan co. ltd. Contact : Ms. May Lee	(or equivalent)
/ \	Tel: 25074552 Faucets with	(or equiversity)		Tel: 25074552 Sensor Flush Valve	(5. 545)		Tel:9385 1548 Toilet Cubical	(c. equitation)		Tel :9385 1548 Urinal Divisor	(0. 04
$\langle S-02 \rangle$	Solar Power Sensor Brand : Sloan		S-06	For Urinal Brand : TOTO		S-10	Including All		S-13	20mm thk. Frosted Safety Glass	
	Series No. :			Series No. : DUE108U			Ironmongery Series No.: Formica Coolinear			Divider With Stainless Steel Wall Mounted Bracket	
	EFX-275-XOX-OXXX	51		(powered by batteries)			Cubicles System – with Headrail / Material: Formica Compact			Wall Mounted Bracket	
				Finish : Satin Fin.	1010		Grade laminate, blackcore, double sides, matte finish				
		T (I		Supplier : VSC Building			(EN438, NEMA-LD3), 12mm thick for partition panel, door &				
	Supplier : Delta Force			Products Co. Ltd.	(sea water use)		pilaster / Color : 0927 Folkstone / Hardware: Stainless steel 304			Supplier : By Contractor	
	Contact : Mr. Joe Luk Tel : 28987400 / 90268752	(or equivalent)		Contact : Mr. Patrick Wong Tel : 22382628 / 91064075	(or equivalent)		hardware includes angle bracket, self closing / opening	4		Submit Sample & Shop Drawing	(or equivalent)
/ \	Automatic Soap Dispenser		S-07	Water Closet - Wall Mounted			gravity hinge, indicator lock set with emergency opening,		S-14	Towel Holder	
	Brand : Kimberley Clerk			Brand : TOTO			handle, coat hook and pilaster base cover; Aluminum hardware			Location : Dry Pantry	
	Series No. : 92147	489 1 (110 mile)		Series No.: CW822NJ with Wall carrier - VJY850C / Screw			includes head rail, U-channel.	Dimension : 800-900 mm (W) x 1500-1800 mm		Size : 300Hmm x 200Wmm	
	Description : Touchless Electronic Skin Care Dispenser			hole 180mm Centre to Centre				(D) x +-1900 mm (H) - overall height from finish floor level to			
		Accounts of						pilaster top - (For reference only subject to project's Requirement)			
	Supplier : H.S. Chan co. ltd.	4		Supplier : VSC Building Products Co. Ltd.			Supplier : Formica (Asia) Ltd.			Supplier : Life Kan	
	Contact : Ms. May Lee Tel :9385 1548	(or equivalent)		Contact : Mr. Patrick Wong Tel : 22382628 / 91064075	(or equivalent)		Contact : Mr. Ricky Cheung Tel : 21698185 / 90421975	(or equivalent)		Tel : 2872 8738	(or equivalent)
	Hand Dryer			Sensor Flush Valve For Water Closet			Automatic Air Freshener Dispenser			Sensor Soap Pump	
S-04	Brand : Dyson		S-08	Brand : TOTO		S-11	Brand : Kimberley Clerk		S-15	Series No. Simple Human - ST1018	
	Series No. : Airblade AB 14 (White)	dyson		Series No. : DCE605U (powered by batteries)			Series No. : 92620				
	Williage VD 14 (Mille)			Finish : Satin Fin.			Description : Continuous Air Freshener Dispenser				
							riesnener Dispenser				
	Supplier : Jebsen Consumer			Supplier : VSC Building	тото		Supplier :			Supplier : Life Kan	
	Contact : Mr. James So	(or equivalent)		Products Co. Ltd. Contact : Mr. Patrick Wong	(or equivalent)		H.S. Chan co. ltd. Contact : Ms. May Lee	(or equivalent)			(or equivalent)
	Tel: 3180 3348	(or equivalent)		Tel: 22382628 / 91064075	(or equivalent)		Tel :9385 1548	(or equivalent)		Tel : 2506 0001	(or equivalent)

SANITARY WARES SCHEDULE / 05-SAS-02

Project no: (325) in P/AE/PUR/AGC

	T	Carrala	14	Description	0	14	Departure	0-11	14		0
Item	Description	Sample	Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
	-										
S-16	Shower Mixer										
3-16/	Brand : HANSGROHE	(6)									
	Series No. : #31965		-								
	Finish : Chrome Finish										
			•								
	Supplier : Galaxy Bathroom Collection		-								
	Contact : Joanne Tel : 23990668	(or equivalent)	-								
	Shower Head										
S-17	Brand : HANSGROHE		•								
	Series No. : #28496-00 + 27438-00		-								
	Finish : Chrome Finish		-								
			-								
	Supplier : Galaxy Bathroom Collection		-								
	Contact : Joanne Tel : 23990668	(or equivalent)									
	Wall-mounted	William Co.									
S-19	wire basket Brand : GEDY		-								
	Series No. : Corner Double		-								
	Shower Basket 2482										
		The state of the s									
	O marificati 1100 (Part)		<u> </u>								
	Supplier : H2O (Pro)		-								
	Tel: 2923 5090	(or equivalent)						ı	<u> </u>	1	
<u> </u>		l Librait all matarial agrae	<u> </u>			<u>. </u>		<u> </u>	<u> </u>		

Project no: (325) in P/AE/PUR/AGC

APPLIANCE SCHEDULE / 05-APS-01

Description Sample Item Description Sample Item Description Sample Mini Fridge AP-07 Brand: Whirlpool Series No. : W07RX Size: 440W x 510D x 640mmH Supplier : By Contractor Submit Sample (or equivalent) Water Tap AP-08 Brand : Fima Carlo Franttini Series No. : 3537/2 Details: Water tap with single level in chrome fin. Supplier : By Contractor Submit Sample (or equivalent) Drinking System AP-09 Brand : H2Office Series No. : UW998 Colour : ZINC Size: 435W x 460D x 1325mmH Supplier: Life Solutions Contact : Ms. Cawah Chou (or equivalent) Tel.: 2778 4688 Corian Sink AP-11 Brand : Corian 0 Series No.: 804 A/S (Single Bowl) Colour: White L445 x W445 x D223mm Supplier : By Contractor Remarks: Including over flow drain point by contractor Submit Sample (or equivalent)

SIGNAGE SCHEDULE / 05-SIS-01

Project no: (325) in P/AE/PUR/AGC

Item	Description	Sample	Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
SG-01	Sticker for MCB &		SG-05	Sticker for Pantry		SG-09	Toilet Sign in		SG-13	Sticker for Meeting &	
	Main Switch			Details: Transparent sticker in matt fin. with digital colour			stainless steel fin.			Manager Room	MEETING RM1
	Details : Transparent sticker in matt fin. with digital colour	MCB & MAIN SWITCH		print.	PLEASE KEEP PANTRY CLEAN 請保持茶水間清潔		Details: 316 stainless steel sign in hairline fin. with black	TOWNSTON TOWN AND AND AND AND AND AND AND AND AND AN		Details: Transparent sticker in matt fin. with digital	MC VVVVV VVV
	print.	總控制箱及總開關		Size : 110mm x 35mm	THE PARTY OF THE P		etched letterings and colour logo	CAUTION WET FLOOR		colour print.	MS. XXXXX XXX Manager - Human Resources
	Size : 270mm x 100mm						Size : 297mm x 420mm				
							(For corridor,toilet and Pantry)	請勿吸煙			
	Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)			PLEASE KEEP THIS AREA CLEAN & TIDY 請保持地方清潔		Submit Artwork by Contractor	(or equivalent)
SG-02	Sticker for Time Control Box for		SG-06	Sticker for Toilet				DO NOT LEAVE YOUR BELONGINGS 請留意閣下的財物	SG-14	Sticker for Photo	
	Lighting	TIME CONTROL BOX		Details: Transparent sticker in matt fin. with digital colour				THANK YOU FOR YOUR CO-OPERATION 多謝合作		Taking Area	
	Details: Transparent sticker in matt fin. with digital colour	FOR LIGHTING 時間控制箱 (燈具)		print.	PLEASE KEEP TOILET CLEAN					Details : Transparent sticker in matt fin. with digital	PHOTO TAKING AREA
	print.			Size : 110mm x 35mm	請保持洗手間清潔					colour print.	PHOTO TAKING AREA
	Size : 165mm x 100mm									Size : 210mm x 297mm	
	Submit Artwork by Contractor	(or oquivalent)		Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)
SC-03	Sticker for Litter Bin	(or equivalent)	SG-07	1	(or equivalent)	SG-10		(or equivalent)	SG-15	Sticker for Window	(or equivalent)
30-03	Details : Transparent		30-01	Sticker for Light Zoning Plan		30-10	Push / Pull Plate for doors	(For Reference Only)	30-13	Details : Transparent	
	sticker in matt fin. with digital colour print.	LITTER BIN			W W UCH JONNEY FLAN		Details : stainless steel sign in	(1 of Neidlehold Offin)		sticker in matt fin. with digital colour print.	
	Size : 270mm x 150mm	廢 紙 箱		Details : Paper with Lamination			hairline fin. with black etched letterings and symbol	H2 12		Size: 110mm x 20mm	PLEASE KEEP THE WINDOW CLOSED 請保持窗戶關閉
		PUSH 推		Size :+- 150mm x 85mm				TE PULL			
								ETUSHE ETULE			
	Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)
SG-04	Sticker for First-Aid		SG-08	Sticker for Fire		SG-12	Silk Screen for Fire	420mm			
	Вох	_		Escape Route			Hose Reel	Fire Hose Reel 消防喉轆			
	Details : Transparent sticker in matt fin. with digital colour			Details : Paper with Lamination			Details : silk screen with black	180mm 使用消防喉艦			
	print.			Details . Faper With Lamination			letterings	(一) 打爛火警玻璃 (二) 先開啟來水擊, 再拉出腳線 (三) 蔣崃咀擊開設, 然後射向火之底部 (不適用於電火)			
	Size : 100mm x 100mm			Size :+- 150mm x 85mm	© manual, annual (1975)		Size : 420mm x 120mm &	TO OPERATE FIRE HOSE REEL 1) BREAK GAAS OF THE FIRE ALARIE CALL POINT (I) BREAK GAAS OF THE FIRE ALARIE CALL POINT (I) TURN ON WATER AT MADEL AND ORBITS JET AT SAME OF FIRE (NOT SUMMALE FOR ELECTRICAL FIRES)			
							180mm x 120mm	(For Reference Only)			
	Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)			

SIGNAGE SCHEDULE / 05-SIS-02

Project no: (325) in P/AE/PUR/AGC

Item	Description	Sample	Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
SG-16	Sticker for Door		SG-21	Sticker for "VISITOR			Sticker for Automatic				
	Details: Transparent sticker in matt fin. with digital colour			ONLY"			Door Operator Manual				
	print.	please do not block the door 請勿阻礙開門		Details: Transparent sticker in matt fin. with digital	VISITOR ONLY 訪客專用		Details : Paper with Lamination	LTa of Abertisen Trade Testing and Training Centre (ATTC)			
	Size : 110mm x 35mm	明 勿 阻 贼 册 门		colour print. Size: 140mm x 50mm	100 日 号 用		Size : 105mm x 148mm	No. 55 You Knowing Road, Albertheen, Hong Knog			
				0120 : 14011111 X 0011111			Olze . Toomin x 14omin	The does are only be agreed on the found Carl OCT The does an operand and remains in the upper possible. Modern to be some and remains in the upper possible. Modern to be some one manually operand and climated. Description of the Carl AMALES.			
	Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)			STOR CHEY - East the request (connectly) ON XEY - Confirm the settledate (ii) ARROW XEY-1 - State the symbol			
SG-17	Sticker for Litter Bin		SG-22	Sticker for "STAFF				ORGANION RESTANT OPPOS - RECURITY			
	Details : Transparent sticker in matt fin. with digital			ONLY"				○ - 			
	colour print.	LITTER BIN		Details: Transparent sticker in matt fin. with digital	STAFF ONLY 職員專用			3,300,000			
	Size : 62mm x 20mm	廢 物 箱		colour print. Size: 140mm x 50mm	職具專用						
				5126 . 140Hill X 30Hill							
	Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)			
SG-18	Sticker for Automatic		SG-24	Sticker for "Arrow"		SG-28	Steel Plate Auto Flush				
	Door			Details : Transparent sticker in matt fin. with digital				AUTO FLUSH 自 動 沖 水			
	Details: Transparent sticker in matt fin. with digital colour print.	AUTOMATIC DOOR 自動門 PLEASE DON'T PUSH THE DOOR PLEASE DON'T PULL THE DOOR		colour print. Size : 30mm x 30mm			Details: Hairline stainless steel sign with black etched letterings and symbols.				
	Size: 75mm x 155mm	請勿推門請勿拉門		Size . Summ x Summ			Size : 115mm x 115mm	手 動 沖 水 SELF-FLUSH			
		PLEASE BEWARE OF AUTOMATIC DOOR SWING OUT PLEASE BEWARE OF AUTOMATIC DOOR SWING OUT									
		֓֞֞֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֡֓֡֓֡֓֡֓֡֓֡		Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)			
		小心自動門掩出	SG-26	Sticker for "Electrical Hazard"	A	SG-29	Signage for Toilet Sign	(For Reference Only)			
				Details: Transparent sticker in matt fin. with digital colour print.			Details: Ceiling Mounted Triangular & Hairline stainless steel sign with light box				
				Size : 100 x 100mm	ELECTRICAL HAZARD 電力危險		Size: 402mm x 170mm				
	Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)		Submit Artwork by Contractor	(or equivalent)			

Project no: (325) in P/AE/PUR/AGC

SIGNAGE SCHEDULE / 05-SIS-03

Item	Description	Sample	Item	Description	Sample	ltem	Description	Sample	Item	Description	Sample
SG-30	Die-cut Toilet Sign										
	Details: 3mm thk. Die-cut stanless steel plate in hairline	J. J.									
	fin.	715									
	Size : 150mm x 60mm										
	Submit Artwork by Contractor	(or equivalent)									
SG-32		(or equivalent)	<u> </u>						<u> </u>		
	Room Plate										
	Details : Acrylic sheet sign with paint.	钾 安 400									
	Size : 297mm x 120mm	課室 CLASSROOM 409				•					
	Submit Artwork by Contractor	(or equivalent)									

Project no: (325) in P/AE/PUR/AGC

FURNITURE SCHEDULE / 05-FFS-01

Item	Description	Sample	Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
FF-09	Stackable Chair		FF-24	Pantry Chair							
FF-09/	Code : Postura Plus		FF-24/	Brand : HAY - AAC12							
	Colour : Grey			Size:510W x 505D x 785mmH							
				Seat Height : 460mm H							
				Shell : Solid-coloured ploypropylene							
	Supplier : Sebel Furniture			Shell Colour : Black							
	Contact : Ms. Zoe Leung Tel. : 2950 6333 / 9186 0282	(or equivalent)		Base : Soap treated oak							
FF-10	Eco Balance Desk				/ \						
FF-10	Code : Eco Balance Desk - Fixed Lid, T Leg			Fire-resistance : BS 7176	, , ,						
	Finishes - Smooth, durable,										
	long lasting P.E.T.desk surface. Hard wearing	1									
	powdercoat finish. Frame - Welded Steel.	1									
	Supplier : Sebel Furniture			SUPPLIER : BW Hong Kong							
	Contact : Ms. Zoe Leung Tel. : 2950 6333 / 9186 0282	(or equivalent)		CONTACT : Mr. Otto Yau TEL: 2121 8516	(or equivalent)						
FF-23	Ottoman		FF-25	Pantry Table							
11 23	Brand : HAY - Mags Ottoman		11 23	Table Top Size : 1200 mm Hexagon Shape x	NAME OF TAXABLE PARTY.						
	Size:1165W x 960D x 400mmH			50mm thk. in "Corian" OY-718 (Oyster)							
	Frabic : 133 - steelcut trio			Base : 316 Stainless Steel							
	Fire-resistance : BS 7176			Supplier : Roxy Hong Kong Ltd.	No.						
				Contact : Mr. Mark Tin Tel. : 3590 4422 / 9419 4581	(or equivalent)						
	SUPPLIER : BW Hong Kong										
	CONTACT : Mr. Otto Yau TEL: 2121 8516	(or equivalent)									

FURNITURE SCHEDULE / 05-FMS-01

Project no:	(325) ir	P/AE/PUR/AGC
i roject no. i	(323) 11	

Item	Description	Sample	Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
F-01	Panel Fabric fin.		F-05	Compactus fin.		F-15	Name Tab.				
	Location : General office			Series No. : Apple Green			Location : General Office				
	Series No. : Fabric AG - tungsten silver						Series No. : Silver				
	Supplier : POSH	斯利尼亚的洲 里亚克		Supplier : POSH			Supplier : POSH				
	Contact : Mr. Frankie Wong Tel. : 2169 9231 / 9181 1157	(or equivalent)		Contact : Mr. Frankie Wong Tel. : 2169 9231 / 9181 1157	(or equivalent)		Contact : Mr. Frankie Wong Tel. : 2169 9231 / 9181 1157	(or equivalent)			
F-02	Steel leg / pedestal fin.		F-06	Compactus Fin.							
	Location : SLS Table Frame / General Office /			Series No. : Silver							
	Meeting Room										
	Series No. : tungsten silver										
	Supplier : POSH Contact : Mr. Frankie Wong			Supplier : POSH Contact : Mr. Frankie Wong							
	Tel.: 2169 9231 / 9181 1157	(or equivalent)		Tel.: 2169 9231 / 9181 1157	(or equivalent)						
	Low Cabinet Top fin.		(F-08)	Seating Fin.							
	Location : General Office / Meeting Room			Location : All Area Series No. : CX-	TE						
				1MX1P1L1N7YFXMBKUVBK	-						
	Series No. : Queen Maple										
	Supplier : DOSH	Hallon al		Supplier : DOSLI							
	Supplier : POSH Contact : Mr. Frankie Wong	(or equivalent)		Supplier : POSH Contact : Mr. Frankie Wong	(or equivalent)						
F-04	Tel.: 2169 9231 / 9181 1157 Cabinet Paint Fin.	(or equivalent)	F-14	Tel.: 2169 9231 / 9181 1157 Cable Tray	(or equivalent)						
	Series No. : Silver		1-14	Location : General Office							
				Series No. : Silver							
				1							
	Supplier : POSH			Supplier : POSH							
	Contact : Mr. Frankie Wong Tel. : 2169 9231 / 9181 1157	(or equivalent)		Contact : Mr. Frankie Wong Tel. : 2169 9231 / 9181 1157	(or equivalent)						

Project no: (325) in P/AE/PUR/AGC

CCTV AND SECURITY SYSTEM SCHEDULE / 05-CSS-01

Item	Description	Sample	Item	Description	Sample	Item	Description	Sample
00.00	CCTV - IP Camera	AVIC: A	/00 dd	Exit Control Lock	More Prest is fast: ECL-230D			
(CS-02)	Model: "AXIS" Network Camera P-3365-V	AXIS	(CS-11)		Exit control lock - deadbolt			
	Details : - Fixed domes for any			Model: Detex - ECL-230D				
	environment with remote focus and zoom for Audio-in			Details : Alarm Panic Exit	EMERGENCY EXIT ONLY			
		HDTV		Control Lock, Short Bar	PUSH HERE ALARM WILL SOUND			
	Supplier : Jardine Eng. Corp. Ltd.	ONVIE						
	Contact: Mr. Gary Cheng Tel: 2807 4866 / 6656 1636	(or equivalent)						
	Microphone			Model : DDH-2250	EXIT CONTROL LOCKS ACCESSORY DDH-2250 DDH-2250 Existing all fourth but before			
(CS-05)	Model: "AXIS" Network T8351			Description : Double Door Holder (Double Door Only)	Double Door Holder als dates at facety face devices			
	Details : "AXIS" T83 Microphones, High-			i totali (2000) 2001 City)	mental.			
	performance all-around microphones				Dimensions			
	·				• 7 1/8" long x 2 1/4" deep x 2 7/8" high			
	Supplier : Jardine Eng. Corp. Ltd.			Supplier : Jardine Eng. Corp. Ltd.				
	Contact: Mr. Gary Cheng Tel: 2807 4866 / 6656 1636	(or equivalent)		Contact: Mr. Gary Cheng Tel: 2807 4866 / 6656 1636	(or equivalent)			
CS-06	Card Reader	GALLAGHER Gallagher's T20 Terminal provides additional functionality including:	CS-12	RFID Security				
C3-00	Model: Gallagher - T 20	Contemporary and intuitive user interface, with a 3.5° colour LED screen and large backlik keys Clear display icons for key access control tasks Support for the Cardax IV reader protocol, providing:	03-12/	Model: NetworX	*			
	Details : "Gallagher" T Series Reader with 3.5" col. LED	Card only and card + PIN access modes (including duress access support) Oual cardholder authentication		Details : RFID Skyguard				
	screen & large backlit keys	Terminal based access mode selection Door alarm zone arminglidisarming Superior ingress and impact protection PIP66 environmental protection and IKO9 for impact protection		Size: 700 x 200 x 50mm	REID REID			
		- (· · · · · · · · · · · · · · · · · ·						
	Supplier : Jardine Eng. Corp. Ltd.	\$ 1 F		Supplier : Jardine Eng. Corp. Ltd.				
	Contact: Mr. Gary Cheng Tel: 2807 4866 / 6656 1636	(or equivalent)		Contact: Mr. Gary Cheng Tel: 2807 4866 / 6656 1636	(or equivalent)			
CS-07	Card Reader	GALLAGHER						
	Model: Gallagher - T 12	Key features across the series include the						
	Details : "Gallagher" T Series	following: • Support for multiple card technologies including: Mifare DE EV3, Plus and Classic, as well as 125 kHz proximity technology						
	Reader	(T20.T12 and T11 multi technology readers only) Unparelleled reader durability and water / dust protection Environmentally friendly - RoHS compliant and designed for minimal power consumption						
		minimal power consumption - Backwards compatibility - the readers are compatible with Cardax IV enabled Gallagher Controller and GBUS URI hardware - Support for custom site encryption keys						
	Supplier : Jardine Eng. Corp. Ltd.	Support for custom site encryption keys Heartbeat monitoring to ensure reader status can be monitored in real time. Extensive range of reader mounting and protection accessories.						
	Contact: Mr. Gary Cheng Tel: 2807 4866 / 6656 1636	• Extensive range of reader mounting and protection accessories (UI EQUIVALELIL)						

Annex 4.00- Tender Drawing

of

Assignment Brief

Design, Project Management and Fitting Out Works

for

Trade Service Centre

of

Model Trade Test Centre

for

the Construction Industry Council

Tender Reference No.(325) in P / AE / PUR / AGC

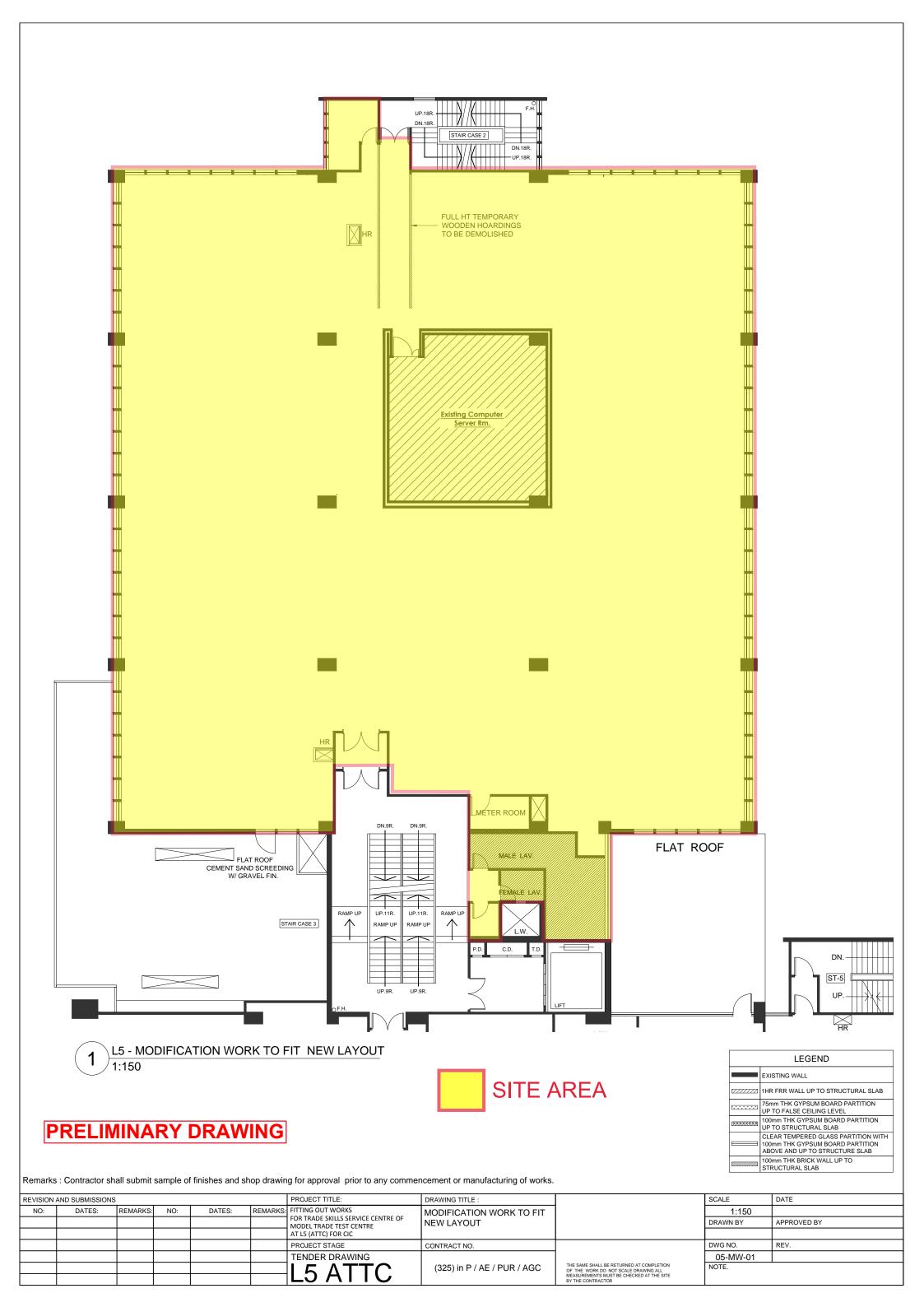


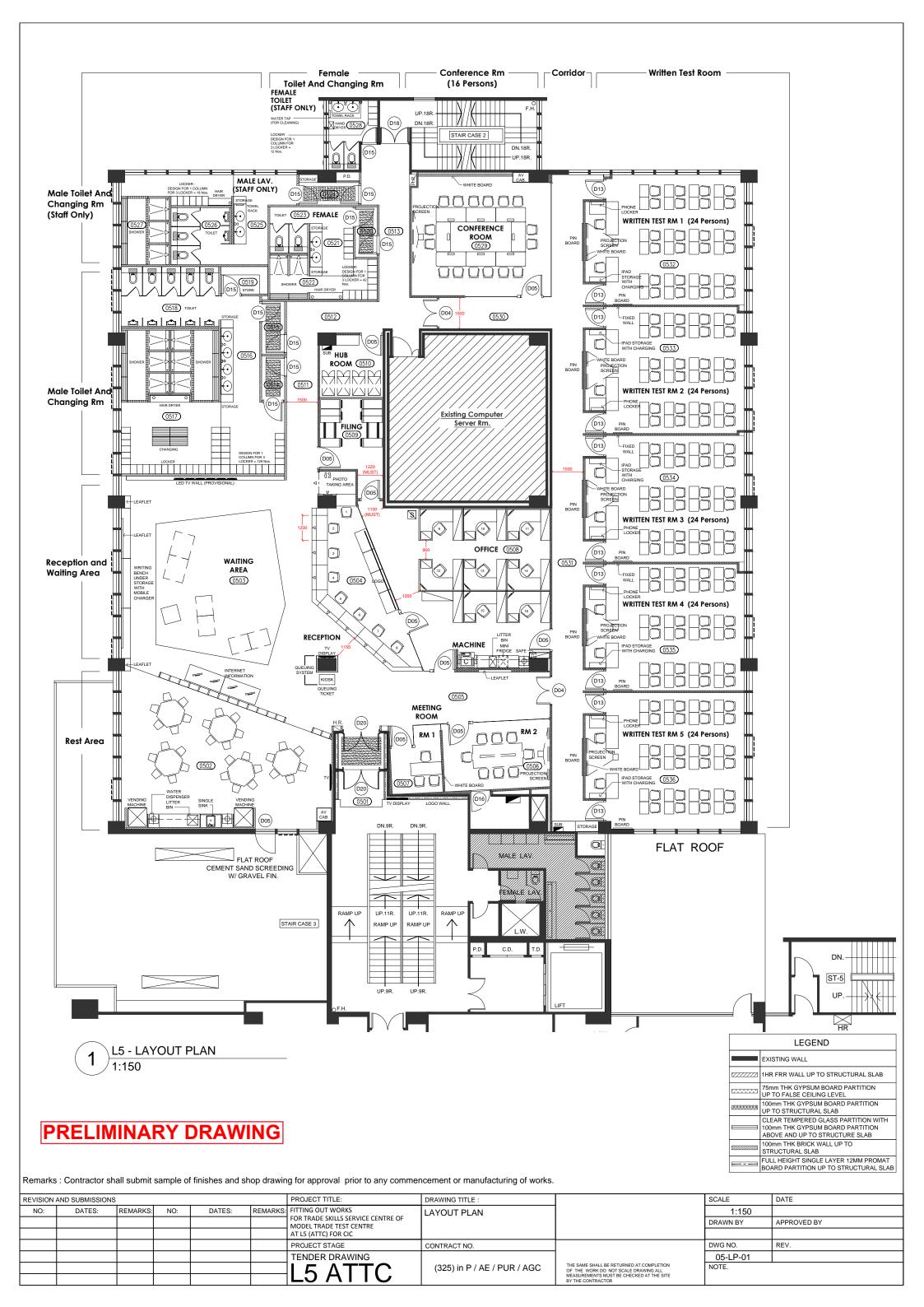
4.0 TENDER DRAWING - FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CONSTRUCTION INDUSTRY COUNCIL

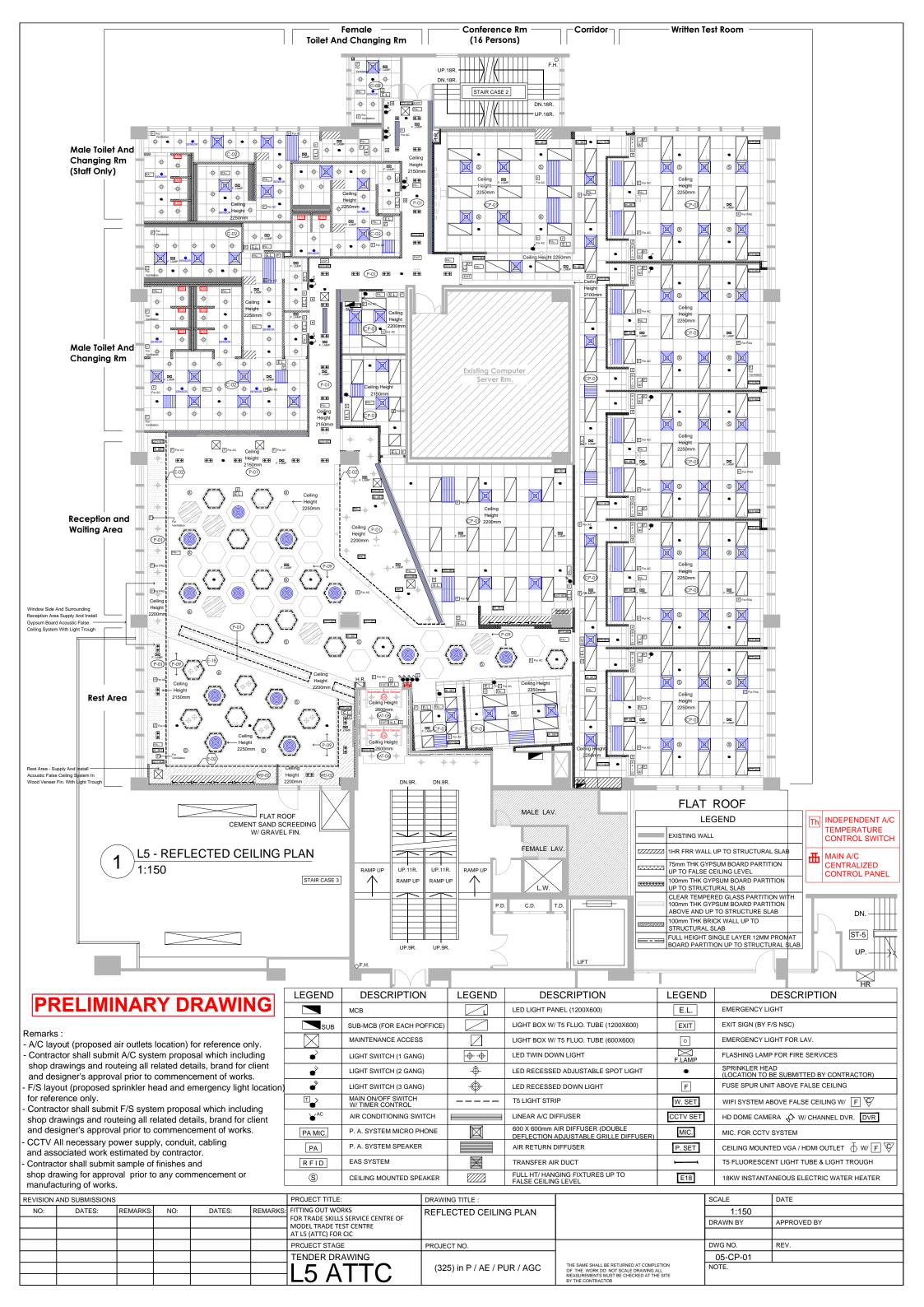
	L5 PLAN DRAWING			L5 PLAN DRAWING		L5 PERSPECTIVE			L5 OTHERS INFORMATION		
05-MW-01	MODIFICATION WORK TO FIT NEW LAYOUT	A3/ 1:150	05-EP-03	ELECTRICAL SCHEMATIC WIRING DIAGRAM, LEGEND & NOTES	A3/As Shown	05-IV-01	PERSPECTIVE - RECEPTION AND WAITING AREA	A3/As Shown	US-01	L5 UTILITY SURVEY LAYOUT PLAN	A3/As Shown
05-LP-01	LAYOUT PLAN	A3/ 1:150	05-PD-01	PLUMBING & DRAINAGE PLAN	A3/ 1:150	05-IV-02	PERSPECTIVE - RECEPTION AND WAITING AREA	A3/As Shown			
05-CP-01	REFLECTED CEILING PLAN	A3/ 1:150	05-PD-02	VERTICAL PLUMBING LINE DIAGRAM, PIPING NOTES & GENERAL NOTES.	A3/As Shown	05-IV-03	PERSPECTIVE - RECEPTION AND WAITING AREA	A3/As Shown			
05-AC-01	HVAC PLAN	A3/ 1:150	05-PD-03	LEGEND, NOTES, GENERAL NOTES, ABBREVIATION & MATERIAL SCHEDULE	A3/As Shown	05-IV-04	PERSPECTIVE - REST AREA	A3/As Shown			
05-AC-02	LOCATION PLAN OF NEW OUTDOOR COOLING TOWER AT L8A	A3/ 1:150	05-FP-01	FINISHES PLAN WITH DIMENSION	A3/ 1:150	05-IV-05	PERSPECTIVE - WRITTEN TEST ROOM	A3/As Shown			
05-AC-03	VRV SYSTEM SCHEMATIC DIAGRAM	A3/As Shown				05-IV-06	PERSPECTIVE - CHANGING, TOILET, LOCKER	A3/As Shown			
05-EP-01	ELECTRICAL PLAN	A3/ 1:150									
05-EP-02	ELECTRICAL ROUTING PLAN	A3/ 1:150									
L	5 ELEVATION DRAWIN	G	L	5 ELEVATION DRAWIN	IG		DETAILS DRAWING			DETAILS DRAWING	
05-E-01	ELEVATION - MAIN ENTRANCE 0501	A3/ 1:50	05-E-28	ELEVATION - MALE TOILET & 0516 0517 0518	A3/ 1:50	05-D-01	DETAILS - WALL SECTION	A3/As Shown	05-D-28	DETAILS - RECEPTION WRITING BENCH SECTION	A3/As Shown
05-E-02	ELEVATION - RECEPTION & 0503 0504 0505	A3/ 1:50	05-E-29	ELEVATION - MALE TOILET & 0516 0517 0518	A3/ 1:50	05-D-02	DETAILS - WALL SECTION	A3/As Shown	05-D-29	DETAILS - CORRIDOR SIGNAGE	A3/As Shown
05-E-03	ELEVATION - WAITING AREA 0503 0504 0505	A3/ 1:50	05-E-30	ELEVATION - MALE TOILET & 0516 0517 0518	A3/ 1:50	05-D-03	DETAILS - WRITE BOARD	A3/As Shown	05-D-30	DETAILS - CORRIDOR SIGNAGE	A3/As Shown
05-E-04	ELEVATION - WAITING AREA 0503 0504 0505	A3/ 1:50	05-E-31	ELEVATION - MALE TOILET & 0516 0517 0518	A3/ 1:50	05-D-04	DETAILS - WRITTEN TEST RM WINDOW SECTION	A3/As Shown	05-D-31	DETAILS - CORRIDOR SIGNAGE	A3/As Shown
05-E-05	ELEVATION - REST AREA 0502	A3/ 1:50	05-E-32	ELEVATION - MALE TOILET & 0516 0517 0518	A3/ 1:50	05-D-05	DETAILS - WRITTEN TEST RM WALL SECTION	A3/As Shown	05-D-32	DETAILS - FLOOR DRAINAGE SECTION FOR SHOWER AREA	A3/As Shown
05-E-06	ELEVATION - REST AREA 0502	A3/ 1:50	05-E-33	ELEVATION - MALE TOILET & CHANGING (0519	A3/ 1:50	05-D-06	DETAILS - WRITTEN TEST RM PHONE LOCKER	A3/As Shown	05-D-33	DETAILS - RECEPTION COUNTER	A3/As Shown
05-E-07	ELEVATION - MEETING RM 1 0507	A3/ 1:50	05-E-34	ELEVATION - FEMALE TOILET & 0520 CHANGING RM (SMELL LOBBY)	A3/ 1:50	05-D-07	DETAILS - WRITTEN TEST RM LECTURER'S DESK - A	A3/As Shown	05-D-34	DETAILS - RECEPTION COUNTER SECTION	A3/As Shown
05-E-08	ELEVATION - MEETING RM 2 0506	A3/ 1:50	05-E-35	ELEVATION - FEMALE TOILET & 0522 CHANGING RM 0522 0523		05-D-08	DETAILS - WRITTEN TEST RM LECTURER'S DESK - B	A3/As Shown	05-D-35	DETAILS - RECEPTION LOW CABINET	A3/As Shown
05-E-09	ELEVATION - OFFICE 0508	A3/ 1:50	05-E-36	ELEVATION - FEMALE TOILET & 0522 CHANGING RM 0522 0523		05-D-09	DETAILS - WRITTEN TEST RM IPAD'S STORAGE	A3/As Shown	05-D-36	DETAILS - RECEPTION CABINET FOR PHOTO TAKING	A3/As Shown
05-E-10	ELEVATION - OFFICE 0508	A3/ 1:50	05-E-37	ELEVATION - MALE TOILET & CHANGING (052) RM (SMELL LOBBY) STAFF ONLY	A3/ 1:50	05-D-10	DETAILS - TOILET & CHANGING RM BASIN CABINET 0516	A3/As Shown	05-D-37	DETAILS - RECEPTION CABINET FOR TV DISPL (QUEUING SYSTEM)	AY A3/As Shown
05-E-11	ELEVATION - FILING ROOM 0509	A3/ 1:50	05-E-38	ELEVATION - MALE TOILET & CHANGING 0525 RM (STAFF ONLY) 0526 0527		05-D-11	DETAILS - TOILET & CHANGING RM BASIN CABINET 0521	A3/As Shown	05-D-38	DETAILS - RECEPTION INTERNET INFORMATION	A3/As Shown
05-E-12	ELEVATION - HUB ROOM 0510	A3/ 1:50	05-E-39	ELEVATION - MALE TOILET & CHANGING 0525 RM (STAFF ONLY) 0526 0527		05-D-12	DETAILS - TOILET & CHANGING RM BASIN CABINET 0525	A3/As Shown	05-D-39	DETAILS - TOILET & CHANGING RM SEATING BENCH	A3/As Shown
05-E-13	ELEVATION - CORRIDOR 0511 0512	A3/ 1:50	05-E-40	ELEVATION - MALE TOILET & CHANGING 0525 RM (STAFF ONLY) 0526 0527		05-D-13	DETAILS - TOILET & CHANGING RM BASIN CABINET 0528	A3/As Shown	05-D-40	DETAILS - RECEPTION & REST AREA HEXAGOI	NAL M A3/As Shown
05-E-14	ELEVATION - CORRIDOR 0511 0512	A3/ 1:50	05-E-41	ELEVATION - MALE TOILET & CHANGING 0525 RM (STAFF ONLY) 0526 0527		05-D-14	DETAILS - TOILET & CHANGING RM BASIN CABINET SECTION	A3/As Shown	05-D-41	DETAILS - TOILET & CHANGING RM WALL MOUNTED URINAL DIVISOR	A3/As Shown
05-E-15	ELEVATION - CORRIDOR 0513	A3/ 1:50	05-E-42	ELEVATION - FEMALE TOILET (STAFF ONLY)	A3/ 1:50	05-D-15	DETAILS - TOILET CUBICAL	A3/As Shown			
05-E-16	ELEVATION - CONFERENCE RM 0529	A3/ 1:50				05-D-16	DETAILS - TOILET CUBICAL	A3/As Shown			
05-E-17	ELEVATION - CORRIDOR 0530	A3/ 1:50				05-D-17	DETAILS - TYPICAL S/S GLASS DOOR WITH COLUMN	A3/As Shown			
05-E-18	ELEVATION - CORRIDOR 0531	A3/ 1:50				05-D-18	DETAILS - OFFICE PANTRY CABINET	A3/As Shown			
05-E-19	ELEVATION - CORRIDOR 0531	A3/ 1:50				05-D-19	DETAILS - OFFICE PANTRY CABINET SECTION	A3/As Shown			
05-E-20	ELEVATION - CORRIDOR 0531	A3/ 1:50				05-D-20	DETAILS - REST AREA PANTRY CABINET	A3/As Shown			
05-E-21	ELEVATION - WRITTEN TEST RM 1 0532	A3/ 1:50				05-D-21	DETAILS - REST AREA PANTRY CABINET SECTION	A3/As Shown			
05-E-22	ELEVATION - WRITTEN TEST RM 2 0533	A3/ 1:50				05-D-22	DETAILS - MAIN ENTRANCE WALL SECTION	A3/As Shown			
05-E-23	ELEVATION - WRITTEN TEST RM 3 0534	A3/ 1:50				05-D-23	DETAILS - MAIN ENTRANCE FEATURE CEILING SECTION	A3/As Shown			
05-E-24	ELEVATION - WRITTEN TEST RM 4 0535	A3/ 1:50				05-D-24	DETAILS - FIRE HOSE REEL DOOR	A3/As Shown			
05-E-25	ELEVATION - WRITTEN TEST RM 5 0536	A3/ 1:50				05-D-25	DETAILS - REST AREA DECORATION WALL	A3/As Shown			
05-E-26	ELEVATION - MALE TOILET & CHANGING 0514	A3/ 1:50				05-D-26	DETAILS - RECEPTION LEAFLET RACK (COLUMN)	A3/As Shown			
05-E-27	ELEVATION - MALE TOILET & CHANGING 0515	A3/ 1:50				05-D-27	DETAILS - RECEPTION LEAFLET RACK	A3/As Shown			

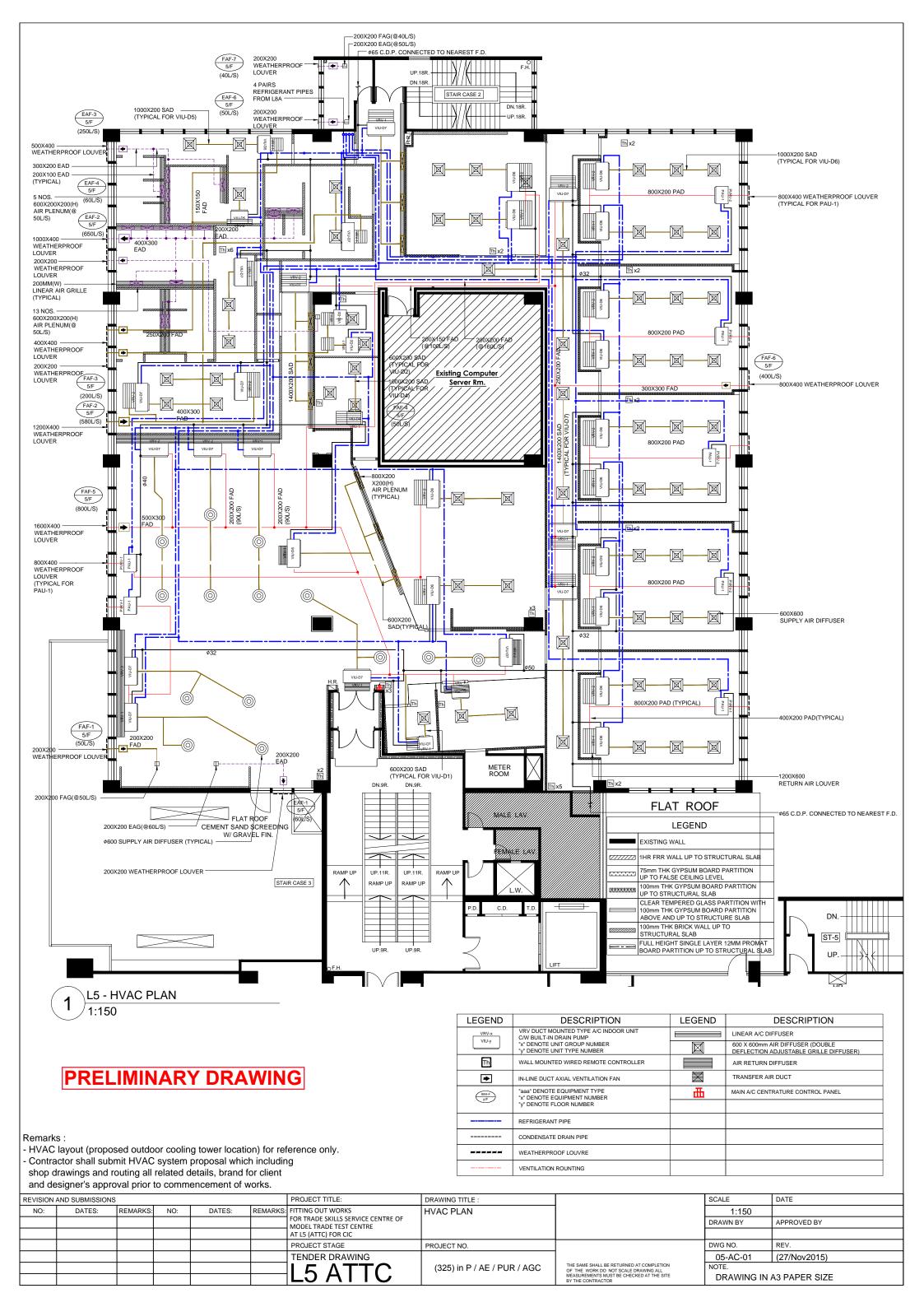
NO:	DAI	ES:	REMARKS
THE SAME SHALL OF THE WORK MEASUREMENT SYTHE CONTROL	L BE RETURNE DO NOT SCALI S MUST BE CHE	D AT COMPLE E DRAWING AL ECKED AT THE	TION L SITE
PROJECT T			
FITTING C SKILLS SEF TRADE TE FOR CIC	RVICE CEI	NTRE OF	MODEL
PROJECT :	STAGE		
TENDER	DRAW	ING	
L5	AT	TC	
DRAWING	TITLE :		
DRAWIN	GLIST		
DIOWIN			
	T NO. in P / AE	E / PUR	/ AGC
SCALE		DATE	
DRAWN BY	,	APPROV	ED BY
DWG NO.		REV.	
DL-01			/
NOTE: DR	RAWING	IN A3 PA	PER SIZI

REVISION AND SUBMISSIONS

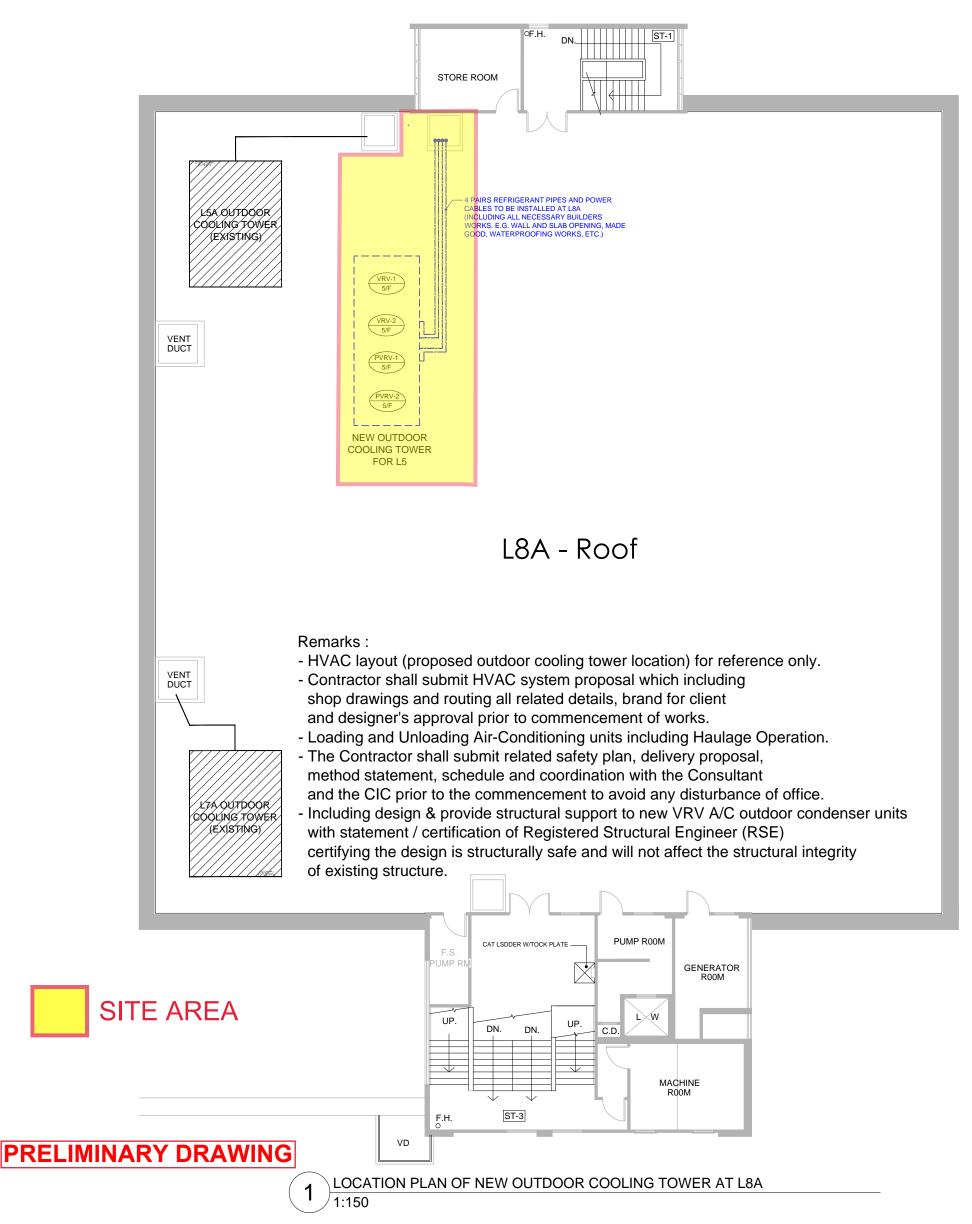








FOR REFERENCE ONLY (NOT TO SCALE)



Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

REVISION AND SUBMISSIONS					PROJECT TITLE:	DRAWING TITLE :		SCALE	DATE
NO:	DATES:	REMARKS:	NO:	DATES:	FITTING OUT WORKS	LOCATION PLAN OF		1:150	
					FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE	NEW OUTDOOR COOLING	1	DRAWN BY	APPROVED BY
					AT L5 (ATTC) FOR CIC	TOWER AT L8A			
					PROJECT STAGE	PROJECT NO.		DWG NO.	REV.
					TENDER DRAWING			05-AC-02	
						(325) in P / AE / PUR / AGC	THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR	NOTE. DRAWING IN A3 PAPER SIZE	
					LSAIIC				

- THESE DRAWINGS ARE FOR TENDER AND CONTRACT PURPOSES ONLY.
- THE CONTRACTOR SHALL SUBMIT THE INSTALLATION DETAILED DRAWINGS TO THE CONSULTING ENGINEERS FOR COMMENT/ APPROVAL BASING ON ACTUAL EQUIPMENT TO BE INSTALLED. ALL DRAWINGS MUST BE DETAILED, DIMENSIONED SHOWING CONSTRUCTION SIZE, WEIGHT, ARRANGEMENT, OPERATING CLEARANCE, PERFORMANCE CHARACTERISTICS AND NECESSARY BUILDER'S WORK INVOLVED.
- PHYSICAL SIZES OF ALL PLANTS AND EQUIPMENT ARE TO BE SUITABLE FOR THE SPACE ALLOCATED FOR THE ACCOMMODATION OF SUCH PLANTS AND EQUIPMENT, TAKING INTO ACCOUNT THE REQUIREMENT FOR ACCESS FOR MAINTENANCE PURPOSE.
- PRIOR TO THE COMMENCEMENT OF ANY SITE WORK, SAMPLES OF THE FOLLOWING MATERIALS WHERE APPLICABLE SHALL BE SUPPLIED TO THE ARCHITECT FOR APPROVAL: SHEET METAL, INSULATION MATERIALS, DUCT LINER, ELECTRICAL CABLES, MATERIAL FOR SUPERVISORY PANEL AND INDICATING LAMP, SUPPORTING HANGERS, ELECTRICAL CONDUITS, PIPING MATERIAL AND PIPING FITTING AND ANY OTHER SPECIFIED ITEMS WHICH THE CONSULTING ENGINEERS MAY REQUEST.
- DURING THE PROGRESS OF WORK, ALL OPEN ENDS OF PIPES, CONDUITS, DUCT ETC. SHALL BE SUITABLY CAPPED TO PREVENT THE INGRESS OF FOREIGN MATTER.
- ALL ANTI-VIBRATION MOUNTS FOR EQUIPMENT SHALL BE OF SPRING TYPE UNLESS OTHERWISE SHOWN ON DRAWINGS.
- SIZE OF CONDENSATE DRAIN PIPE SHALL BE MINIMUM \$25mm.
- THE FALL OF ALL HORIZONTAL RUN CONDENSATE DRAIN PIPES SHALL NOT BE LESS THAN 1 IN 100.
 FOR PIPES, SLEEVES AND DUCTS THROUGH FIRE BARRIERS THE GAP BETWEEN THE PIPES AND ITS SLEEVES, AND THE GAP BETWEEN THE DUCTS AND FIRE BARRIERS MUST BE FIRMLY SEALED WITH SOFT PACKING HAVING A PERIOD OF FIRE RESISTANCE EQUAL TO THE FIRE BARRIERS. DETAILS OF PIPES AND DUCTS THROUGH WALL AND FLOOR TO BE PROVIDED BY THE SUB-CONTRACTOR AND APPROVED BY THE CONSULTING ENGINEERS BEFORE INSTALLATION.

 10) INSULATION FOR PIPES AT POINTS WHERE THEY PASS THROUGH FIRE BARRIERS MUST HAVE A PERIOD OF FIRE RESISTANCE EQUAL TO THE FIRE BARRIERS.
- 11) WHERE A DUCT WITH INSULATION PASS THROUGH A FIRE BARRIER AND IS PROVIDED WITH A FIRE DAMPER, THE EXTERNAL INSULATION MUST HAVE A PERIOD OF
- FIRE RESISTANCE EQUAL TO THE FIRE BARRIER. 12) UNLESS OTHERWISE NOTED ON THE DRAWINGS, SIZE OF SUPPLY AND RETURN AIR DUCTS SHALL BE THE SAME AS THE DISCHARGE AND SUCTION COLLAR OF THE
- RESPECTIVE DUCT TYPE A/C UNIT.

 13) SIZE OF GRILLES, LOUVRES OR DIFFUSERS SHOWN ARE FACE SIZE UNLESS OTHERWISE SPECIFIED.
- 14) SIZE OF ALL BRANCH DUCTS TO GRILLES, LOUVRES OR DIFFUSERS SHOULD BE THE SAME AS THE NECK SIZE OF THE RESPECTIVE GRILLES, LOUVRES OR DIFFUSERS UNLESS OTHERWISE SPECIFIED.
- 15) ALL FRESH/SUPPLY/PRIMARY AIR BRANCH DUCTS FROM MAIN/SUB-MAIN DUCT SHOULD BE PROVIDED WITH ADJUSTABLE SPLITTER VANES.
- 16) ALL PRIMARY AIR BRANCH DUCT TO EACH ZONE OF A/C UNIT SHOULD BE PROVIDED WITH BUTTERFLY TYPE VOLUME CONTROL DAMPER.
 17) ALL AIR BOOTS SHALL BE COMPLETED WITH INSULATION & VOLUME CONTROL DAMPER. 18) AFTER ATTACHMENT OF AIR PLENUM ON EXHAUST AND/OR INTAKE LOUVRE, ALL SURPLUS EXHAUST AND/OR INTAKE LOUVRE SHALL BE BLANK OFF BY 3MM THICK
- MATT BLACK FINISHES ALUMINIUM SHEET BY THIS CONTRACTOR.

 19) WHEREVER CONDENSATE DRAIN PIPE IS CONNECTED TO THE DRAINAGE PIPING SYSTEM (e.g. RAIN WATER PIPE). A TRAP WITH 80 WATER SEAL AND VENTED BY
- MEANS OF ANTI-SYPHONAGE PIPE SHALL BE SUPPLIED AND INSTALLED BY THIS CONTRACTOR.

 20) ALL A/C UNIT WITH DUCTWORK SHALL BE PROVIDED WITH ACCESS PANEL OF ADEQUATE DIMENSIONS TO ALLOW DISMANTLING OF BLOWER DECK.

 21) ALL REFRIGERANT PIPE SIZES SHALL BE COMPLY WITH MANUFACTURER'S REQUIREMENTS.

- 22) SLIM DUCT SHALL BE SUPPLIED AND INSTALLED FOR ALL REFRIGERANT PIPE AND CONDENSATE DRAIN PIPE EXPOSED TO VIEW CONDITION BY THIS CONTRACTOR. 23) THE CONTRACTOR SHALL SUPPLY AND INSTALL ALUMINIUM BLANK OFF-PLATE PAINTED MATT BLACK FINISHES FOR THE DUMMY AIR GRILLE, LOUVER OR DIFFUSER.
- 24) KED SHALL BE STAINLESS STEEL TYPE.

<u>L6</u>

<u>L5</u>

CIRCULATION

- 25) ALL STAINLESS STEEL FOR KED OR EXHAUST HOOD SHALL BE GRADE 316.
 26) FAD RUN IN AIR-CONDITIONED AREA SHALL BE INSULATED WITH FIBERGLASS THERMAL INSULATION. WHEN FAD IS EXPOSED TO VIEW, IT SHALL BE ENCLOSED BY ALUMINUM CLADDING.
- 27) ALL SPLIT A/C & VRV A/C UNIT SHALL BE OF HEAT PUMP FOR HEATING AS WELL.
 28) THE FALSE CEILING HEIGHT IN DORMITORY SHALL BE 2500MM(H) MINIMUM. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT THE MODIFICATION OF THE EXISTING E&M SERVICES TO SUIT.
- 29) ALL SURFACE/CONCEALED CONDUIT SYSTEM SHALL BE STEEL PIPES TO BS 4568 : PART 1. CONCEALED CONDUIT SYSTEM SHALL BE ADOPTED FOR AREA WITH NEW
- 30) THIS CONTRACTOR SHALL SUPPLY AND INSTALL Ø1MM STAINLESS STEEL WIRE MESH (12MMX12MM MESH) FOR ALL LOUVER FOR FRESH AIR INTAKE AND EXHAUST PURPOSE. FOR THOSE SURPLUS LOUVER SHALL BE BLANK-OFF BY 3MM THICK ALUMINUM PLATE BY THIS CONTRACTOR.

Th

LOCKER, TOILET (STAFF ONLY)

MALE LAV

FEMALE CHANGING

WAITING AREA

RECEPTION

Th

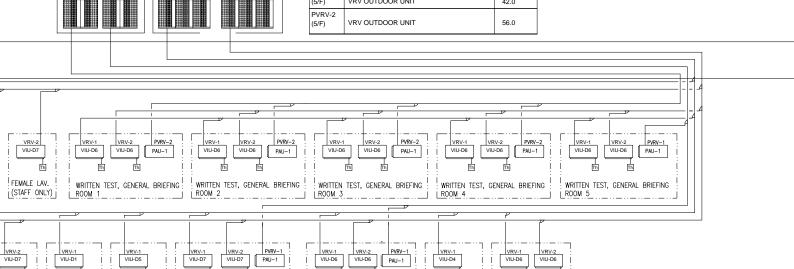
31) ALUMINUM WIRE WASHABLE FILTER (25MM THICK) SHALL BE PROVIDED BY THIS CONTRACTOR FOR ALL FRESH AIR INTAKE DUCTWORK COMPLETE WITH ACCESS FOR REMOVAL OF FILTER FOR CLEANING.

LEGEND:

SYMBOL	DESCRIPTION
VRV-x VIU-y	VRV DUCT MOUNTED TYPE A/C INDOOR UNIT C/W BUILT-IN DRAIN PUMP "x" DENOTE UNIT GROUP NUMBER "y" DENOTE UNIT TYPE NUMBER
	VRV A/C OUTDOOR UNIT (HEAT PUMP)
7	REFRIGERANT PIPE TEE-OFF PIPE JOINT
aaa-x y/F	"aaa" DENOTE EQUIPMENT TYPE "x" DENOTE EQUIPMENT NUMBER "y" DENOTE FLOOR NUMBER
	REFRIGERANT PIPE
	CONDENSATE DRAIN PIPE

DAIKIN VRV X-SERIES A/C UNIT SCHEDULE

TYPE	DESCRIPTION	COOLING
		KW
VIU-D1	DUCT TYPE INDOOR UNIT C/W CONDENSATE DRAIN PUMP	2.8
VIU-D2	DUCT TYPE INDOOR UNIT C/W CONDENSATE DRAIN PUMP	3.6
VIU-D3	NOT USED	
VIU-D4	DUCT TYPE INDOOR UNIT C/W CONDENSATE DRAIN PUMP	5.6
VIU-D5	DUCT TYPE INDOOR UNIT C/W CONDENSATE DRAIN PUMP	7.1
VIU-D6	DUCT TYPE INDOOR UNIT C/W CONDENSATE DRAIN PUMP	9
VIU-D7	DUCT TYPE INDOOR UNIT C/W CONDENSATE DRAIN PUMP	11.2
PAU-1	DUCT TYPE INDOOR UNIT FOR PRETREAT FRESH AIR C/W CONDENSATE DRAIN PUMP (300L/S)	14
PAU-2	DUCT TYPE INDOOR UNIT FOR PRETREAT FRESH AIR C/W CONDENSATE DRAIN PUMP (540L/S)	28
VRV-1 (5/F)	VRV OUTDOOR UNIT	176.6
VRV-2 (5/F)	VRV OUTDOOR UNIT	174.5
PVRV-1 (5/F)	VRV OUTDOOR UNIT	42.0
PVRV-2 (5/F)	VRV OUTDOOR UNIT	56.0



_____FILING AREA__

SCHEMATIC DIAGRAM OF VRV SYSTEM

OFFICE

MEETING RM 2 REST AREA

_5

MEETING RM 1



HUB ROOM

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

CONFERENCE ROOM

REVISION AND SUBMISSIONS NO: DATES: REMARKS

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

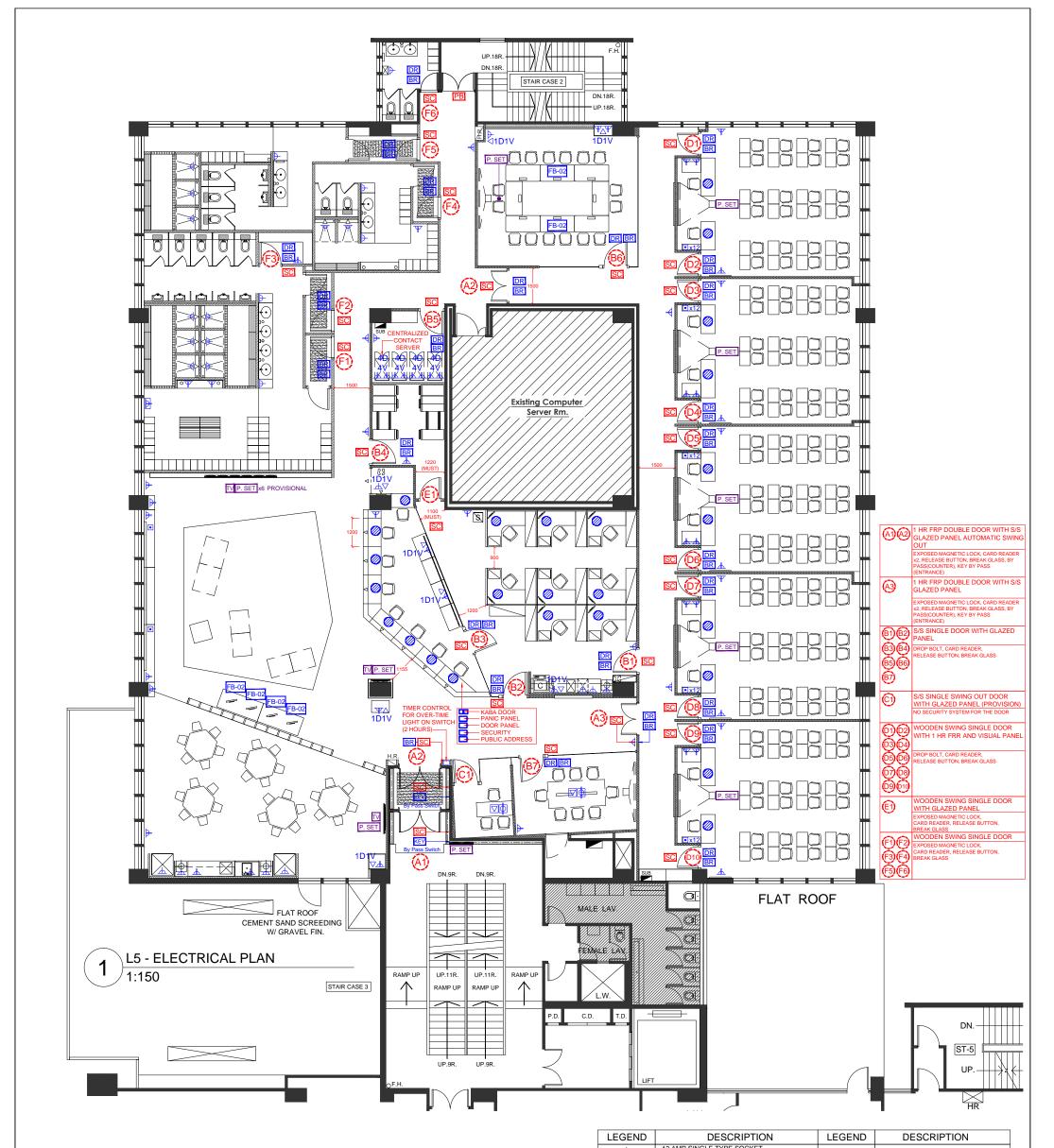
AS FITTED DRAWING

DRAWING TITLE

VRV SYSTEM SCHEMATIC DIAGRAM

PROJECT NO. (325) in P / AE / PUR / AGC

Not To Scale APPROVED BY DRAWN BY DWG NO. REV. 05-AC-03



Remarks:

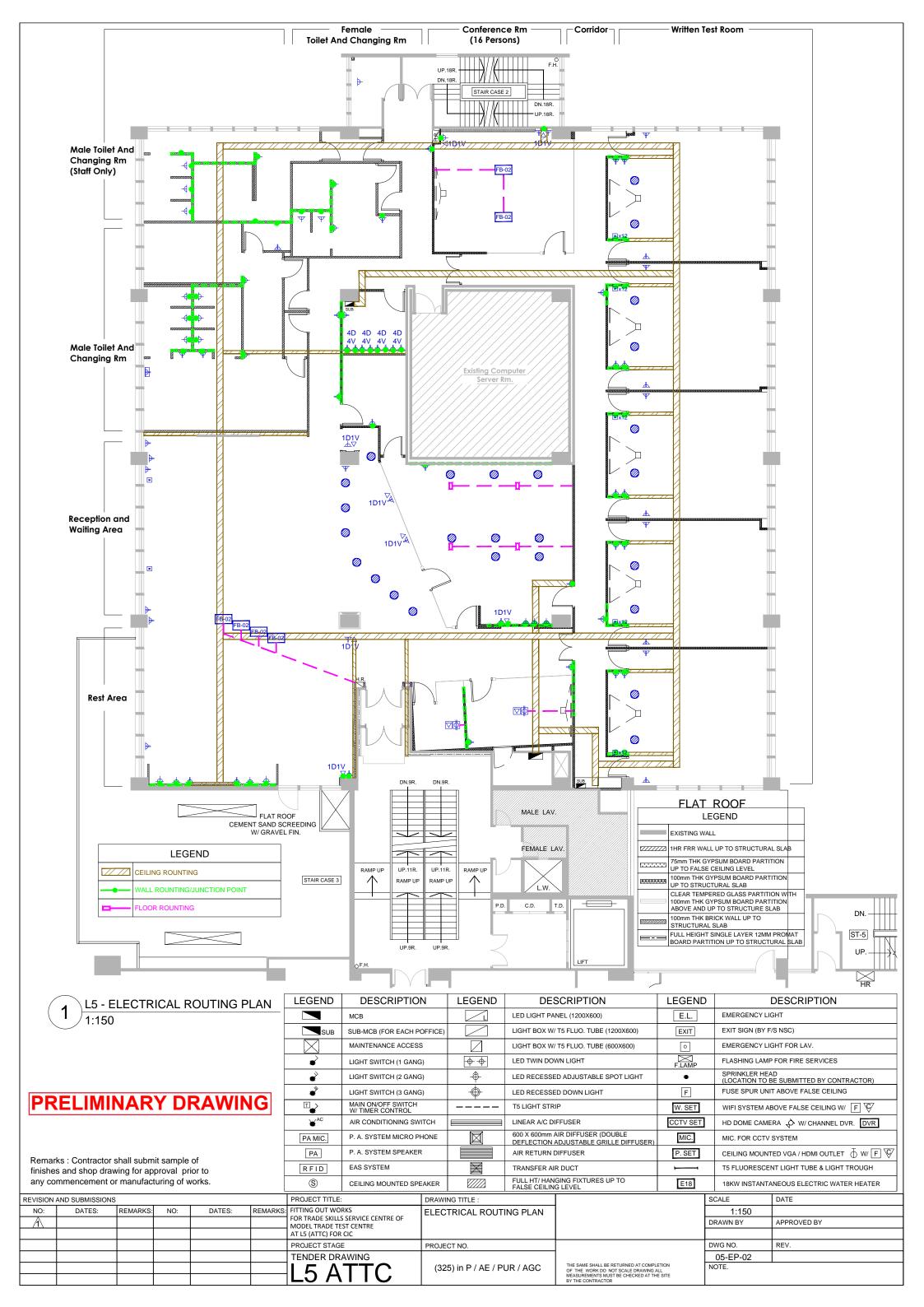
- Smart card, locks, release button, door contact and push bar supplied & installed by other vendor.
- Vendor should submitted details, lock size, installation method for designer & client's approval.
- Drawing shows the location and for reference only

	EXISTING WALL
	1HR FRR WALL UP TO STRUCTURAL SLAB
	75mm THK GYPSUM BOARD PARTITION UP TO FALSE CEILING LEVEL
EXXXXXXXX	100mm THK GYPSUM BOARD PARTITION UP TO STRUCTURAL SLAB
	CLEAR TEMPERED GLASS PARTITION WITH 100mm THK GYPSUM BOARD PARTITION ABOVE AND UP TO STRUCTURE SLAB
	100mm THK BRICK WALL UP TO STRUCTURAL SLAB
	FULL HEIGHT SINGLE LAYER 12MM PROMAT BOARD PARTITION UP TO STRUCTURAL SLAB

LEGEND

_ Д	13 AMP SINGLE TYPE SOCKET (WALL MOUNTED ABOVE SKIRTING)	DR	DOOR RELEASE BUTTON	
\forall	13 AMP TWIN TYPE SOCKET (WALL MOUNTED ABOVE SKIRTING)	BR	BREAK GLASS	
Ф	13 AMP SINGLE TYPE SOCKET (FLOOR MOUNTED)	SC	SMART CARD READER	
Ф	13 AMP TWIN TYPE SOCKET (FLOOR MOUNTED)	DC	DOOR CONTACT	
∇	WALL MOUNTED VOICE / DATE OUTLET	РВ	PUSH BAR ALARM	
	FLOOR MOUNTED VOICE / DATE OUTLET	DB	DOOR BELL	
□→	TIMER CONTROL FOR OVER-TIME LIGHT ON SWITCH (2 HOURS)	TCB	TCB (TIMER CONTROL BOX)	
TV	TV ANTENNA POINT	P.SET	CEILING MOUNTED VGA / HDMI	
0		P.SET	OUTLET \bigoplus W/ F	
	MAIN MCB	FB-02	FLOOR BOX WITH TWIN SOCKET /	
SUB	SUB-MCB	FB-02	POINT/ HDMI POINT / MIC POINT	
Ф	WALL MOUNTED VGA / HDMI POINT			
В	USB Power Plate			

REVISION AND SUBMISSIONS						PROJECT TITLE:	DRAWING TITLE :		SCALE	DATE			
		FITTING OUT WORKS ELECTRICAL PLAN		1:150									
						FOR TRADE SKILLS SERVICE CENTRE OF			MODEL TRADE SKILLS SERVICE CENTRE OF			DRAWN BY	APPROVED BY
						AT L5 (ATTC) FOR CIC							
			PROJECT STAGE	PROJECT NO.		DWG NO.	REV.						
			TENDER DRAWING	ER DRAWING		05-EP-01							
						1.5 ATTC	(325) in P / AE / PUR / AGC	THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL	NOTE.				
				MEASUREMENTS MUST BE CHECKED AT THE SITE									



LEGEND

LEGEN	LEGEND						
SYMBOL	DESCRIPTION						
EF	I.D.M.T EARTH FAULT RELAY						
OC	3-ELEMENT I.D.M.T. OVER-CURRENT RELAY						
(L)	INDICATING LAMP RED, YELLOW & BLUE						
î°.	TPN FUSESWITCH						
8°	TPN SWITCHFUSE						
ľ	TPN ISOLATOR						
∞	TPN HRC FUSE						
60	MCCB / MCB						
X	AIR CIRCUIT BREAKER						
\exists	CURRENT TRANSFOMER						
	KWH/MDI METER						
8	TRANSFORMER						
	STEEL WIRE ARMOURED CABLE						
	MINIATURE CIRCUIT BREAKER BOARD						
	MCCB BOARD						
-•	EARTHING TERMINAL						
	PLUG-IN UNIT WITH MCCB						
DA	ELECTRICAL DIGITAL NETWORK ANALYZER						
UV	UNDERVOLT RELAY						
*-	4-POLES CHANGEOVER CONTACTOR C/W E & M INTERLOCK DEVICE						
DA H	ELECTRICAL DIGITAL NETWORK ANALYZER FOR MEASURING VOLTAGES (PHASE-TO-PHASE AND PHASE-TO-NEUTRAL), CURRENTS (THREE PHASES AN NEUTRAL, TOTAL POWER FACTOR, TOTAL KWH, MAXIMUM KVA AND TOTAL HARMONIC DISTORTION						

FINAL/SUB-CIRCUIT CABLE SIZES

HRC		MIN. CABLI	E SIZE		
FUSE/ MCB RATING		NORMAL SUPPLY	ESSENTIAL SUPPLY		
		(1/C PVC CU. CABLE)	(1/C FIRE RESISTANT CABLE TO BS 6387 CAT. CWZ		
5A & 10A		2 x 1.5mm ²	2 x 1.5mm ²		
15A		2 x 2.5mm ²	2 x 2.5mm ²		
20A		2 x 4 mm ²	2 x 4 mm ²		
	SP & N	2 x 6 mm ²	2 x 6 mm ²		
32A		4 x 2.5 mm ² (FOR RING CIRCUIT)	4 x 2.5 mm ² (FOR RING CIRCUIT)		
		2 x 4 mm f/C (FOR RADIAL CIRCUIT)	2 x 4 mm ² /C (FOR RADIAL CIRCUIT)		
16A/20A		4 x 4 mm ²	4 x 4 mm ²		
32A	z	4 x 6 mm ²	4 x 6 mm ²		
63A	TP &	4 x 16 mm ²	4 x 16 mm ²		
100A	-	4 x 35 mm ²	4 x 35 mm ²		
160A		4 x 70 mm ²	4 x 70 mm ²		
200/250A		4 x 95 mm ²	4 x 95 mm ²		
400A		4 x 240 mm ²	4 x 240 mm ²		

NOTES:

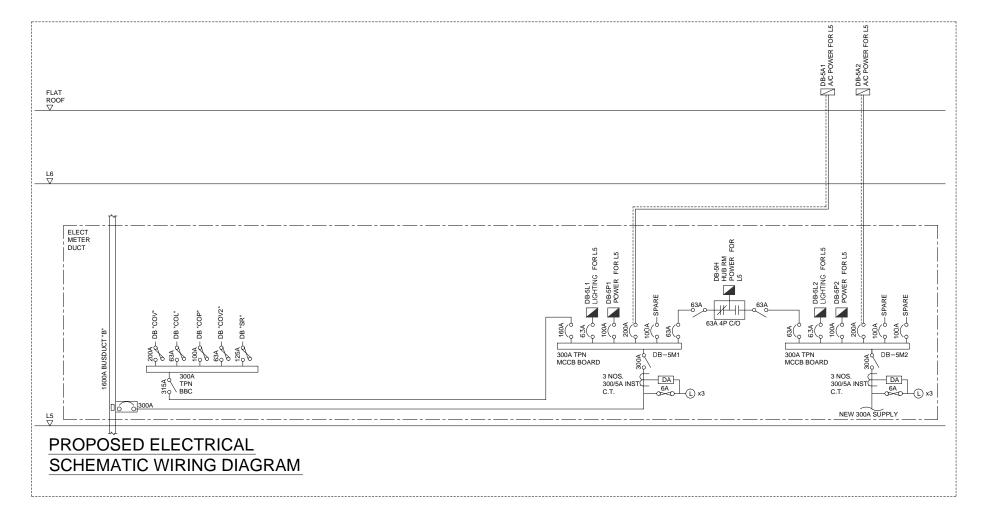
1. BUSBAR CHAMBER WITH ADEQUATE PRE-DRILLED HOLES TO TERMINATE ALL POTENTIAL CONSUMERS. BUSBAR CHAMBER TO B.S. 5486 PART 1 ASTA APPROVED TYPE AS "VIKINGS" OR EQUIVALENT. (600 mm MIN. LENGTH)

2. ALL ELECTRICAL ACCESSORIES SHOULD BE TPN TYPE UNLESS SPECIFIED.

3. ALL CONDUIT SYSTEM SHALL BE ADOPTED AND USING STEEL PIPES TO BS 4568 : PART 1.

4. ALL CABLE FOR ESSENTIAL SUPPLY SHALL BE FIRE RESISTANCE, LSOH, TO BS6387 CAT CWZ.

	ELECT METER DUCT	:T.B.	200A - DB 'COV" 63A - DB 'COL" 100A - DB 'COV" 63A - DB 'SR"
SC		IN MA	G ELECTRICAL ATIC WIRING



PRELIMINARY DRAWING

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

REVISION	AND SUBMISSIONS	
NO:	DATES:	REMARKS:
l		

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

AS FITTED DRAWING

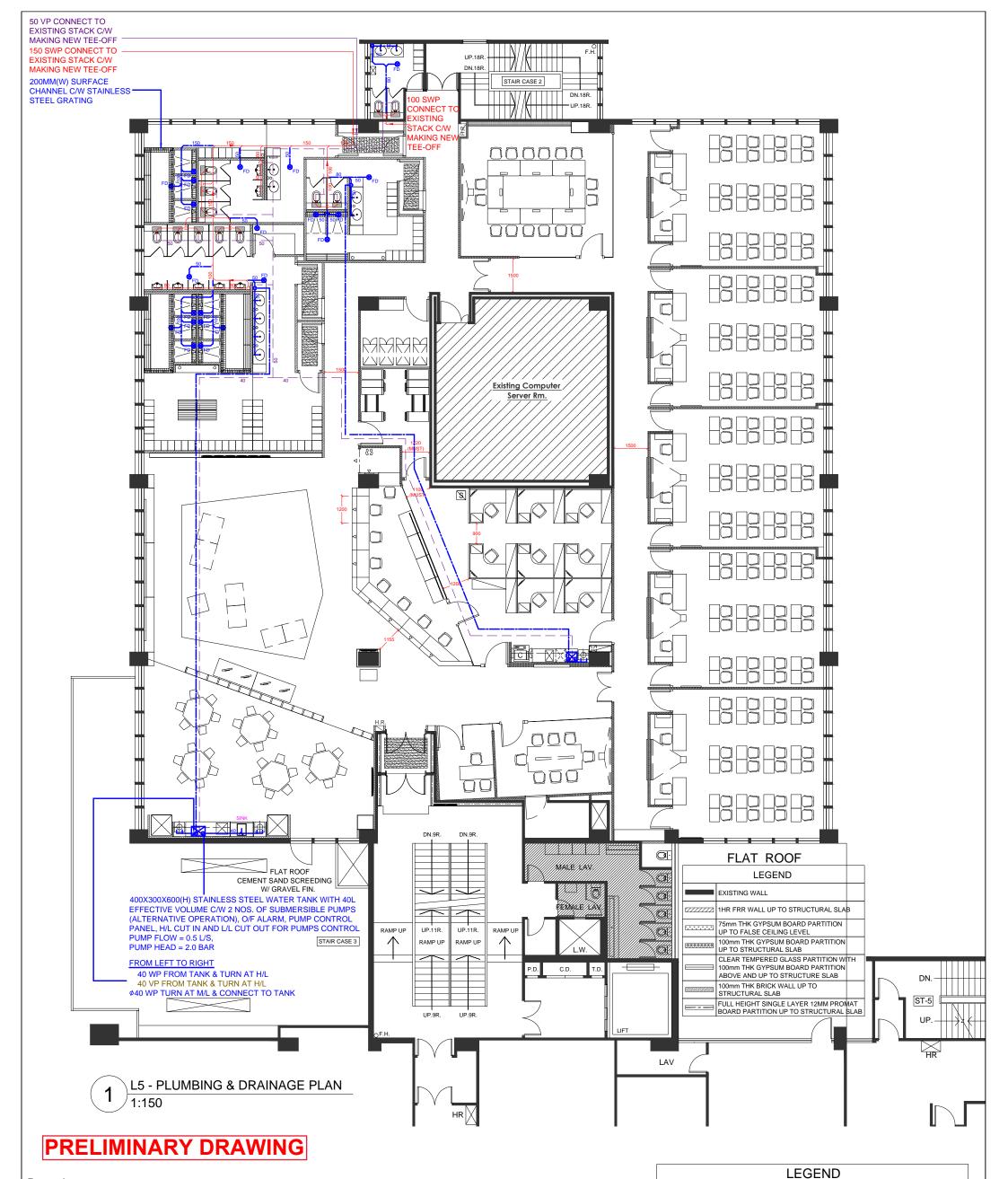
L5-ATTC

DRAWING TITLE :

ELECTRICAL SCHEMATIC WIRING DIAGRAM, LEGEND & NOTES

PROJECT NO. (325) in P / AE / PUR / AGC

SCALE	DATE
Not To Scale	
DRAWN BY	APPROVED BY
DWG NO.	REV.
05-EP-03	/



Remarks:

- P/D layout (proposed sump tank, copper water supply pipe w/valve and PVC drainage pipe location) for reference only.
- Contractor should submit P/D system proposal which including shop drawings and routeing all related details, brand for client and designer's approval prior to commencement of works.

	WP	WASTE PIPE
	SWP	SOIL & WASTE PIPE
	ASP/VP	ANTI-SIPHONAGE PIPE/VENT PIPE
FD	FD	FLOOR DRAIN W/ ANTI-SYPHONAGE TRAP

REVISION AND SUBMISSIONS			PROJECT TITLE:	DRAWING TITLE :		SCALE	DATE								
NO:	DATES:	REMARKS:	NO:	DATES:		FITTING OUT WORKS	PLUMBING		1:150						
						FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE			MODEL TRADE TEST CENTRE		IX DRAINAL	& DRAINAGE PLAN		DRAWN BY	APPROVED BY
						AT L5 (ATTC) FOR CIC									
						PROJECT STAGE	PROJECT NO.		DWG NO.	REV.					
						TENDER DRAWING			05-PD-01						
							(325) IN P / AE / PUR / AGC OF THE WORK DO NOT SCALE DRAN	THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL	INOTE.						
						LSAIIC		MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR							

PIPING NOTES:

1) PIPEWORK MATERIALS FOR POTABLE WATER SUPPLY SHALL BE AS FOLLOWS:

APPLICATION	SIZE	MATERIAL
POTABLE WATER PIPE	ABOVE & INCLUDING Ø80	DUCTILE IRON PIPES TO BS EN 545, CLASS K-12 WITH INTERNAL LINING, 'FLANGED JOINT'
	UP TO AND INCLUDING	HALF HARD COPPER PIPES TO BS EN1057 (TABLE 3 R250) WITH PLASTIC COVER TO BS 3412 AND COPPER CAPILLARY FITTINGS TO BS EN 1254-1.
	∮ 65	HALF HARD COPPER PIPES TO BS EN1057 (TABLE 3 R250) WITH ELASTOMERIC THERMAL INSULATION OF NOT LESS THAN 9mm THICK CLASS O TO BS 476 PART 6 AND COPPER CAPILLARY FITTINGS TO BS EN 1254-1 FOR PIPEWORK INSIDE ENCLOSED CEILING VOID & BULKHEAD AREA
HOT WATER PIPE	UP TO AND INCLUDING Ø65	HALF HARD COPPER PIPES TO BS EN1057 (TABLE 3 R250) WITH CORRUGATED PLASTIC COVER TO BS 3412 AND COPPER CAPILLARY FITTINGS TO BS EN 1254-1 FOR CONCEALED PIPEWORK.
		HALF HARD COPPER PIPES TO BS EN1057 (TABLE 3 R250) WITH ELASTOMERIC THERMAL INSULATION OF NOT LESS THAN 13mm THICK CLASS O TO BS 476 PART 6 AND COPPER CAPILLARY FITTINGS TO BS EN 1254-1 FOR EXPOSED PIPEWORK INCLUDED INSIDE ENCLOSED CEILING VOID & BULKHEAD AREA.
		HALF HARD COPPER PIPES TO BS EN1057 (TABLE 3 R250) WITH ELASTOMERIC THERMAL INSULATION OF NOT LESS THAN 13mm THICK CLASS O TO BS 476 PART 6 & ALUMINIUM METAL CLADDING AND COPPER CAPILLARY FITTINGS TO BS EN 1254-1 FOR OUTDOOR PIPEWORK.

USING SILVER BRAZING CAPILLARY JOINT WITH NO LESS THAN 5% SILVER FOR POTABLE & HOT WATER COPPER PIPEWORK. 2) PIPEWORK MATERIALS FOR FLUSHING WATER SUPPLY SHALL BE AS FOLLOWS:

	APPLICATION	SIZE	MATERIAL MATERIAL
	FLUSHING WATER PIPE	ABOVE & INCLUDING Ø80	DUCTILE IRON PIPES TO BS EN 545, CLASS K-12 WITH INTERNAL LINING, 'FLANGED JOINT'
		UP TO AND INCLUDING ¢65	UPVC PIPES TO BS 3505 CLASS E AND FITTING TO BS 4346 : PART 2. 'UPVC CEMENT SOLVENT JOINT'
•			L6
			- VEN

GENERAL NOTES:

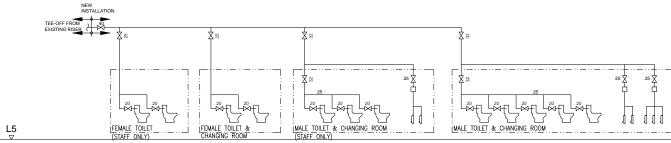
- EVERY WATER CLOSET SHALL BE PROVIDED WITH A FLUSHING CISTERN WHICH SHALL HAVE AN OVERFLOW TERMINATING IN A CONSPICOUS POSITION.

 2) THE DISCHARGE MECHANISM WITHIN THE FLUSHING CISTERN SHALL BE OF THE VALVELESS
- 3) CISTERNS SHALL BE FITTED WITH A BALL VALVE AND A FULLWAY GATE VALVE AT THE INLET IN THE CASE OF A GRAVITY SUPPLY. THE BALL VALVE SHALL SHUT OFF THE SUPPLY WHEN THE WATER LEVEL IS 25mm BELOW THE INVERT OF THE OVERFLOW PIPE. THE INVERT OF THE INLET PIPE OR THE FACE OF THE OUTLET NOISE OF THE BALL VALVE SHALL BE NOT LESS THAN $25 \mathrm{mm}$ ABOVE THE TOP OF THE OVERELOW PIPE.
- 4) FULLWAY GATE VALVE SHALL BE PROVIDED AT THE OUTLET OF EVERY CISTERN AND PROVISION
- SHALL BE MADE FOR A DRAIN-OFF PIPE TO ENABLE THE CISTERN TO BE EMPTIED.

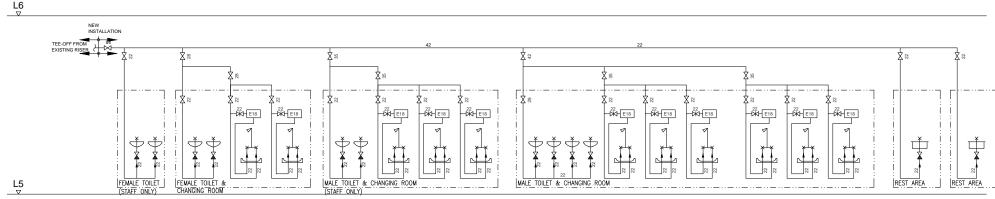
 5) AN OVERFLOW SHALL BE PROVIDED AND SHALL AT LEAST BE ONE COMMERCIAL SIZE LARGER THAN THE INLET PIPE.
- 6) METAL HINGED FLAPS OR GRATINGS ARE REQUIRED FOR OVERFLOW PIPES AND WARNING PIPES OF CISTERNS AND WARNING PIPES WITH MINIMUM SIZE 25mm SHALL DISCHARGE IN CONSPICUOUS POSITIONS.
- 7) ALL OUTLET PIPES FROM THE STORAGE CISTERN SHOULD, WHEREVER POSSIBLE, BE
- POSITIONED AT THE OPPOSITE SIDE TO THE INLET SUPPLY SIDE.

 8) F.R.P. ENCLOSURE FOR PIPEWORK WITHIN PROTECTED AREA TO BE PROVIDED BY THIS CONTRACTOR, F.R.P. NOT TO BE LESS THAN THE STRUCTURAL ELEMENT.
- 9) THIS CONTRACTOR SHALL EMPLOY LICENSED PLUMBER SUBMIT ALL NECESSARY FORMS, DRAWINGS AND DOCUMENT TO WATER SUPPLY DEPARTMENT.
- 10) PUMP CONTROL PANELS, WIRING AND CONDUITS SHOULD BE SUPPLIED AND INSTALLED BY THIS
- CONTRACTOR. 11) NO WATER PIPE SHALL BE EMBEDDED WITHIN LOAD BEARING STRUCTURAL ELEMENTS SUCH AS COLUMNS, BEAMS AND SLABS IN LONGITUDINAL DIRECTION.
- 12) HOT WATER PIPE SHALL BE INSULATED BY ELASTOMERIC THERMAL INSULATION OF CLASS 0 TO BS 476 PART 7. MINIMUM INSULATION THICKNESS SHALL BE 9MM.

SYMBOL	DESCRIPTION
\bowtie	GATE VALVE
1≫1	GLOBE VALVE
M	LOOSE JUMPER TYPE STOP COCK
M	ANGLE VALVE
×	WATER POINT/TAP
\triangleright	WASH BASIN
	KITCHEN SINK
1	URINAL
7]	WATER CLOSET
	URINAL CHANNEL C/W 7.5L CISTERN & ACCESSORIES
E18	18KW INSTANTANEOUS ELECTRIC WATER HEATER
1	SHOWER
	HOT WATER SUPPLY PIPE



VERTICAL PLUMBING LINE DIAGRAM FOR FLUSHING WATER SUPPLY



PRELIMINARY DRAWING

VERTICAL PLUMBING LINE DIAGRAM FOR POTABLE WATER SUPPLY

REVISION AND SUBMISSIONS NO: DATES: REMARKS

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

AS FITTED DRAWING

DRAWING TITLE

VERTICAL PLUMBING LINE DIAGRAM, PIPING NOTES & GENERAL NOTES.

PROJECT NO. (325) in P / AE / PUR / AGC

JOALL	DATE
Not To Scale	
DRAWN BY	APPROVED BY
DWG NO.	REV.
05-PD-02	/

DATE

ABBREVIATION

AFFI	ABOVE FINISHED FLOOR LEVEL	CE	CLEANING EYE	F.D.	FLOOR DRAIN
F/A	FROM ABOVE	U/G	UNDERGROUND	VP	VENT PIPE
T/B	TO BELOW	CI	CAST IRON	WP	WASTE PIPE
H/L	HIGH LEVEL	GS	GALVANIZED STEEL	SP	SOIL PIPE
M/L	MIDDLE LEVEL	DI	DUCTILE IRON	SWP	SOIL AND WASTE PIPE
L/L	LOW LEVEL	VG	VERTICAL GRATING		

	ZB	ZIP BOILER
MATERIAL SCHEDULE	WM	WASHING MACHINE

SERVICES/LOCATION	DIAMETER OF PIPES (mm)	MATERIAL OF PIPES
ABOVEGROUND SOIL & WASTE DRAINAGE PIPEWORK & VENT PIPEWORK	40 AND BELOW	WITHIN THE SAME FIRE COMPARTMENT UPVC PIPE & FITTING TO BS 5255: 1989 PASSING THROUGH DIFFERENT FIRE COMPARTMENTS GALVANIZED STEEL PIPE TO BS 1387 MEDIUM DUTY AND FITTINGS TO BS 143
	50 - 300 (PIPE SIZE OF 225 AS SHOWEN IN THE DRAWINGS IS EQUIVALENT TO 250 EPOXY CAST IRON PIPE)	WITHIN THE SAME FIRE COMPARTMENT UPVC PIPE & FITTING TO BS 5255: 1989 PASSING THROUGH DIFFERENT FIRE COMPARTMENTS EPOXY COATED CAST IRON PIPES & FITTINGS TO BS EN877 WITH S.S. 316 FLEXIBLE COUPLING JOINT TO BS 6087 AND RUBBER GASKET RING TO BS 2494
KITCHEN WASTE PIPE	ANY SIZE	GALVANIZED STEEL PIPE TO BS 1387 MEDIUM DUTY AND FITTINGS TO BS 143

NOTES:

- THE CONTRACTOR SHALL CHECK ON SITE THE EXISTING CONDITIONS AND EXECUTE INSTALLATION TO SUIT WITH EXTRA CLAIM ON DEVIATION WITH DRAWINGS.
- THE CONTRACTOR SHALL CONDUCT TESTING OF THE EXISTING INSTALLATION AND RECTIFY THOSE DEFECTS BEING IDENTIFIED. PHOTO RECORD SHALL BE PREPARED AND SUBMIT TO CONSULTANT FOR RECORD
- CLEAR UP ANY BLOCKAGE OF THE DRAINAGE PIPE OR VENT PIPE SHALL BE RESPONSIBLE BY THIS CONTRACTOR
- THE CONTRACTOR SHALL RESPONSIBLE TO DISMANTLE THE OBSOLETE INSTALLATION ACCORDING TO THE DRAWING SHOWING THE EXISTING INSTALLATION BEING RETAINED.

32mm

100mm

40mm

50mm / 100mm

THE CONTRACTOR SHALL VERIFY THE EXTENT OF EXISTING HORIZONTAL PIPING AND RESPONSIBLE FOR MAKE CONNECTION ACCORDING TO THE EXISTING SITE CONDITION.

GENERAL NOTES

- 1. UNLESS OTHERWISE STATED, BRANCH PIPE SHALL BE AS FOLLOWS:-
 - 1.1) WASTE BRANCH FOR EACH BASIN ...
 - 1.2) WASTE BRANCH FOR EACH VERTICAL GRATING/FLOOR DRAIN
 - 1.3) SOIL BRANCH FOR EACH WATER CLOSET ...

 - 1.6) VENT BRANCH FOR EACH URINAL
- 2. SIZE OF TRAPS FOR FITMENTS SHALL BE THE SAME AS THE PIPE SIZE NOTED FOR FITMENTS.
- 3. WHETHER SHOWN ON DRAWING OR NOT, SUFFICIENT ACCESS SHALL BE PROVIDED BY MEANS OF CLEANING EYES OR OTHER APPROVED METHOD TO ENABLE ALL DRAINAGE PIPES TO BE CLEARED OF OBSTRUCTION, SUCH ACCESS POINTS SHALL BE SO SITED AS TO ALLOW CLEARANCE FOR THE EASY ENTRY OF CLEANING RODS.
- 4. ALL BENDS IN SOIL PIPES & WASTE PIPES SHALL HAVE AN OBTUSE ANGLE & HAVE THE LARGEST PRACTICABLE RADIUS OF CURVATURE, THE BENDS SHALL NOT CHANGE IN ANY OF THE SECTION OF THE PIPE & A CLEANING EYE SHALL BE PROVIDED AT OR NEAR THE BEND.
- 5. EVERY ANTI-SYPHONAGE PIPE SHALL BE CONNECTED WITH THE TRAP IF THE CONNECTION FOR THE ANTI-SYPHONAGE IS AN INTEGRAL PART OF THE TRAP OR SHALL BE CONNECTED WITH THE BRANCH SOIL PIPE OR BRANCH WASTE PIPE. AT A POINT NOT MORE THAN 300mm FROM THE TRAP OUTLET.
- 6. WHERE THE WASTE PIPE FROM A WASTE FITMENT IS CONNECTED TO A SOIL PIPE. THE TRAP PROVIDED FOR THE WASTE FITMENT SHALL HAVE A WATER SEAL OF 80mm DEEP AND VENTILATED BY MEANS OF ANTI-SYPHONAGE PIPE.
- 7. RE-SEALING TRAP WITH WATER SEAL OF 80mm DEEP SHALL BE USED WHERE ANTI-SYPHONAGE PIPE HAVE NOT BEEN PROVIDED IN ITEM 6 AND WHERE MORE THAN ONE TRAP OF WASTE FITMENT IS CONNECTED WITH ONE WASTE PIPE.
- 8. ALL SOIL VENTILATING PIPES & WASTE VENTILATING PIPES ARE TO BE TERMINATED AT NOT LESS THAN 1 M ABOVE THE ROOF OR FLAT ROOF.
- 9. HORIZONTAL VENT BRANCHES SHALL BE SLIGHTLY INCLINED UPWARD CONNECTED TO VENT STACK WITH A FALL OF 1:100.
- 10. ALL 50mm ANTI-SYPHONAGE PIPE AND VENTILATED PIPES FROM CONTAINER CHAMBER SEALED TRAP GULLIES SHALL BE CONNECTED TO BUILDING MAIN VENTILATION PIPE SYSTEM AND TERMINATED AT NOT LESS THAN 1 M ABOVER THE ROOF OR FLAT ROOF.
- 11. EVERY DRAIN OR SEWER SHALL BE LAID WITH A MIN. FALL AS FOLLOWS OR AS INDICATED

100mm & BELOW	1 IN 40
150mm	1 IN 70
225mm	1 IN 100
250mm	1 IN 120
300mm	1 IN 150

- 12. WHERE ANY DRAIN OR SEWER IS LAID THROUGH ANY BUILDING OR WHERE ANY BUILDING IS CONSTRUCTED OVER ANY DRAIN OR SEWER, RELEVELING ARCHES OR BEAMS TO BE PROVIDED BY OTHERS
- 13. FALL OF SURFACE/DISH CHANNEL IS TO BE MINIMUM 1:100 OR INDICATED ON DRAWINGS.
- INSPECTION AND MAINTENANCE OF PIPES.
- 15. ALL PIPES PASSING THROUGH A COMPARTMENT WALL OR SLAB SHALL BE PROVIDED FIRE RESISTING PIPEWORK OR ENCLOSURE BY FIRE RESISTING MATERIAL. THE FIRE RESISTING REQUIREMENT SHALL BE COMPLIANCE WITH REGULATIONS.
- 16. ALL DRAIN PIPES TURN WITHIN FIRE EXIT ROUTE, STAIRCASE AND FIRE PROTECTIVE AREA SHALL BE
- 17. IN GENERAL, EMBEDMENT OF WATER-BORNE PIPES IN STRUCTURE MEMBERS.
 - ACCORDING TO PNAP230. ALL WATER PIPES PASSING THRIUGH STRUCTURAL ELEMENT SHALL BE COMPLETED WITH SLEEVES OR OTHER SUITABLE MATERIAL.
- STRUCTURAL MEMBERS AND, WHERE THE PIPES ARE EASILY ACCESSIBLE FOR MAINTENANCE.
- b. HORIZONTAL PIPES PIERCING THROUGH BEAMS, COLUMNS, STRUCTURAL WALLS, BEAMS OR TRANSFER PLATES

- NIGHT WORKS IN ORDER TO COMPLETE ALL CONTRACT WORKS.
- 20. DRIP TRAY WITH DRAIN PIPES SHALL BE PROVIDED FOR ALL DRAINAGE PIPES PASSING THROUGH THE ELECTRICAL ROOMS AND TENANTS' AREA.
- 21. BEFORE CARRYING OUT THE DRAINAGE WORK AND DIVERSION WORK, THE CONTRACTOR SHALL SURVEY THE EXISTING DRAINAGE PIPES, SIZES AND ALIGNMENT, E&M UTILITY SERVICES, ETC. AND REPORT WITHIN 2 WEEKS AFTER AWARD THE THE FOLLOWING WORK SHALL BE CARRIED OUT BY THIS CONTRACTOR:
- AFTER VERIFICATION OF ALL SERVICES, THE CONTRACTOR SHALL SUBMIT ALTERNATIVE DRAINAGE PROPOSAL FOR ARCHITECT/ENGINEER COMMENT WITHIN 3 WEEK AFTER AWARD OF CONTRACT.
- 22. THE FALSE CEILING HEIGHT IN DORMITORY SHALL BE 2500MM(H) MINIMUM. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT THE MODIFICATION OF THE EXISTING F&M SERVICES TO SUIT
- PROPERLY PLUG-OFF INSIDE PIPEDUCT.

FOR PROTECTION OF THE DRAIN OR SEWER & FOR PREVENTION OF ANY LOAD FROM THE BUILDING TRANSMITTED TO THE DRAIN OR SEWER.

LEGEND

SOIL & WASTE PIPE

ANTI-SIPHONAGE PIPE/VENT PIPE

FLOOR DRAIN W/ ANTI-SYPHONAGE TRAP

WASTE PIPE

SWP

ASP/VP

- 14. INSPECTION PANELS OF ADEQUATE SIZE SHALL BE PROVIDED AT ALL PIPE DUCTS AND SHAFTS FOR
- ENCLOSURED WITH 2 HRS. FIRE RATED PROOF MATERIAL AND 4 HRS. FIRE RATED PROOF MATERIAL
- WOULD NOT BE PERMITTED WITHIN COLUMNS, SLABS, STRUCTURAL WALLS, BEAMS OR TRANSFER PLATES IN
- WATER-BORNE PIPES PIERCING THROUGH THE FOLLOWING STRUCTURAL MEMBERS MAY BE PERMITTED WHERE IT IS DEMONSTRATED THAT NO ADVERSE EFFECT WILL BE CAUSED TO THE PERFORMANCE OF THE
- a. VERTICAL PIPES PIERCING THROUGH THE STRUCTURAL SLAB, TRANSFER PLATES; AND
- 18. ALL PIPES SHALL BE CONCEALED IN DRY WALL, FALSE CEILING VOID OR PIPEDUCT INSIDE THE TOILETS
- 19. THE CONTRACTOR SHALL ALLOW IN THE CONTRACT SUM OF ALL NECESSARY EXPENSES FOR OVERTIME AND
- THE CONTRACTOR SHALL SURVEY/RECHECK/VERIFY ALL EXISTING SERVICES SUCH AS ALIGNMENT, SIZES, COVER LEVEL, INVERT LEVEL, BOTTOM LEVEL, WATER TEST, ETC.
- 23. THIS CONTRACTOR SHALL DISMANTLE OBSOLETE EXISTING DRAIN PIPE EXPOSED TO VIEW OUTSIDE PIPE DUCT AND

PRELIMINARY DRAWING

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

NO: DATES: REMARKS

REVISION AND SUBMISSIONS

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

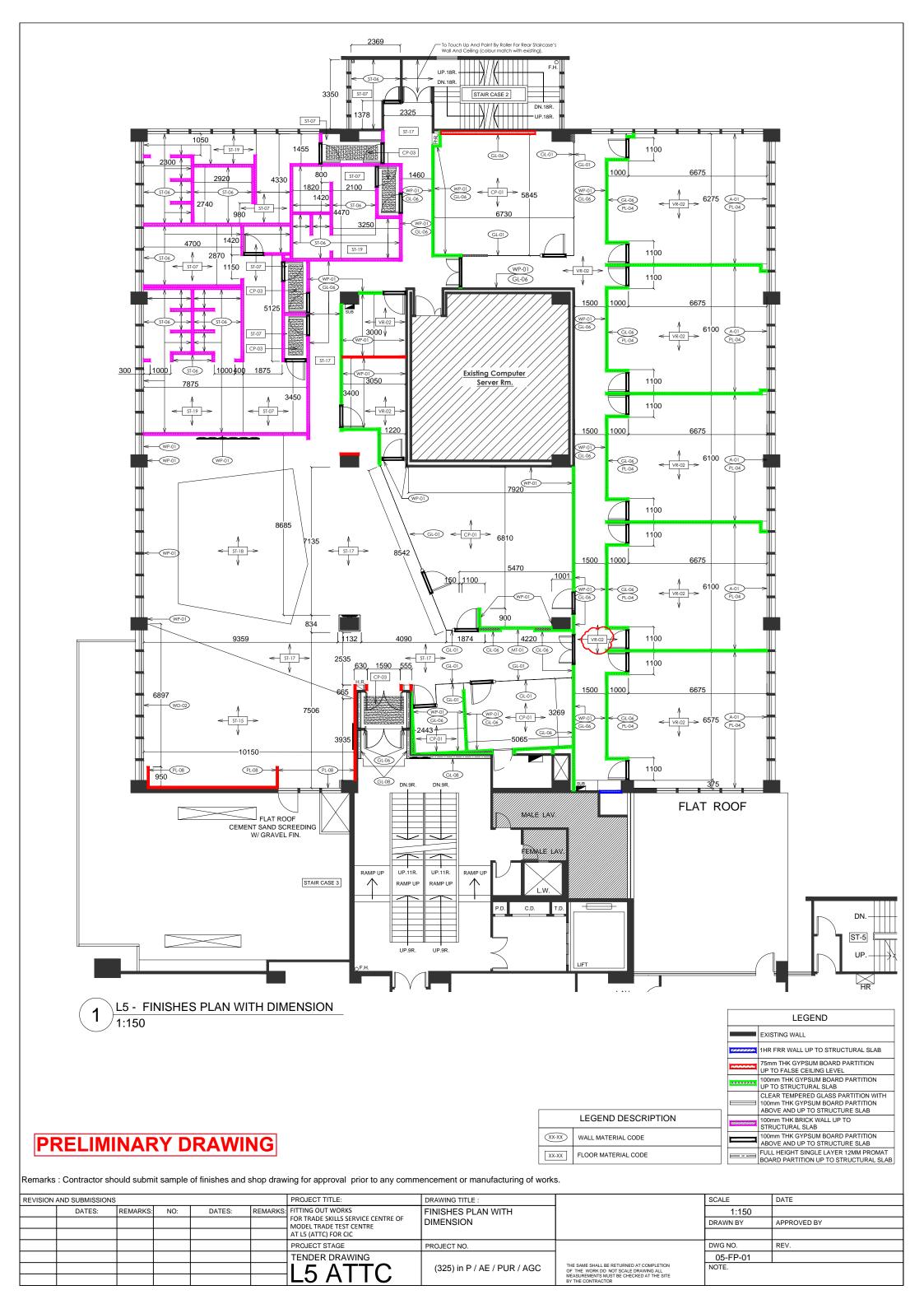
AS FITTED DRAWING

DRAWING TITLE

LEGEND, NOTES, GENERAL NOTES, ABBREVIATION & MATERIAL SCHEDULE

PROJECT NO. (325) in P / AE / PUR / AGC

SCALE Not To Scale DRAWN BY APPROVED BY DWG NO. REV. 05-PD-03





L5 - Perspective - Reception and Waiting Area

PRELIMINARY DRAWING

	•	•	•	•		ididotaining of Worko.						
IISSIONS								PROJECT TITLE:	DRAWING TITLE :		SCALE	DATE
DATES:	REMARKS:	NO:	DATES:	REMARKS:	NO:	DATES:	REMARKS:	FITTING OUT WORKS FOR TRADE	PERSPECTIVE -		NTS	
									RECEPTION AND		DRAWN BY	APPROVED BY
								FOR CIC	WAITING AREA			
								PROJECT STAGE	PROJECT NO.		DWG NO.	REV.
								TENDER DRAWING			05-IV-01	
									(325) in P / AE / PUR / AGC	THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL	NOTE.	
										MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR	DRAWING I	N A3 PAPER SIZE
11:									DATES: REMARKS: NO: DATES: REMARKS: NO: DATES: REMARKS: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC PROJECT STAGE TENDER DRAWING TENDER DRAWING	DATES: REMARKS: NO: DATES: REMARKS: NO: DATES: REMARKS: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC WAITING AREA PROJECT STAGE PROJECT NO. TENDER DRAWING (325) in P / AE / PUR / AGC	DATES: REMARKS: NO: DATES: REMARKS: NO: DATES: REMARKS: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC WAITING AREA PROJECT STAGE PROJECT STAGE PROJECT NO. TENDER DRAWING THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK OF OR TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF OR TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF OR TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK OF THE WORK OF TRADE SHALL BE RETURNED AT COMPLETION OF THE WORK	DATES: REMARKS: NO: DATES: REMARKS: NO: DATES: REMARKS: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC FOR



L5 - Perspective - Reception and Waiting Area

PRELIMINARY DRAWING

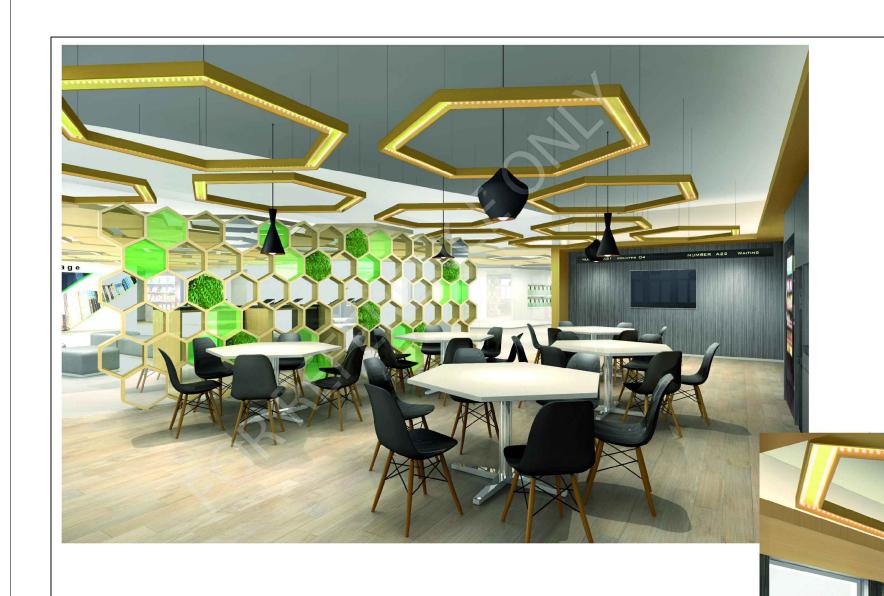
				3 - 11 - 1									
REVISION AND SU	JBMISSIONS							PROJECT TITLE:	DRAWING TITLE :		SCALE	DATE	
NO:	DATES:	REMARKS:	NO:	DATES:	REMARKS:	NO:	DATES:	REMARKS:	FITTING OUT WORKS FOR TRADE	PERSPECTIVE -		NTS	
									SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC)	RECEPTION AND		DRAWN BY	APPROVED BY
									FOR CIC	WAITING AREA			
									PROJECT STAGE	PROJECT NO.		DWG NO.	REV.
									TENDER DRAWING			05-IV-02	
									L5 ATTC	ATTC (325) in P / AE / PUR / AGC	THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL	NOTE.	
											MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR	DRAWING I	N A3 PAPER SIZE





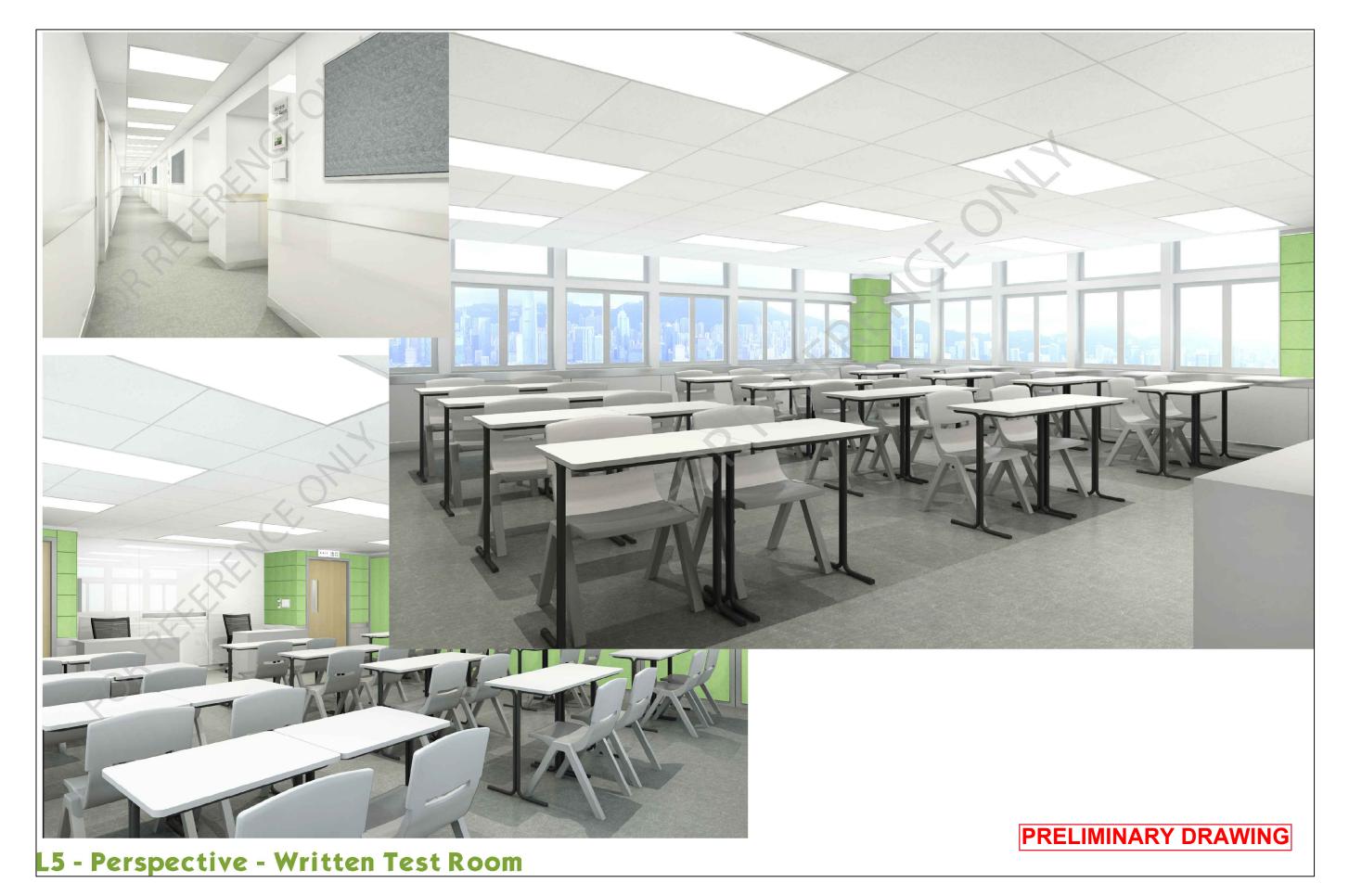
L5 - Perspective - Reception and Waiting Area

tractor criair capitiit	campic of inflorio	o and onop arav	ing ioi appiorai pi	nor to arry commit	oriooriiorii or iiiai	ranaotannig or monte	•						
IBMISSIONS								PROJECT TITLE:	DRAWING TITLE :		SCALE	DATE	
DATES:	REMARKS:	NO:	DATES:	REMARKS:	NO:	DATES:	REMARKS:	FITTING OUT WORKS FOR TRADE	PERSPECTIVE -	1	NTS		
									TRADE TEST CENTRE AT L5 (ATTC)	RECEPTION AND		DRAWN BY	APPROVED BY
								FOR CIC	WAITING AREA				
								PROJECT STAGE	PROJECT NO.		DWG NO.	REV.	
								TENDER DRAWING			05-IV-03		
									(325) in P / AE / PUR / AGC	THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL	NOTE.		
										MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR	DRAWING	IN A3 PAPER SIZE	
	JBMISSIONS	JBMISSIONS	JBMISSIONS	JBMISSIONS	JBMISSIONS	JBMISSIONS	JBMISSIONS	JBMISSIONS	DATES: REMARKS: NO: DATES: REMARKS: NO: DATES: REMARKS: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC PROJECT STAGE TENDER DRAWING	DATES: REMARKS: NO: DATES: REMARKS: NO: DATES: REMARKS: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC WAITING AREA PROJECT STAGE PROJECT STAGE PROJECT STAGE PROJECT NO. TENDER DRAWING (325) in P / AE / PUR / AGC	DATES: REMARKS: NO: DATES: REMARKS: NO: DATES: REMARKS: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC WAITING AREA PROJECT STAGE PROJECT STAGE PROJECT STAGE PROJECT NO. TENDER DRAWING THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK OF	DATES: REMARKS: NO: DATES: REMARKS: NO: DATES: REMARKS: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC FOR CIC WAITING AREA PROJECT STAGE PROJECT NO. TENDER DRAWING (325) IN P / AE / PUR / AGC THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORKSON DATE SHALL BE RETURNED AT COMPLETION OF THE WORKS DATE SHALL BE RETURNED AT COMPLETION OF THE WORKSON DATE SHALL BE RETURNED AT THE WORKSON DATE SHALL BE	



L5 - Perspective - Rest Area

NO: DATES: REMARKS: NO: DATES: REMARKS: NO: DATES: REMARKS: NO: DATES: REMARKS: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT LS (ATTC) FOR CIC PROJECT STAGE PROJECT NO. DRAWN BY APPROVE TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT LS (ATTC) FOR CIC PROJECT STAGE PROJECT NO. DWG NO. REV. O5-IV-04	
REST AREA DRAWN BY APPROV FOR CIC PROJECT STAGE PROJECT NO. DWG NO. REV. TENDER DRAWING	
FOR CIC FOR CIC PROJECT STAGE PROJECT NO. DWG NO. REV. TENDER DRAWING 05-IV-04	D BY
TENDER DRAWING 05-IV-04	
THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL OF THE	
MEASUREMENTS MUST BE CHECKED AT THE SITE DRAWING IN A3 PA	ER SIZE



REVISION A	ND SUBMISSIONS								PROJECT TITLE:	DRAWING TITLE :		SCALE	DATE
NO:	DATES:	REMARKS:	NO:	DATES:	REMARKS:	NO:	DATES:	REMARKS:	FITTING OUT WORKS FOR TRADE	PERSPECTIVE -		NTS	
									SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC)	WRITTEN TEST ROOM		DRAWN BY	APPROVED BY
									FOR CIC				
									PROJECT STAGE	PROJECT NO.		DWG NO.	REV.
									TENDER DRAWING			05-IV-05	
										(325) in P / AE / PUR / AGC	THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL	NOTE.	
									LSAIIC		MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR	DRAWING	IN A3 PAPER SIZE

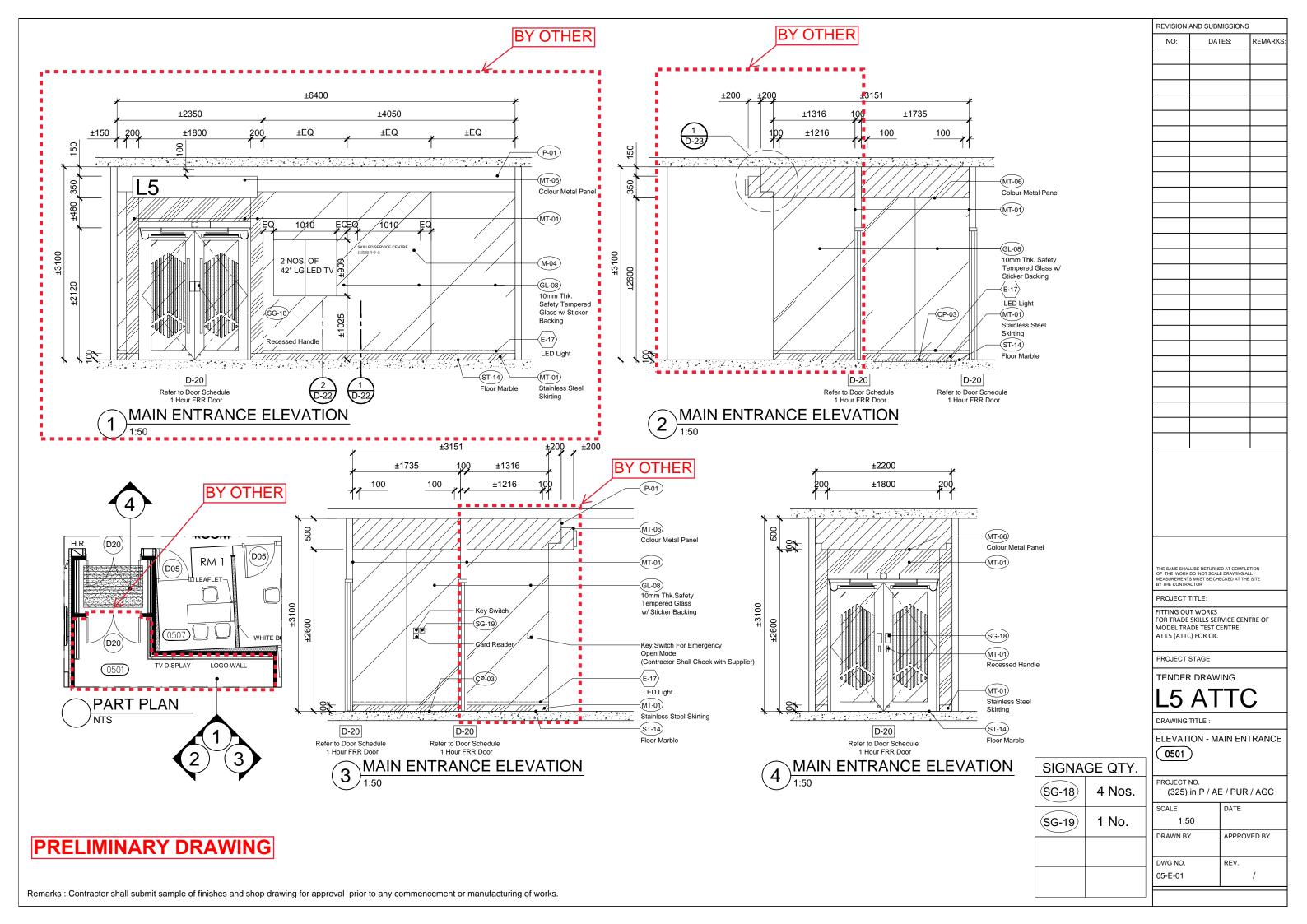


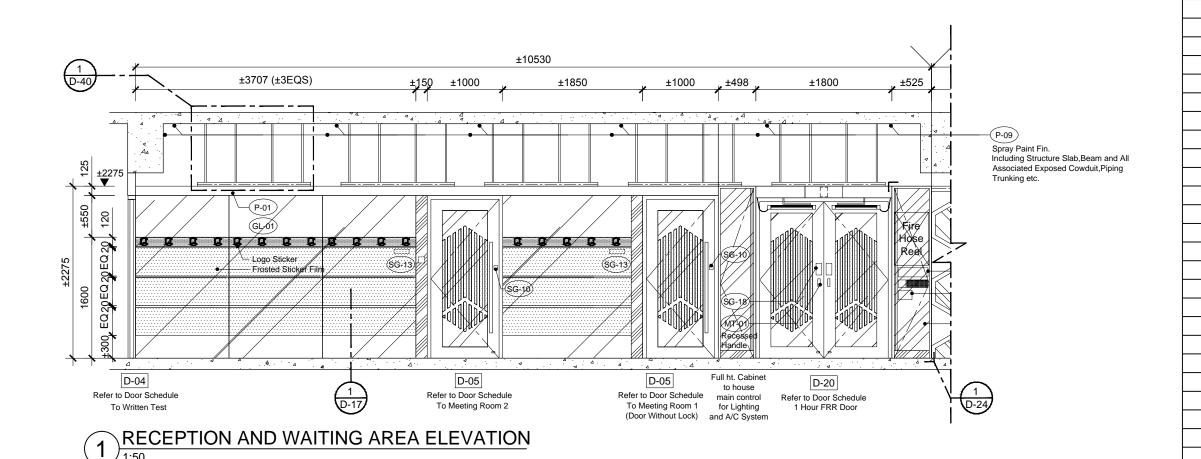


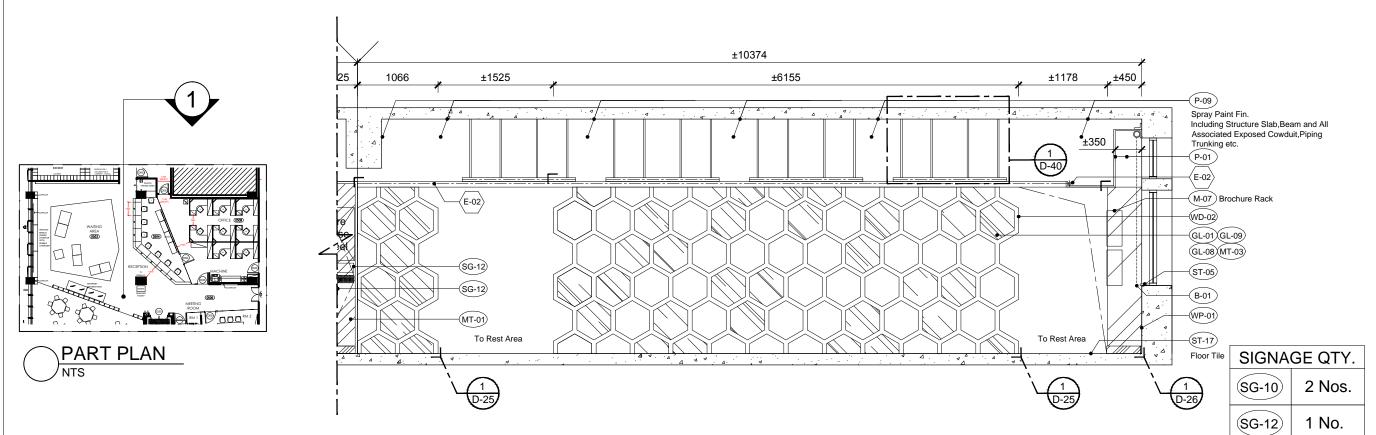


L5 - Perspective - Changing, Toilet, Locker

itemarks . Com	tractor shall subini	it sample of fillishes	s and shop dra	wing ioi appiovai p	onor to any comme	encement of ma	indiacturing or work	.s.					
REVISION AND SU	JBMISSIONS								PROJECT TITLE:	DRAWING TITLE :		SCALE	DATE
NO:	DATES:	REMARKS:	NO:	DATES:	REMARKS:	NO:	DATES:	REMARKS:	FITTING OUT WORKS FOR TRADE	PERSPECTIVE -		NTS	
									SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC)	CHANGING, TOILET, LOCKER		DRAWN BY	APPROVED BY
									FOR CIC				
									PROJECT STAGE	PROJECT NO.		DWG NO.	REV.
									TENDER DRAWING			05-IV-06	
									\square I 5 \land TTC	(325) in P / AE / PUR / AGC	THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL	NOTE.	
									LOAIIC		MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR	DRAWING I	IN A3 PAPER SIZE
		•			•								







Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

THE SAME SHALL BE RETURNED AT COMPLETION
OF THE WORK DO NOT SCALE DRAWING ALL
MEASUREMENTS MUST BE CHECKED AT THE SITE
BY THE CONTRACTOR

REVISION AND SUBMISSIONS

DATES:

REMARKS:

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS ENHANCEMENT CENTRE
OF MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING L5 ATTC

DRAWING TITLE :

ELEVATION -

RECEPTION & WAITING AREA

0503 (0504)(0505)

(SG-13)

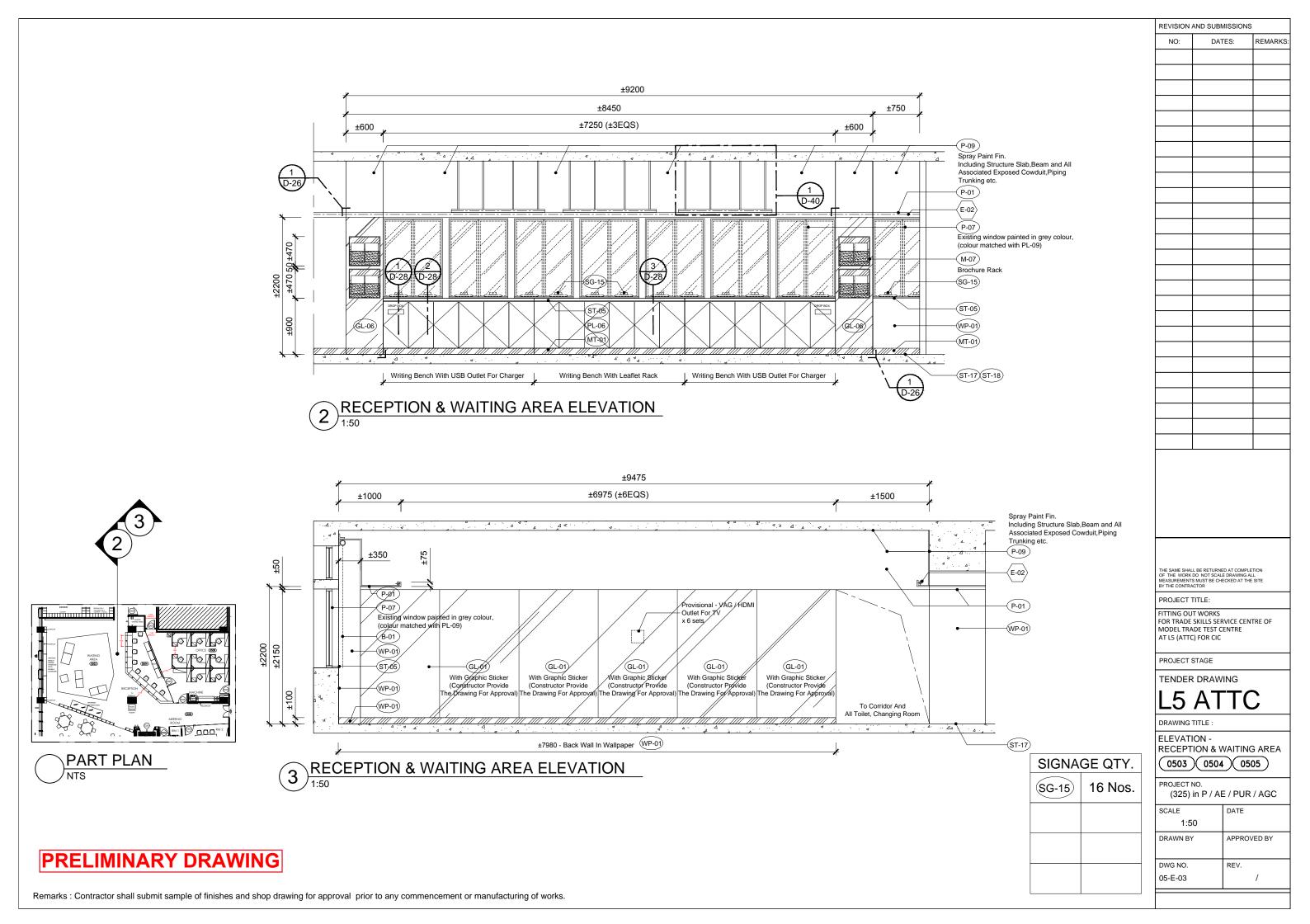
(SG-18)

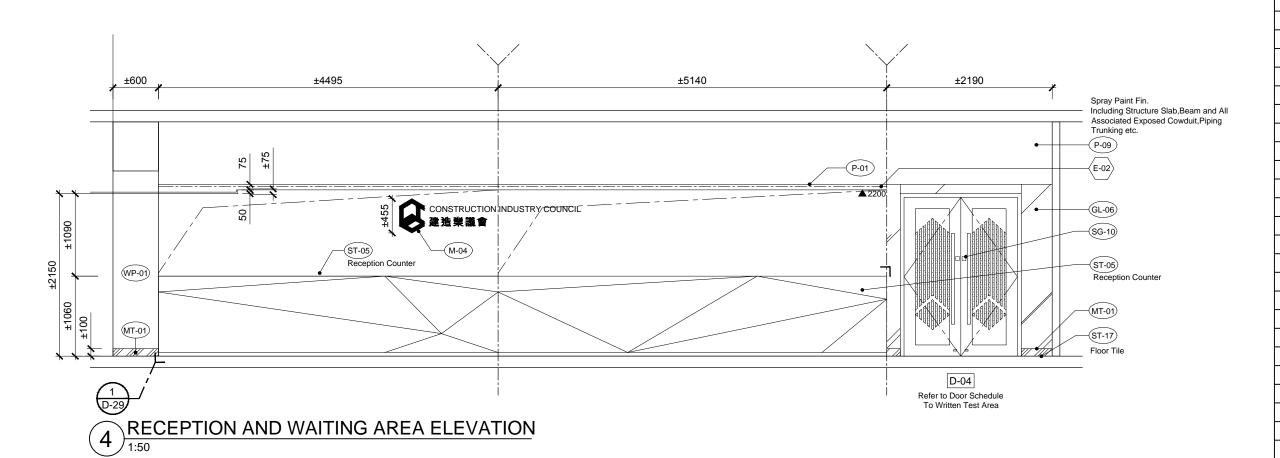
2 Nos.

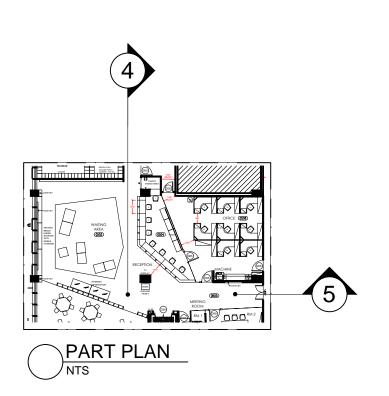
2 Nos.

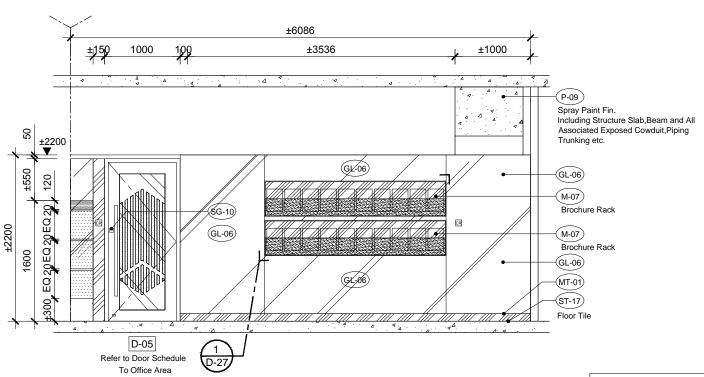
(325) in P / AE / PUR / AGC

SCALE DATE DRAWN BY APPROVED BY REV. 05-E-02









(5) RECEPTION AND WAITING AREA ELEVATION

SG-10	3 Nos.

SIGNAGE QTY.

E SAME SHALL BE RETURNED AT COMPLETION THE WORK DO NOT SCALE DRAWING ALL ASUREMENTS MUST BE CHECKED AT THE SITE THE CONTRACTOR

REVISION AND SUBMISSIONS

DATES:

REMARKS:

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

DRAWING TITLE :

ELEVATION -

RECEPTION & WAITING AREA 0503 0504 0505

PROJECT NO.

(325) in P / AE / PUR / AGC

SCALE
1:50

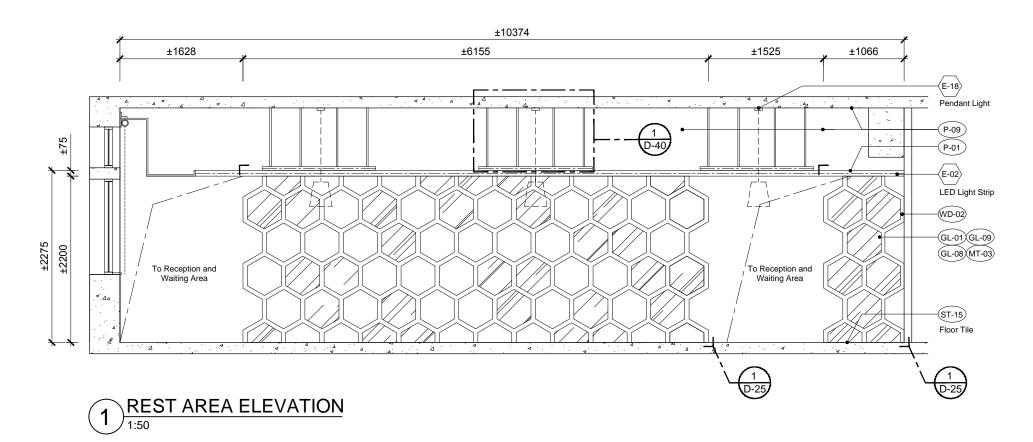
DRAWN BY

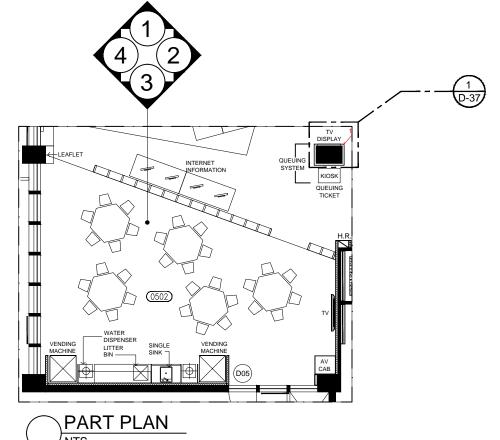
APPROVED BY

DWG NO.
05-E-04

APPROVED BY

PRELIMINARY DRAWING





2 REST AREA ELEVATION
1:50

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

REVISION AND SUBMISSIONS

DATES:

REMARKS:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE
TENDER DRAWING

L5 ATTC

DRAWING TITLE :

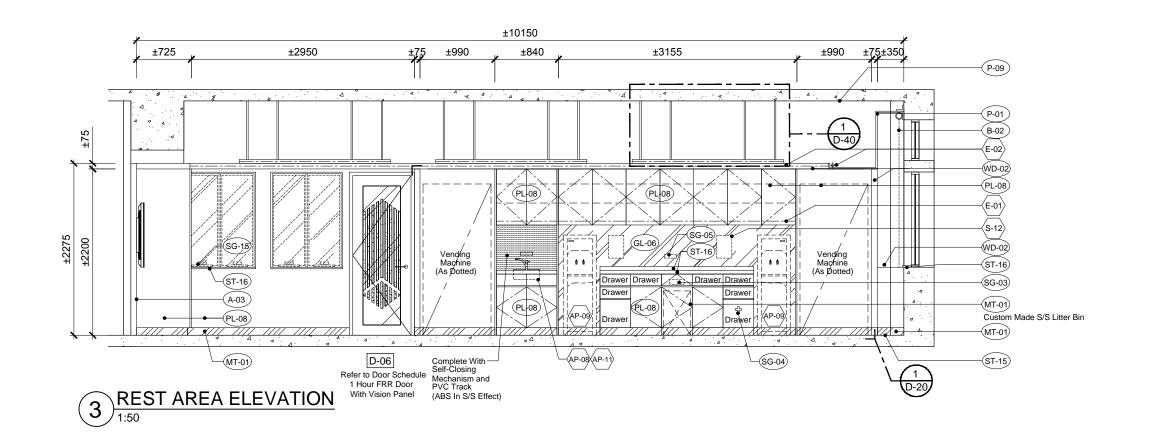
ELEVATION - REST AREA

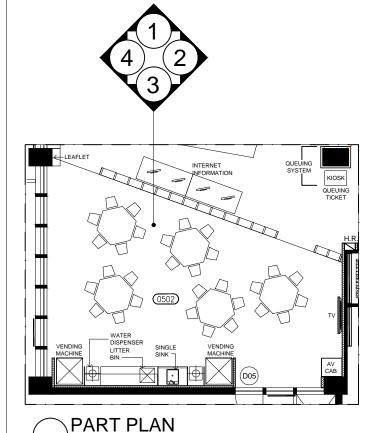
PROJECT NO.

(325) in P / AE / PUR / AGC

SCALE	DATE
1:50	
DRAWN BY	APPROVED BY
DWG NO.	REV.
05-E-05	/
	•

PRELIMINARY DRAWING







	±650 ±200	±8225 ±6775	±600	
*\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	P-09 WD-02	P-01	1 D-40	P-09 Spray Paint Fin. Including Structure Slab,Beam and All Associated Exposed Cowduit,Piping Trunking etc. P-01 E-02 E-07 Evention window pointed in grow solour.
±2275 640 ¢ 650	E-01) (GL-06) (ST-16)			Existing window painted in grey colour, (colour matched with PL-09) (SG-15) (ST-16) (WD-02) GL-01) GL-09
100 810	(WD-02) (PL-08)	(WD-02)		(GL-08 (MT-03)
_	4		2. 4 4 4 14 14 14 14 14 14 14 14 14 14 14	SIGNAGE QTY.

 SG-03
 1 No.

 SG-04
 1 No.

 SG-05
 2 Nos.

 SG-15
 18 Nos.

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE :

ELEVATION - REST AREA

PROJECT NO.

(325) in P / AE / PUR / AGC

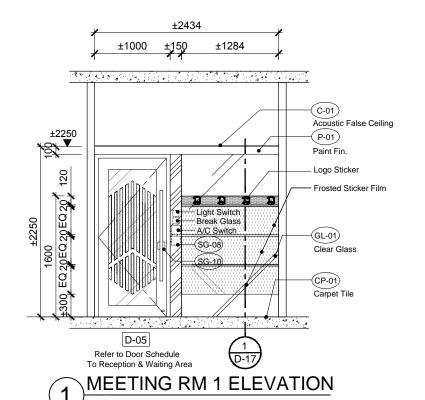
SCALE DATE

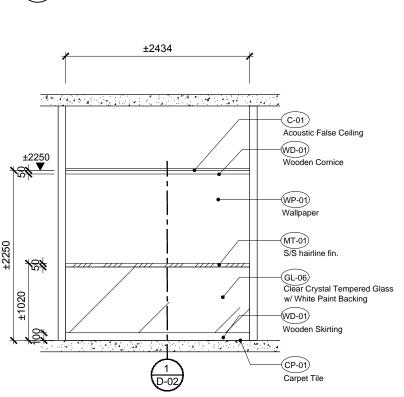
1:50

DRAWN BY APPROVED BY

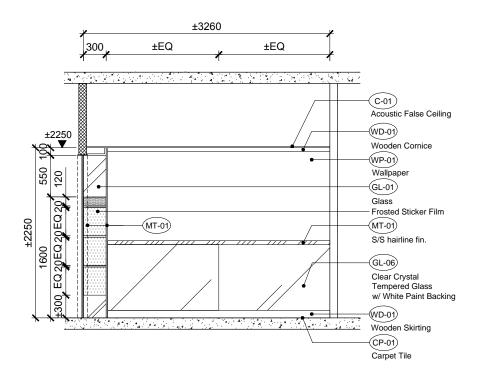
DWG NO. REV.
05-E-06 /

PRELIMINARY DRAWING

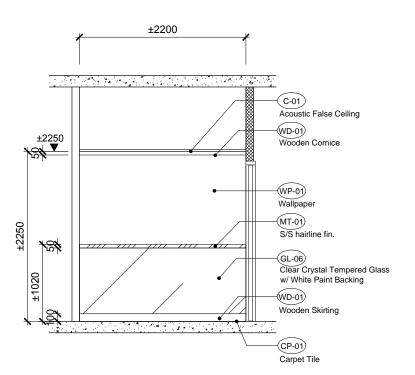




(3) MEETING RM 1 ELEVATION



2 MEETING RM 1 ELEVATION



MEETING RM 1 ELEVATION

1:50

SIGNA	GE QTY.
SG-08	1 No.
SG-10	1 No.

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT LS (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE

ELEVATION - MEETING RM 1

PROJECT NO.

(325) in P / AE / PUR / AGC

SCALE DATE

1:50

DRAWN BY

APPROVED BY

DWG NO.
05-E-07

REV.
/

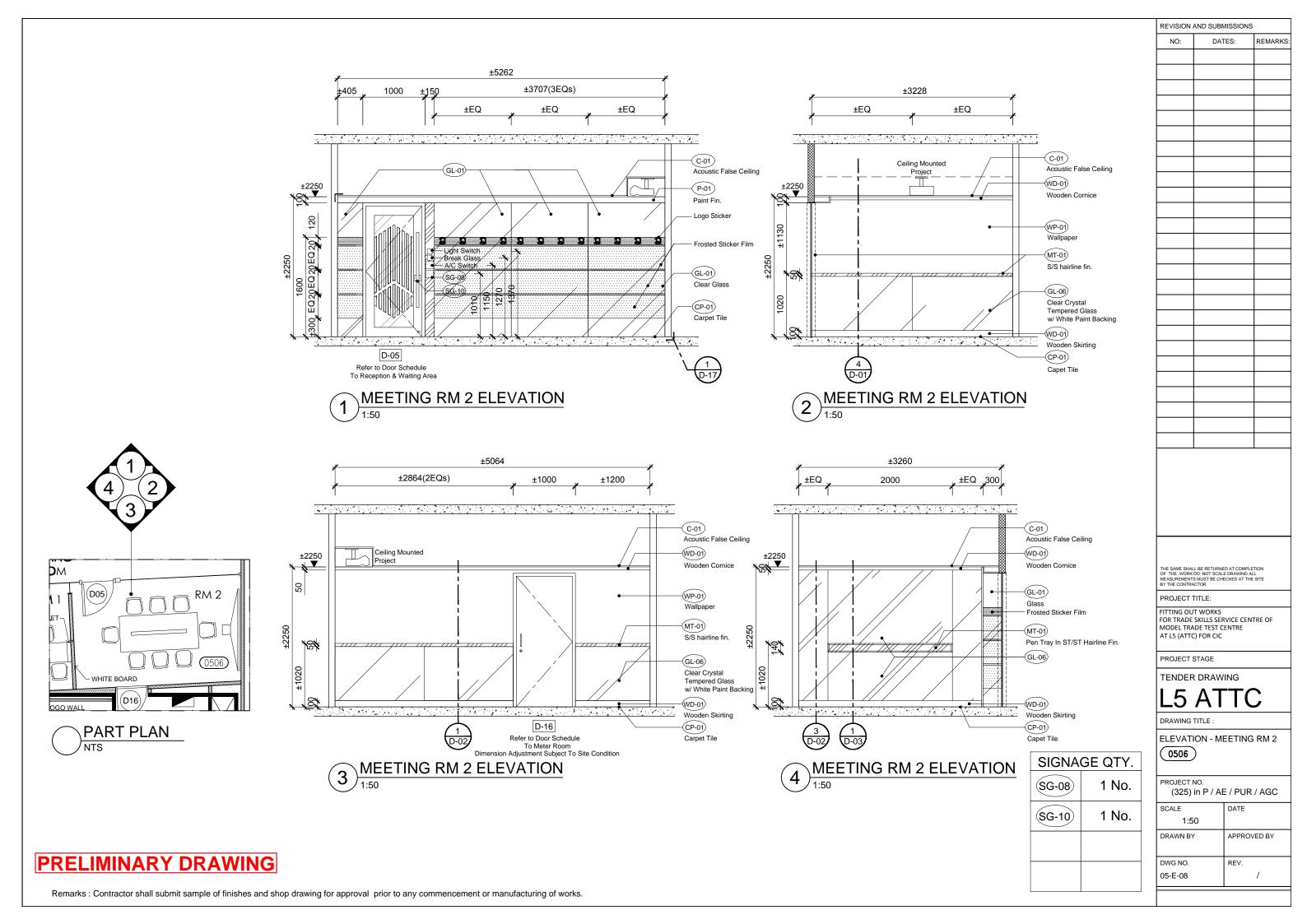
PRELIMINARY DRAWING

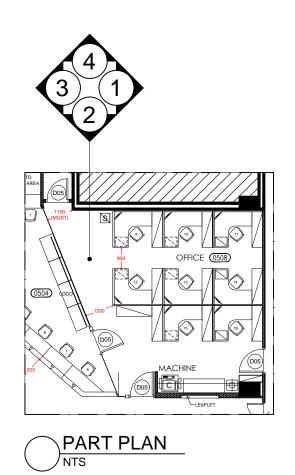
PART PLAN

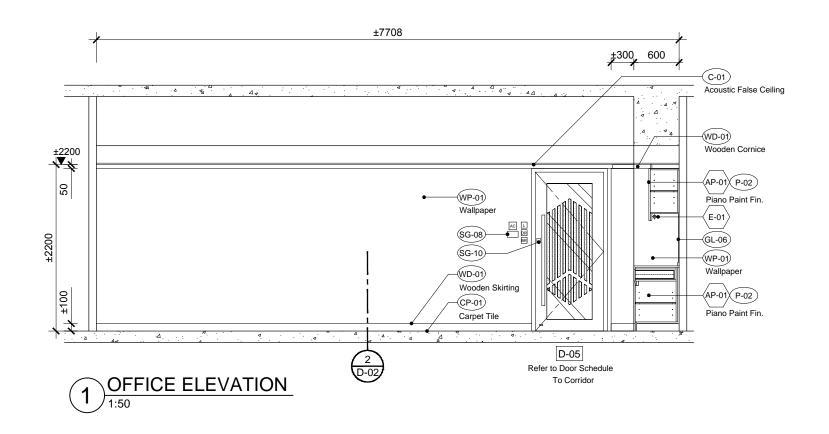
RM 1

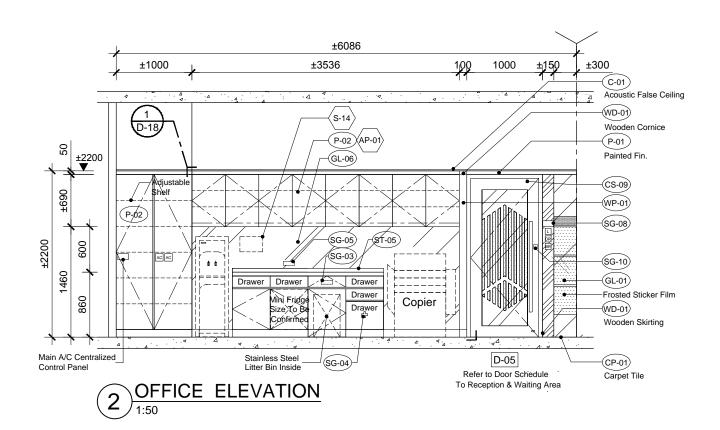
LEAFLET

D05









SIGNA	GE QTY.
SG-03	1 No.
SG-04	1 No.
SG-05	1 No.
SG-08	2 Nos.
SG-10	2 Nos.

NO: DATES: REMARKS:

REVISION AND SUBMISSIONS

ALL DESIGNS. PRINTS & SPECIFICATIONS ARE THE PROPERTY OF PP2 DESIGN LTD. & CANNOT BE USED WITHOUT THEIR WRITTEN PERMISSION

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE :

ELEVATION - OFFICE

PROJECT NO.

(325) in P / AE / PUR / AGC

SCALE
1:50

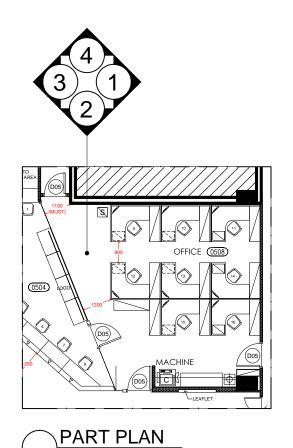
DRAWN BY

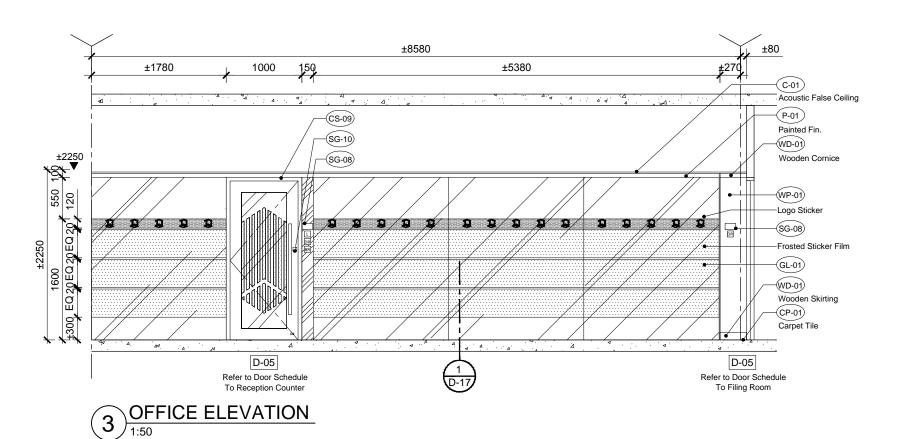
APPROVED BY

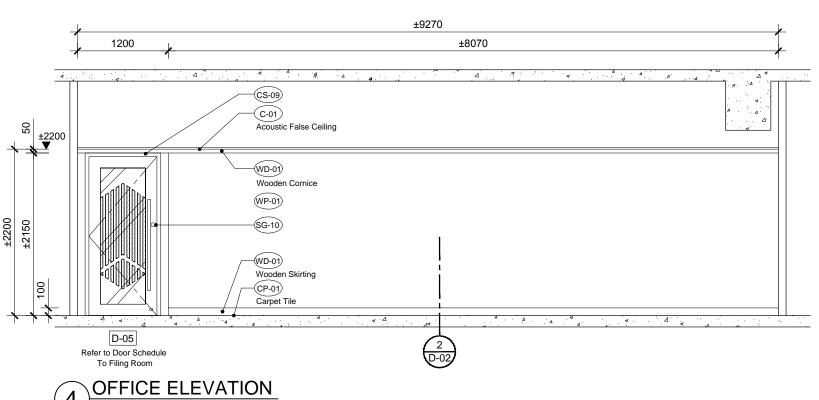
DWG NO.
05-E-09

/

PRELIMINARY DRAWING







SIGNAGE QTY.

SG-08 2 Nos.

SG-10 2 Nos.

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE :

ELEVATION - OFFICE 0508

PROJECT NO.

(325) in P / AE / PUR / AGC

 SCALE
 DATE

 1:50
 APPROVED BY

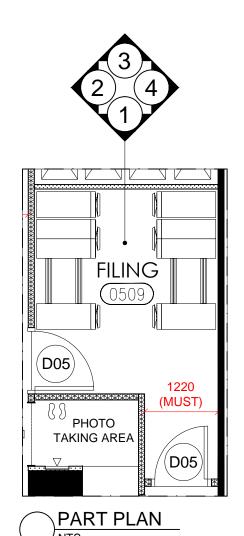
 DWG NO.
 REV.

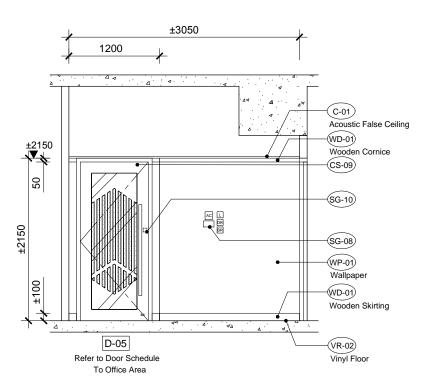
 05-E-10
 /

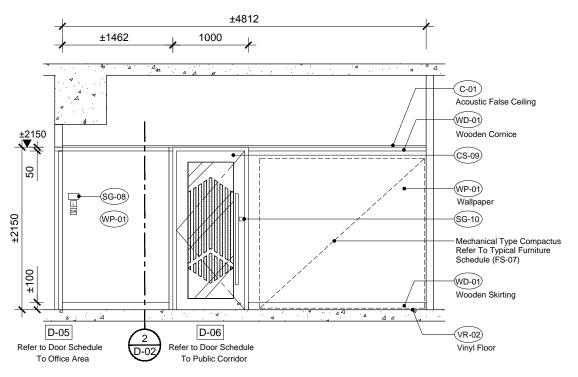
PRELIMINARY DRAWING

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

1:50







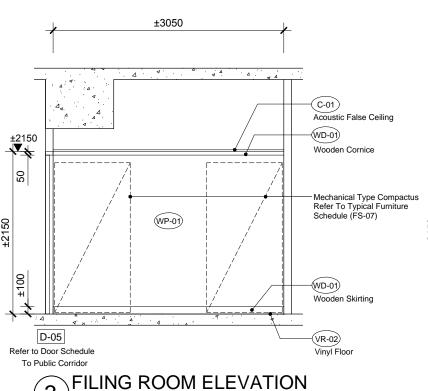
±4812





±2150

20





THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

Acoustic False Ceiling

(WD-01)

WP-01 Wallpaper

WD-01) Wooden Skirting

(VR-02)

D-05

Refer to Door Schedule

To Office Area

Vinyl Floor

Wooden Cornice

Mechanical Type Compactus

(SG-08)

(SG-10)

SIGNAGE QTY.

2 Nos.

2 Nos.

Refer To Typical Furniture Schedule (FS-07) REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

TENDER DRAWING

LS ATT

DRAWING TITLE :

ELEVATION - FILING ROOM
0509

PROJECT NO. (325) in P / AE / PUR / AGC

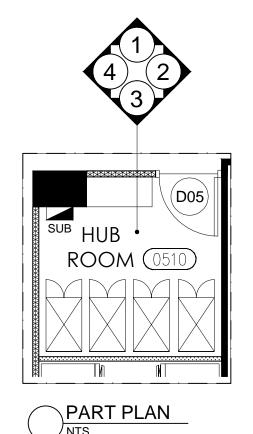
 SCALE
 DATE

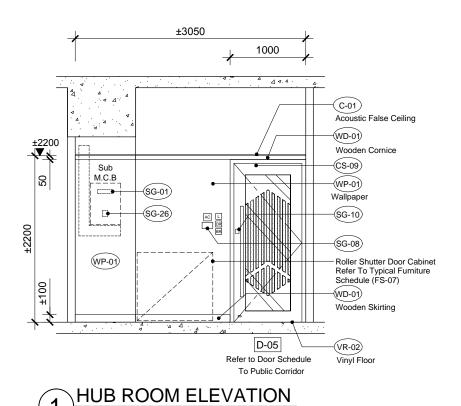
 1:50
 APPROVED BY

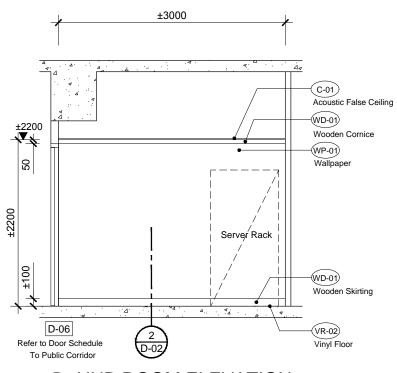
 DWG NO.
 REV.

 05-E-11
 /

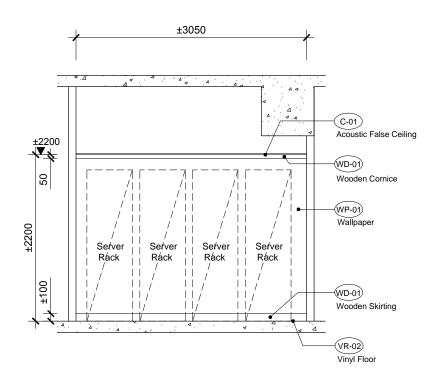
PRELIMINARY DRAWING



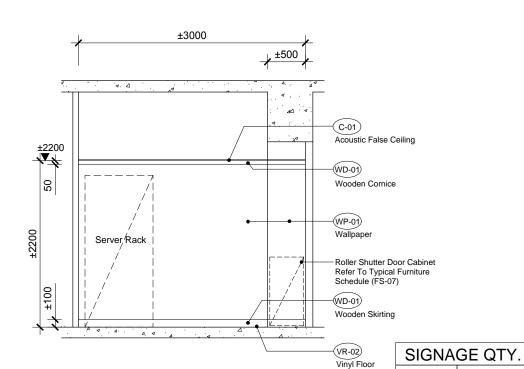




2 HUB ROOM ELEVATION
1:50



3 HUB ROOM ELEVATION
1:50



4 HUB ROOM ELEVATION
1:50

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MIST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE
AT LS (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

L5 ATTC

DRAWING TITLE :

ELEVATION - HUB ROOM

0510

PROJECT NO. (325) in P / AE / PUR / AGC

(SG-01)

(SG-08)

(SG-10)

(SG-26)

1 No.

1 No.

1 No.

1 No.

SCALE
1:50

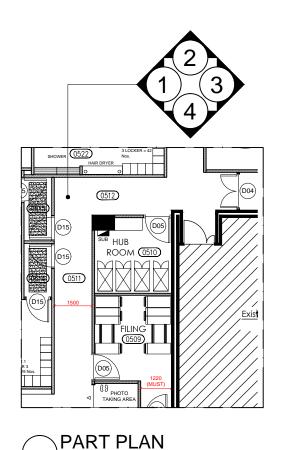
DRAWN BY

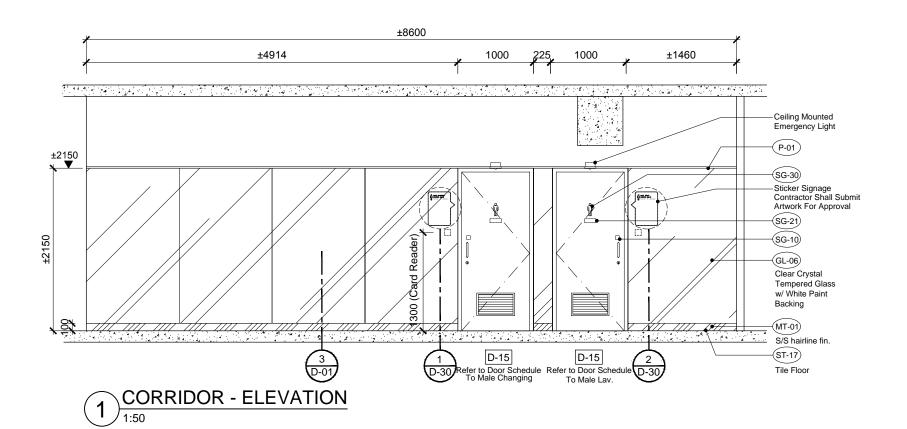
APPROVED BY

DWG NO.
05-E-12

REV.
/

PRELIMINARY DRAWING





±7252 1460 (SG-29)-5 D-29 (P-01) Gypsum Board ±2150 Ceiling In Paint Fin. EIXT (STAFF ONLY) CONFERENCE RM (Sticker Signage
Contractor Shall Submit
Artwork For Approval NALE TOLET AND CHANGING (STAFF (NLY) 6 D-29 GL-06 Clear Crystal Tempered Glass To Corridor and Toilet & Changing Rm w/ White Paint Backing (0513) MT-01 S/S hairline fin. ST-17) Tile Floor

CORRIDOR - ELEVATION

1:50

SIGNA	GE QTY.
SG-10	2 Nos.
SG-21	2 Nos.
SG-29	1 No.
(SG-30)	2 Nos.

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATT

DRAWING TITLE :

ELEVATION - CORRIDOR

(0511) (0512)

PROJECT NO. (325) in P / AE / PUR / AGC

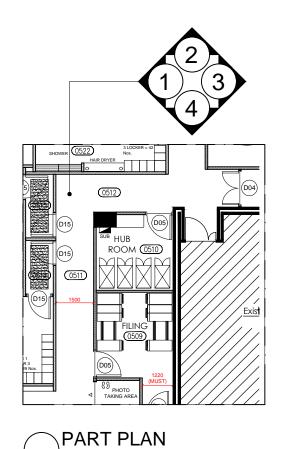
 SCALE
 DATE

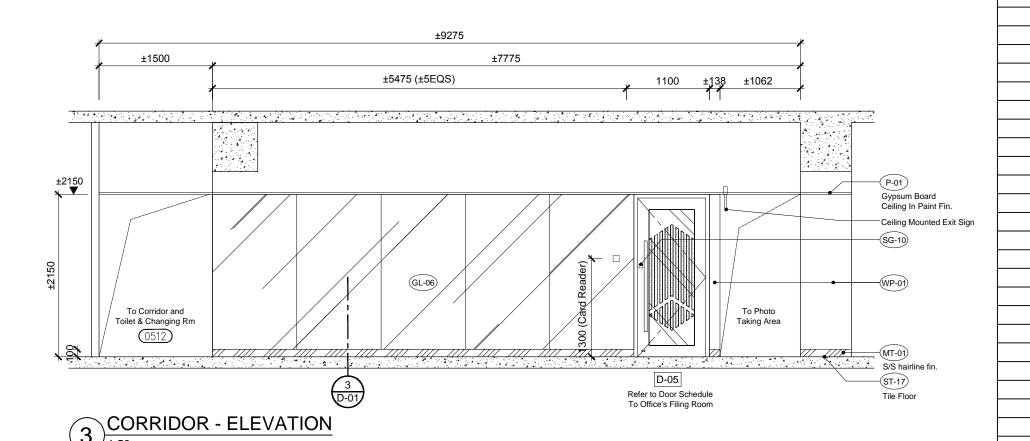
 1:50
 APPROVED BY

 DWG NO.
 REV.

 05-E-13
 /

PRELIMINARY DRAWING





±7252 ±2150 (±2EQS) 1300 ±450 1000 ±1500 ±852 (P-01) Gypsum Board ±2150 Ceiling In Paint Fin. EIXT Sticker Signage Contractor Shall Submit Artwork For Approval 3 D-30 GL-06) Clear Crystal Tempered Glass w/ White Paint To Corridor and Toilet & Changing Rm To Existing Computer Server Room Backing (0511) MT-01) S/S hairline fin. D-05 ST-17 Refer to Door Schedule To Office's Filing Room Tile Floor

CORRIDOR - ELEVATION

1:50

SIGNAGE QTY.

SG-10 2 Nos.

THE SAME SHALL BE RETURNED AT COMPLETION
OF THE WORK DO NOT SCALE DRAWING ALL
MEASUREMENTS MUST BE CHECKED AT THE SIT BY THE CONTRACTOR
BY THE CONTRACTOR

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE :

ELEVATION - CORRIDOR

(0511) (0512)

PROJECT NO.

(325) in P / AE / PUR / AGC

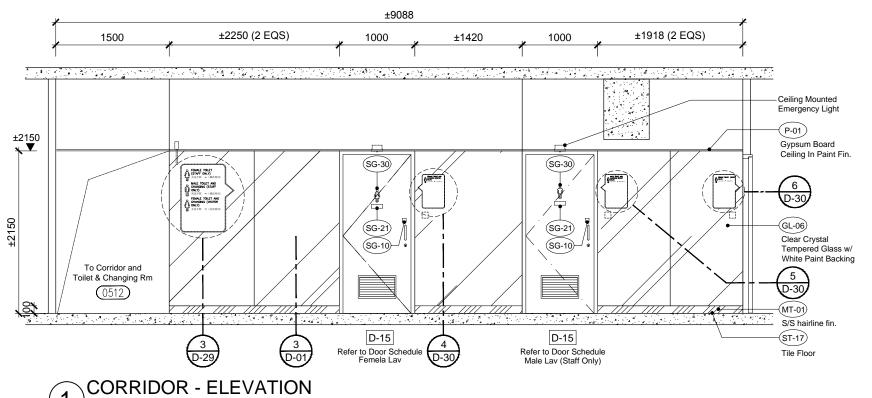
 SCALE
 DATE

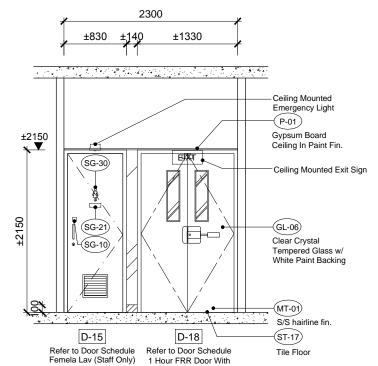
 1:50
 APPROVED BY

 DWG NO.
 REV.

 05-E-14
 /

PRELIMINAR DRAWING





Vision Panel

2 CORRIDOR - ELEVATION
1:50

±5345 (5 EQS) ±1500 ±1408 Ceiling Mounted Exit Sign ±2150 Gypsum Board Ceiling In Paint Fin. FEMALE TOLET (STAFF ONLY) FONLY) Hose Reel MALE TOLET AND CHANGING (STAFF (SG-10) (GL-06) Clear Crystal Tempered Glass w/ White Paint Backing (MT-01) S/S hairline fin. D-04 (ST-17) (4) (D-29) Refer to Door Schedule Tile Floor

8888

PART PLAN
NTS

 $\underbrace{3}_{1:50}^{\hbox{CORRIDOR - ELEVATION}}$

 SIGNAGE QTY.

 \$G-10
 5 Nos.

 \$G-12
 2 Nos.

 \$G-21
 3 Nos.

 \$G-30
 3 Nos.

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE :

ELEVATION - CORRIDOR 0513

PROJECT NO.

(325) in P / AE / PUR / AGC

SCALE
1:50

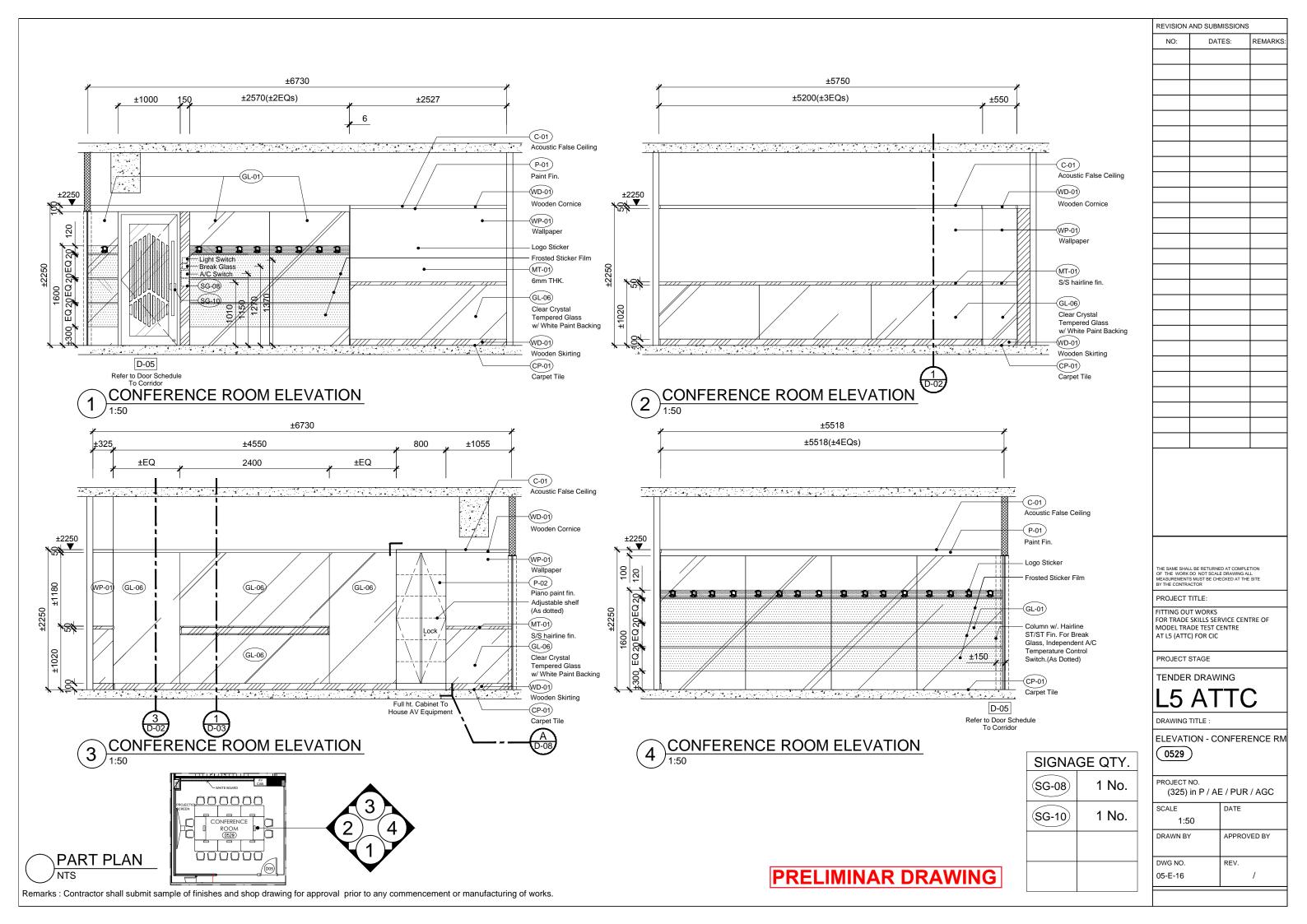
DRAWN BY

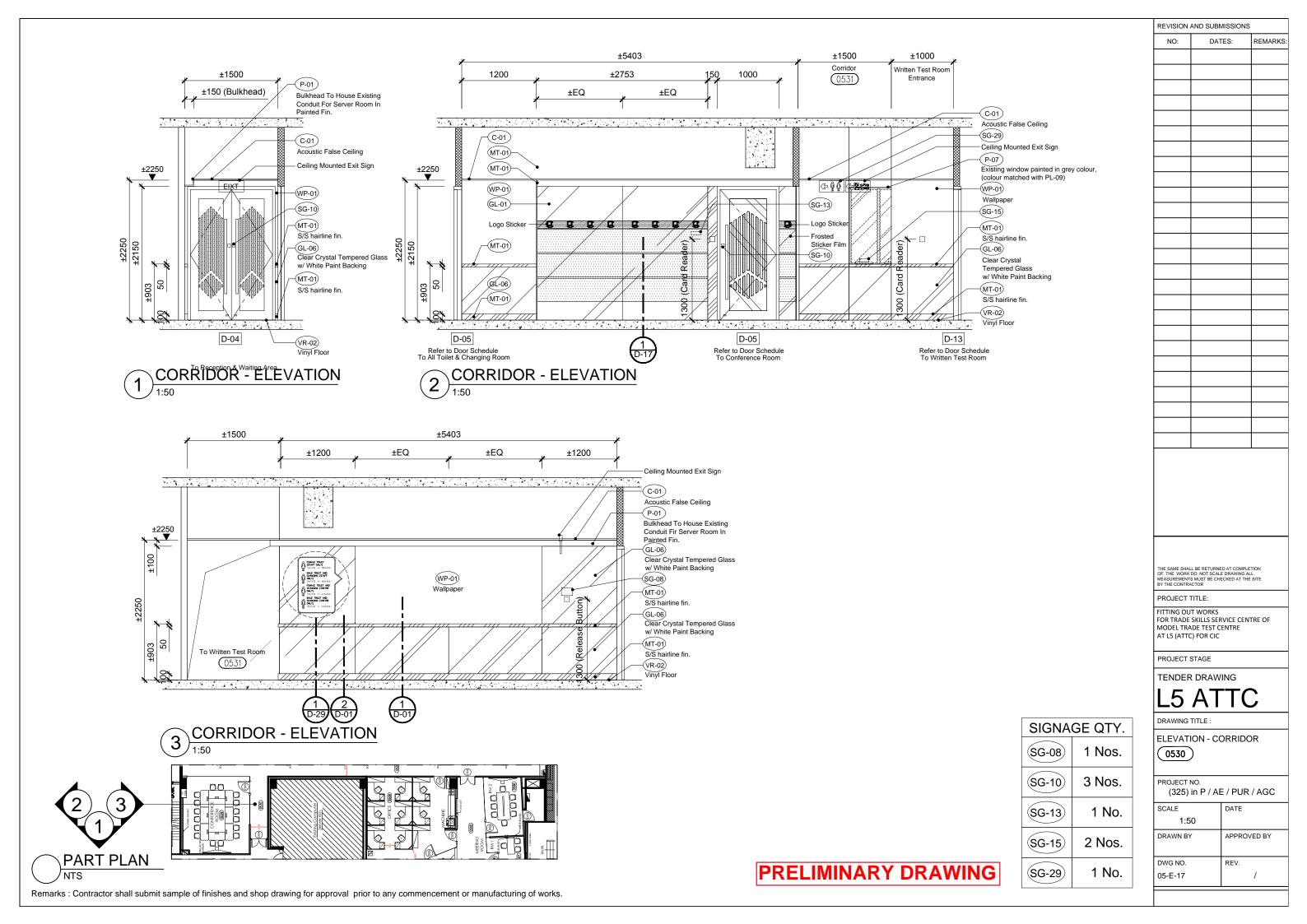
APPROVED BY

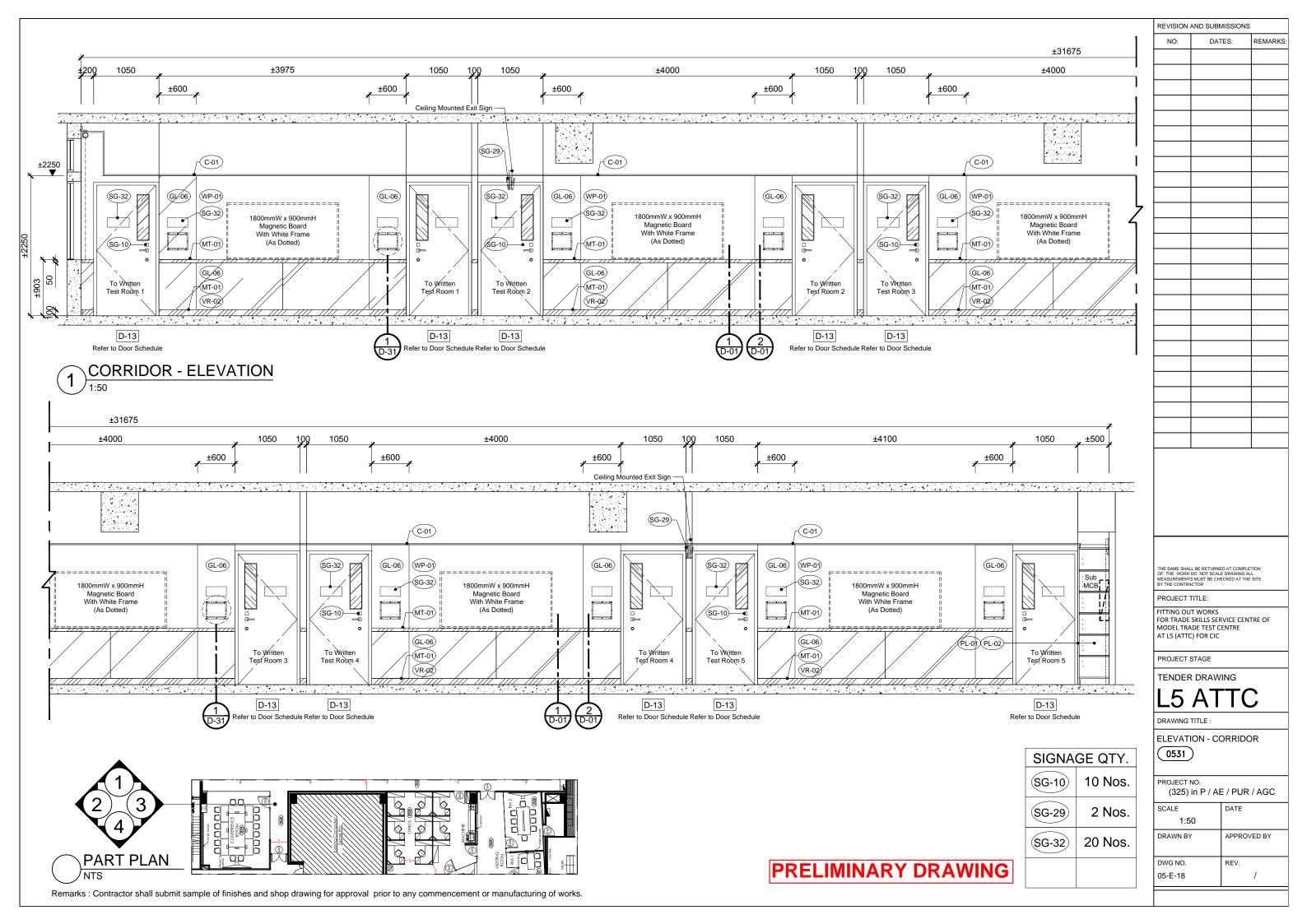
DWG NO.
05-E-15

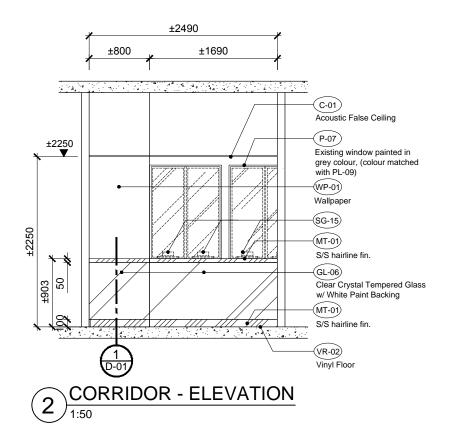
REV.
/

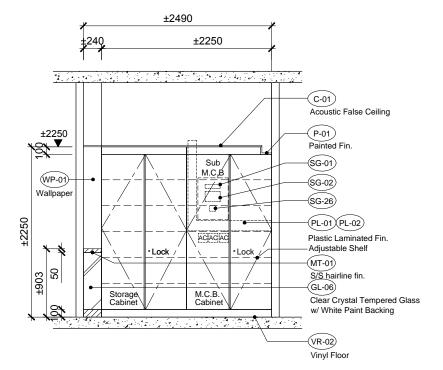
PRELIMINAR DRAWING











4 CORRIDOR - ELEVATION
1:50

PART PLAN

NITS

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

PRELIMINARY DRAWING

SIGNAGE QTY.	
SG-01	1 No.
SG-02	1 No.
SG-15	4 Nos.
SG-26	1 No.

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE DATE OF THE STREET OF T

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT LS (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

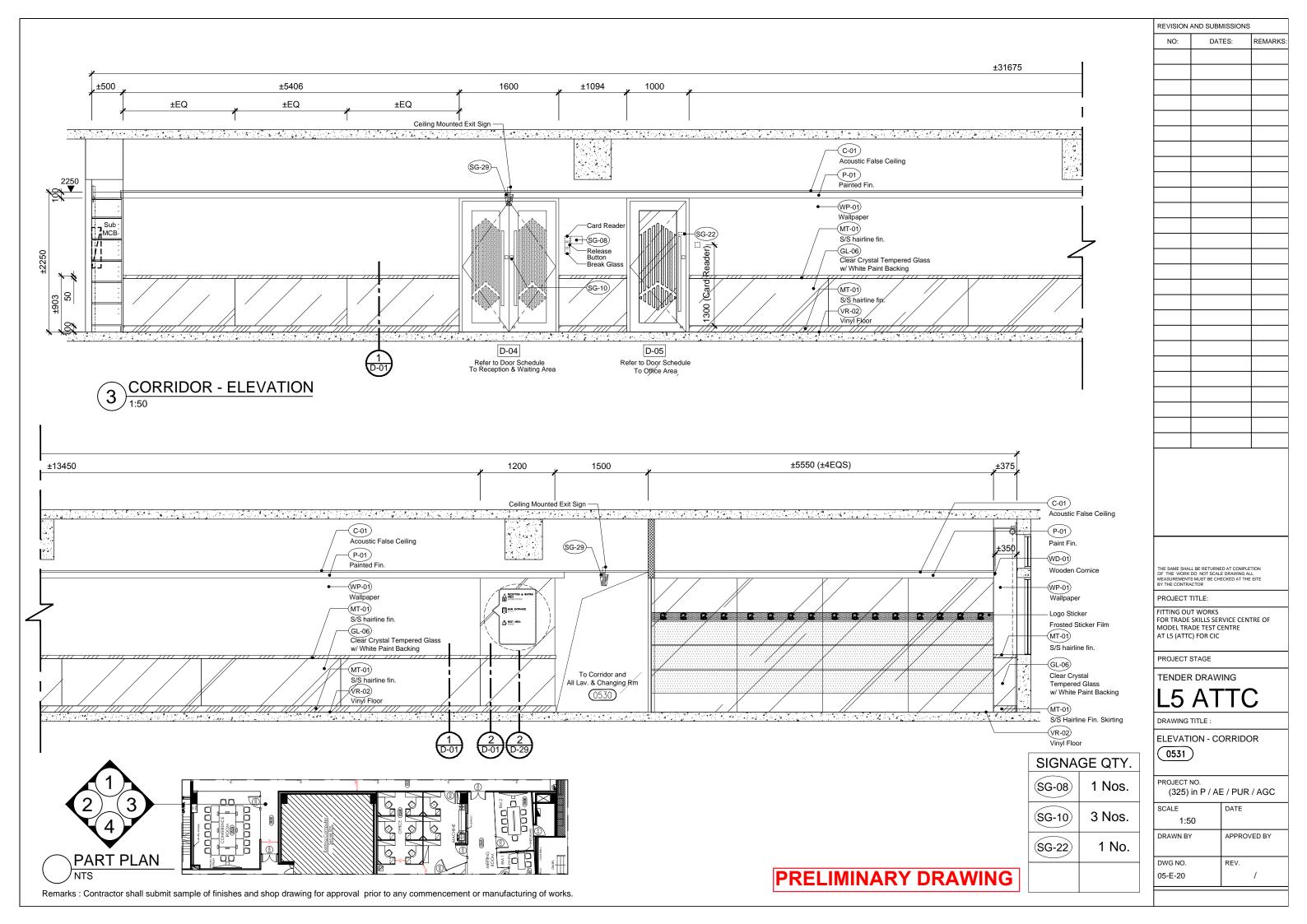
DRAWING TITLE :

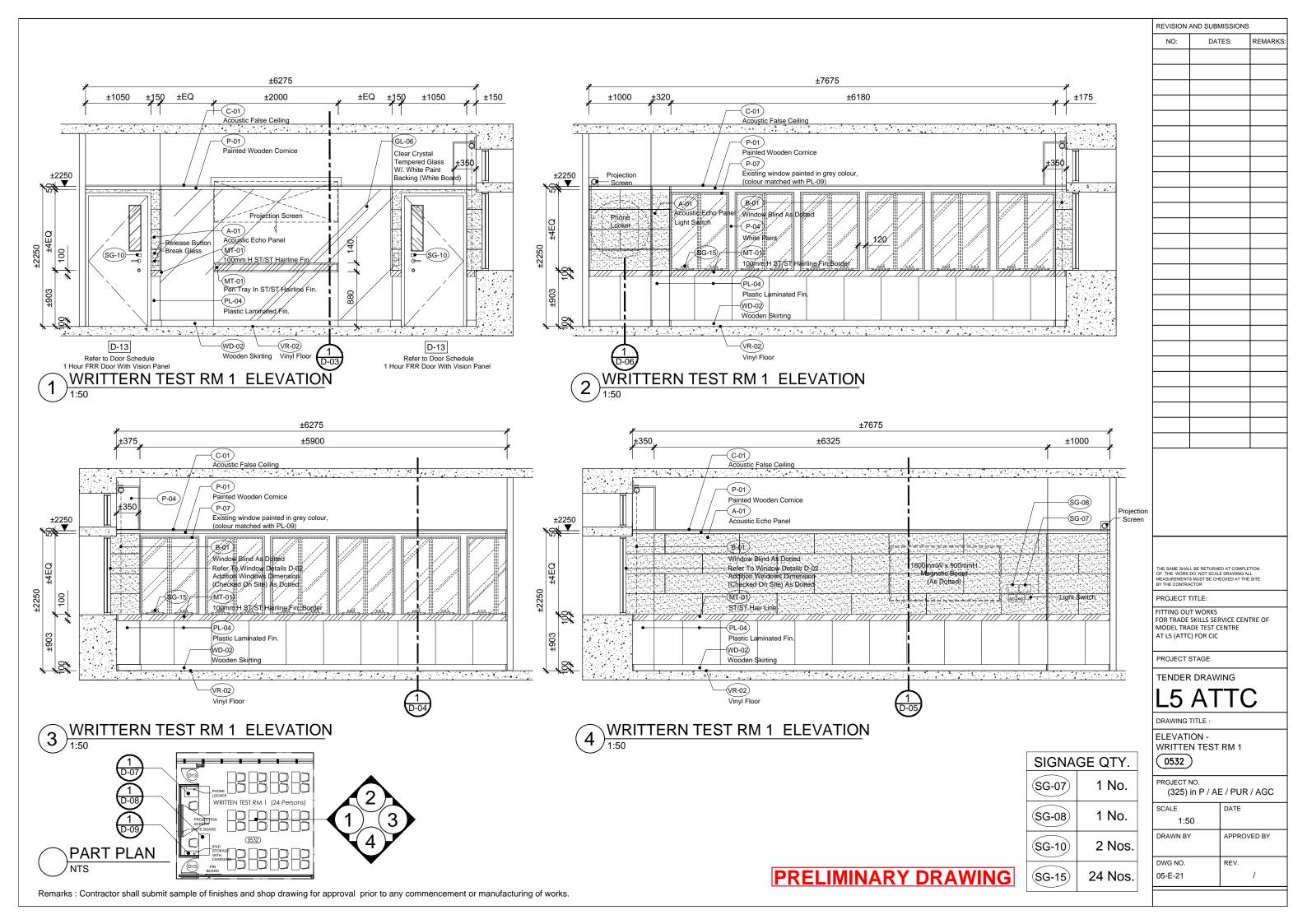
ELEVATION - CORRIDOR 0531

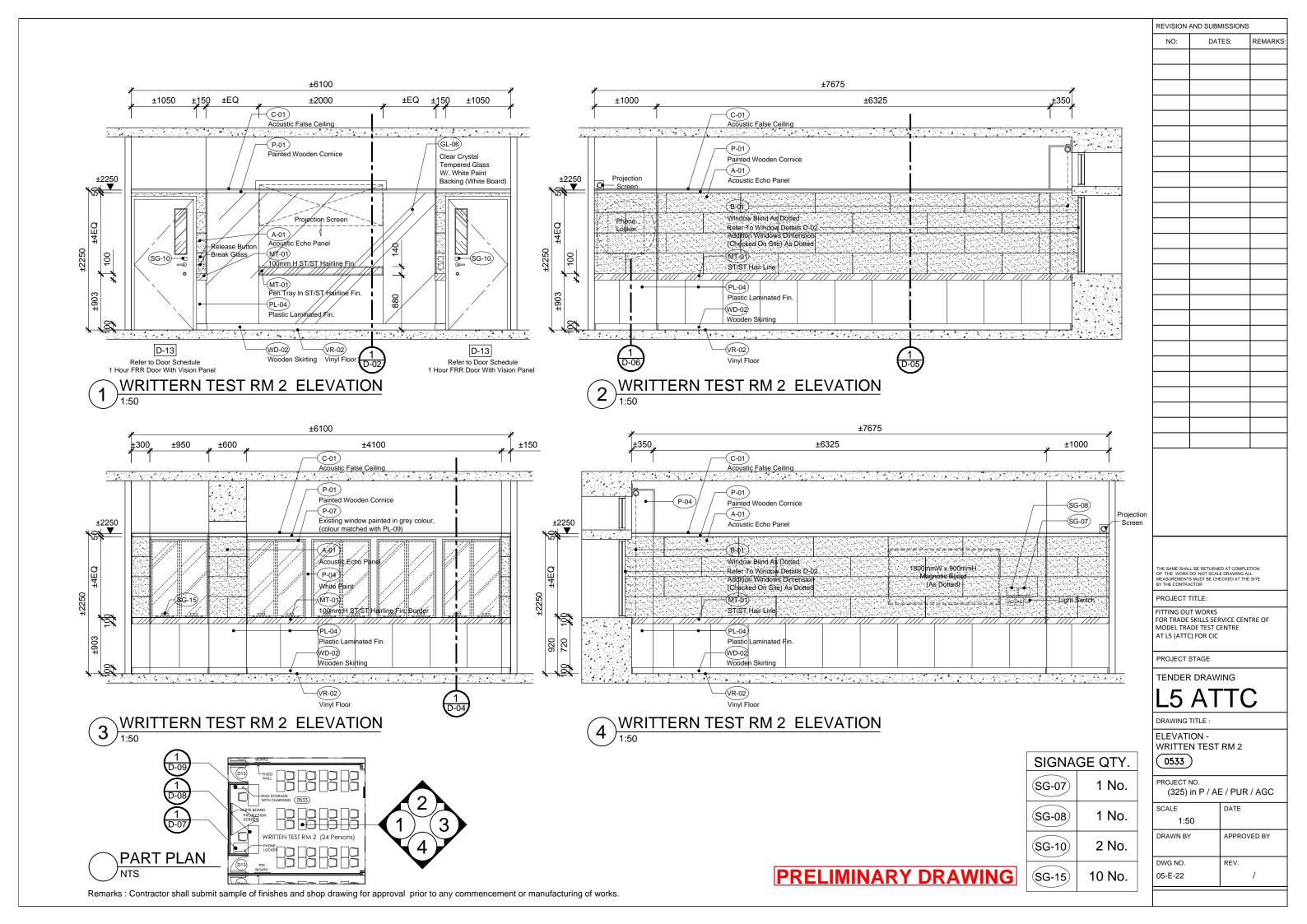
PROJECT NO.

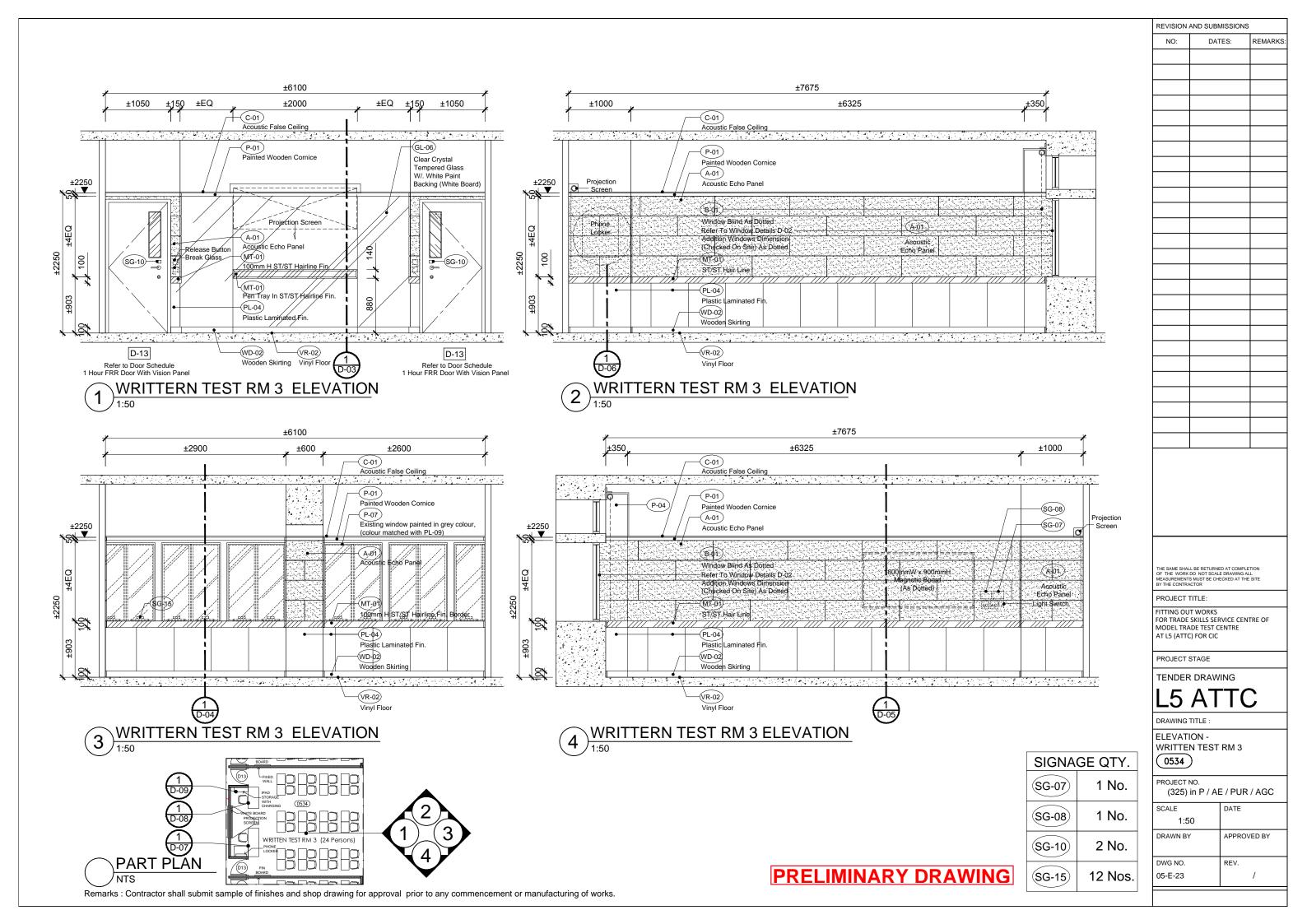
(325) in P / AE / PUR / AGC

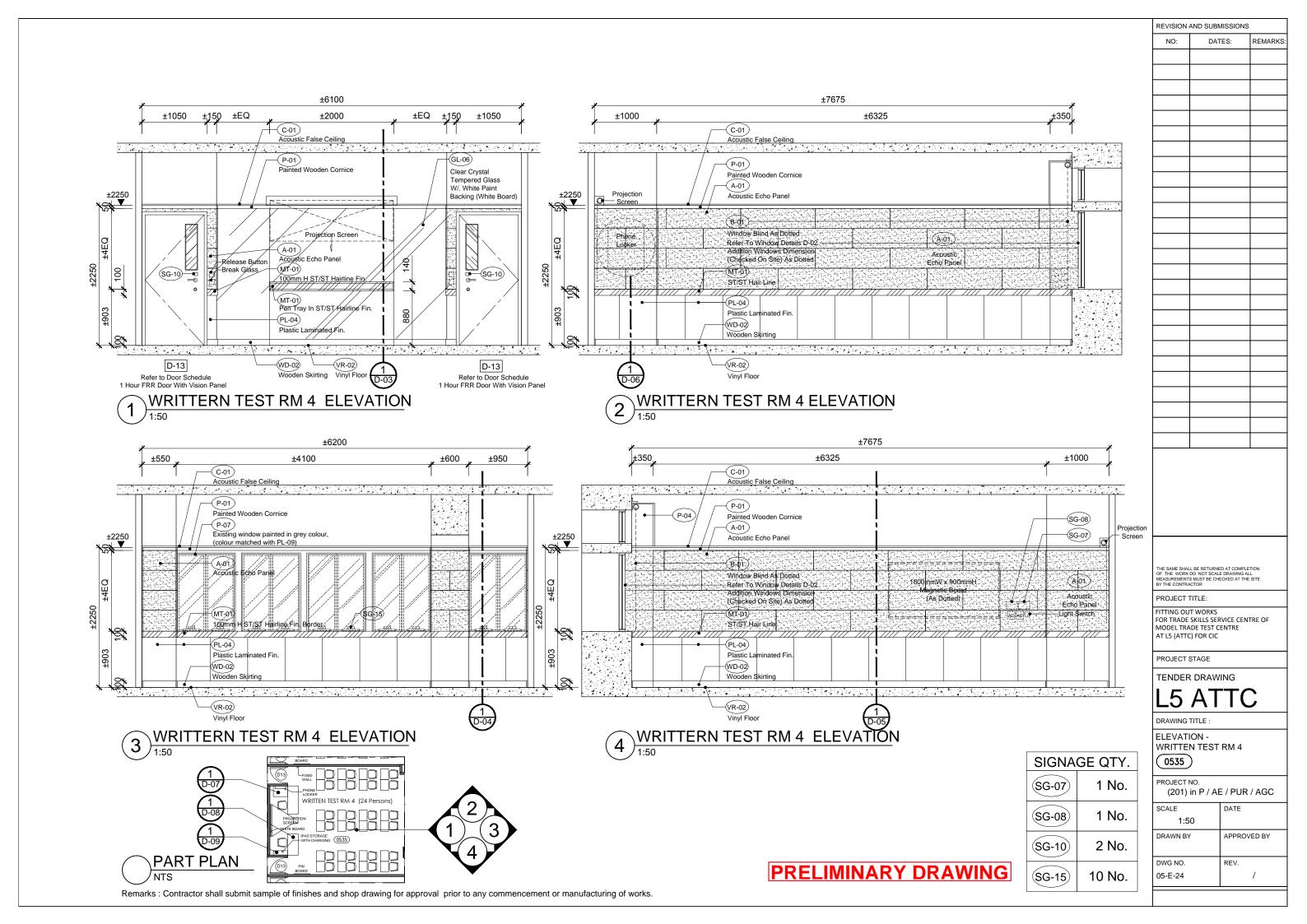
SCALE	DATE
1:50	
DRAWN BY	APPROVED BY
DWG NO.	REV.
05-E-19	/

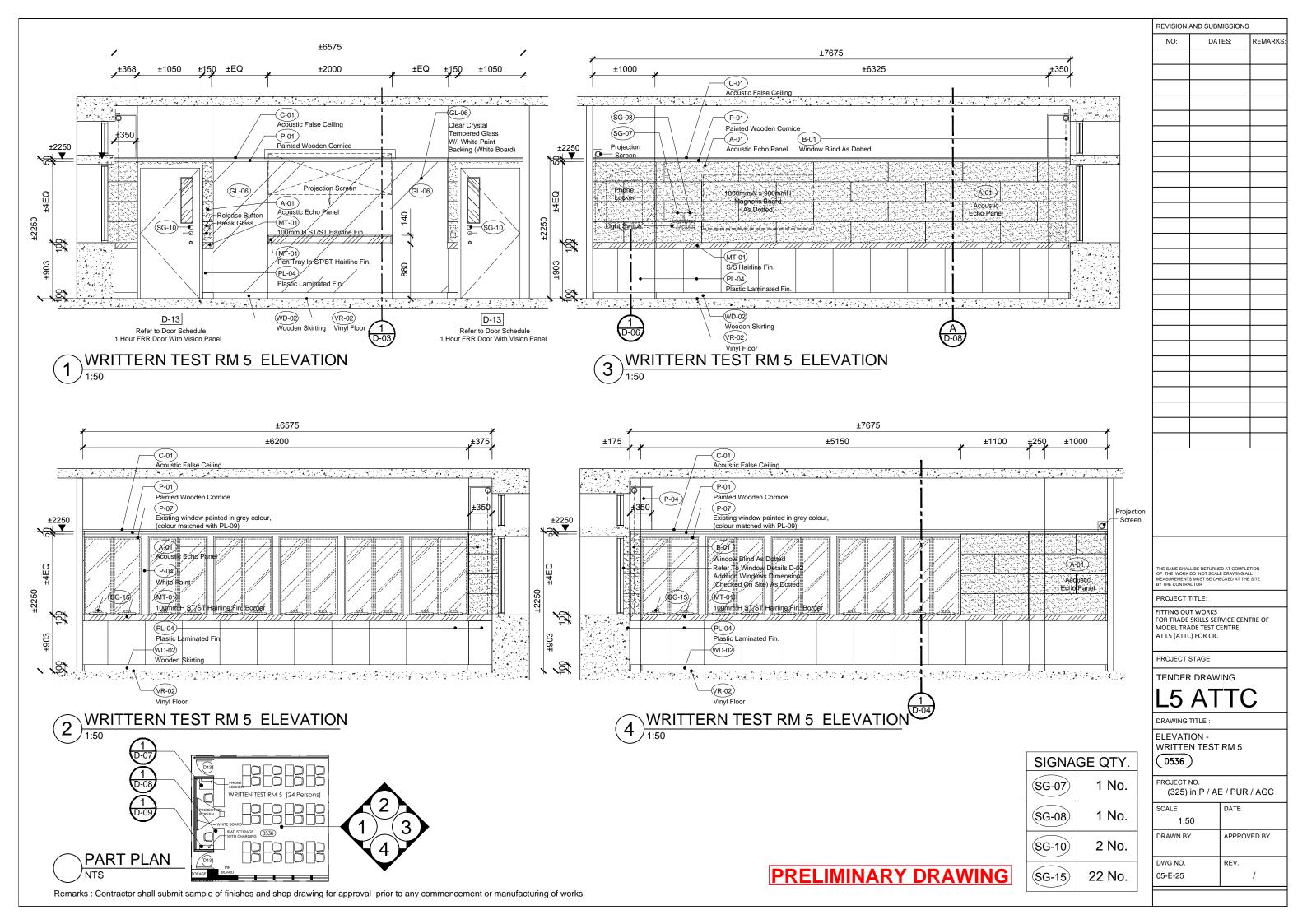


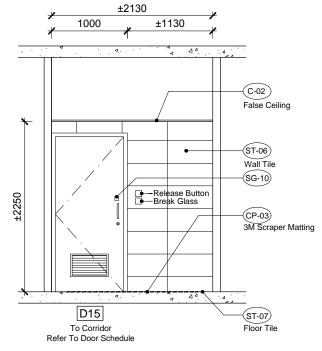




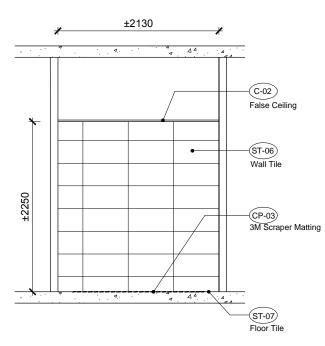




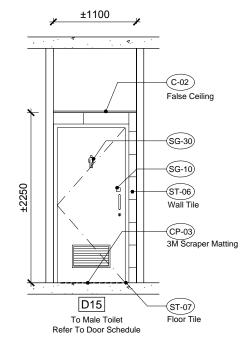




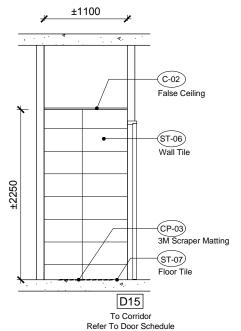
MALE TOILET SMELL LOBBY



MALE TOILET SMELL LOBBY



MALE TOILET SMELL LOBBY



MALE TOILET SMELL LOBBY

PROJECT TITLE: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC PROJECT STAGE

TENDER DRAWING

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

DRAWING TITLE

1:50

DWG NO.

05-E-26

ELEVATION MALE TOILET & CHANGING RM SMELL LOBBY 0514

DATE

REV.

NOTE: DRAWING IN A3 PAPER SIZE

APPROVED BY

PROJECT NO. 1 No. (325) in P / AE / PUR / AGC SCALE 1 No. DRAWN BY

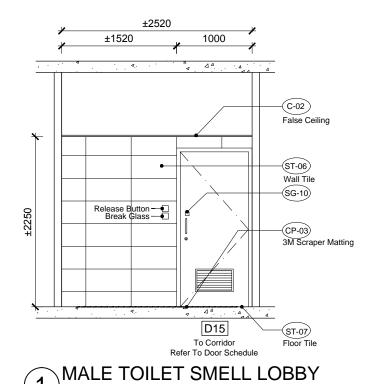
(SG-10) (SG-30)

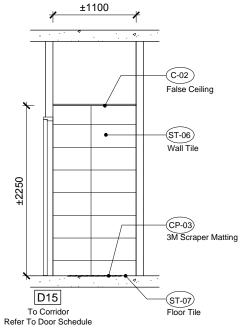
SIGNAGE QTY.

PRELIMINARY DRAWING

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

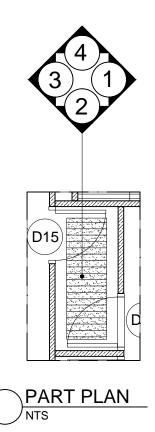
D15

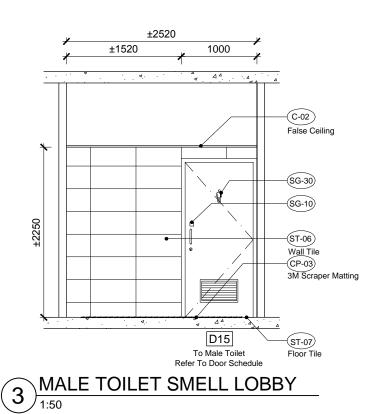




±1105

MALE TOILET SMELL LOBBY $2)\frac{MA}{1:50}$





(C-02) False Ceiling ST-06 Wall Tile -(CP-03) 3M Scraper Matting D15 ST-07 To Male Toilet Refer To Door Schedule

MALE TOILET SMELL LOBBY 4 1:50

SIGNAGE QTY. (SG-10) 1 No. (SG-30) 1 No.

l	

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

DRAWING TITLE

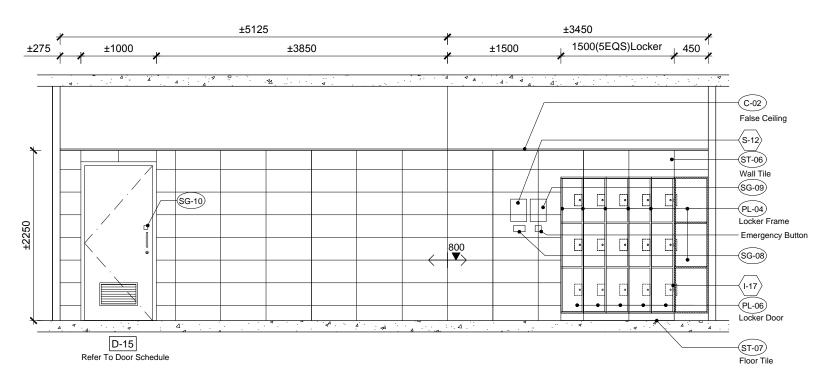
ELEVATION MALE TOILET & CHANGING RM SMELL LOBBY 0515

PROJECT NO.

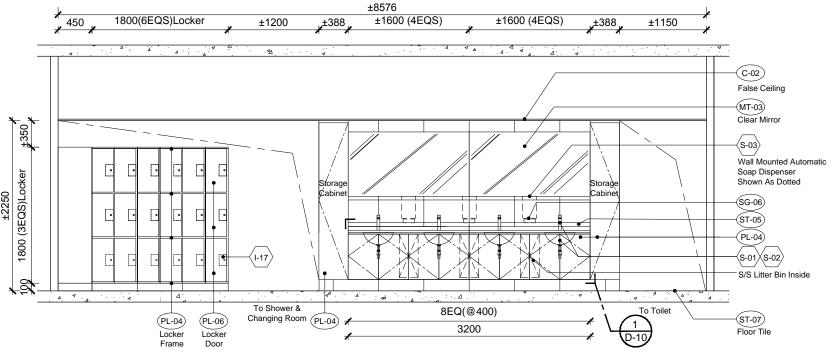
(325) in P / AE / PUR / AGC

DATE SCALE 1:50 DRAWN BY APPROVED BY DWG NO. REV. 05-E-27

NOTE: DRAWING IN A3 PAPER SIZE



1 MALE TOILET & CHANGING ROOM ELEVATION



MALE TOILET & CHANGING ROOM ELEVATION

1:50

SIGNAGE QTY.		
SG-06)	3 No.	
SG-08	1 No.	
SG-09	1 No.	
SG-10	1 No.	

REVISION AND SUBMISSIONS
NO: DATES:

PROJECT TITLE:

PROJECT STAGE

DRAWING TITLE :

SCALE

DWG NO.

05-E-28

1:50 DRAWN BY

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF

ELEVATION MALE TOILET & CHANGING RM

0516 (0517) (0518)

(325) in P / AE / PUR / AGC

DATE

REV.

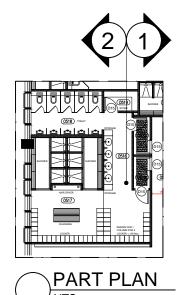
NOTE: DRAWING IN A3 PAPER SIZE

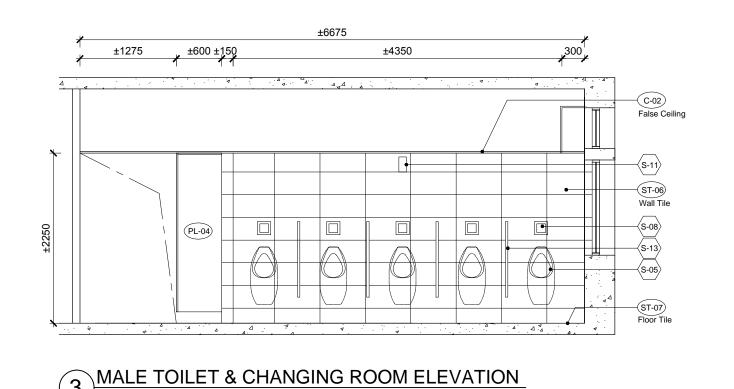
APPROVED BY

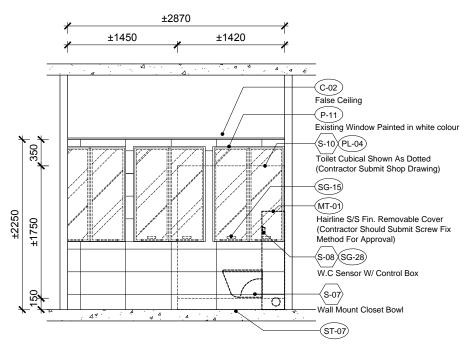
MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

TENDER DRAWING

REMARKS:

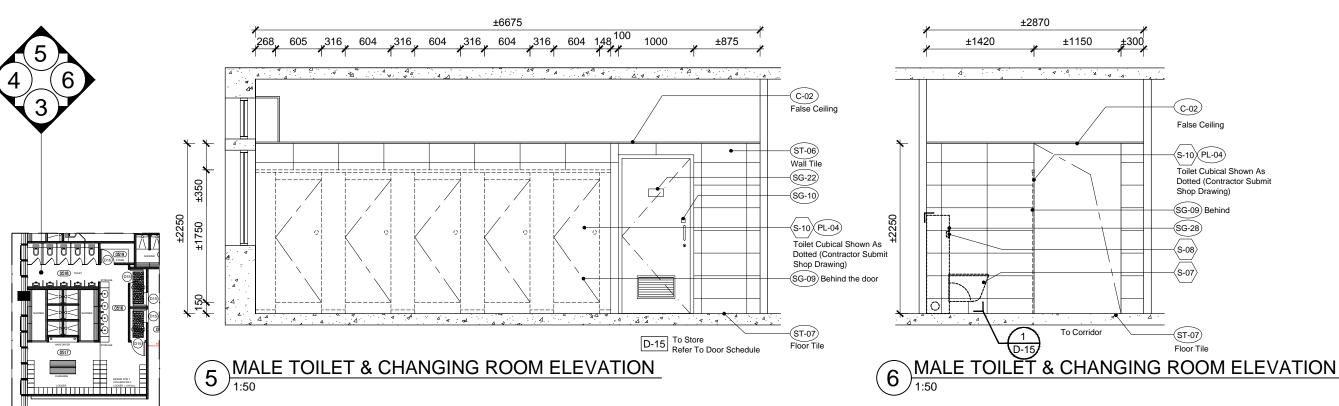






MALE TOILET & CHANGING ROOM ELEVATION

1:50



 SIGNAGE QTY.

 \$G-10
 1 No.

 \$G-22
 1 No.

 \$G-28
 5 No.

DRAWING TITLE:

ELEVATION

BNAGE QTY.

DRAWING TITLE:

ELEVATION
MALE TOILET & CHANGING RM

0516

0518

PROJECT TITLE:

FITTING OUT WORKS

PROJECT STAGE

MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

TENDER DRAWING

FOR TRADE SKILLS SERVICE CENTRE OF

(325) in P / AE / PUR / AGC

SCALE DATE
1:50

DRAWN BY APPROVED BY

DWG NO. REV.
05-E-29 /

NOTE: DRAWING IN A3 PAPER SIZE

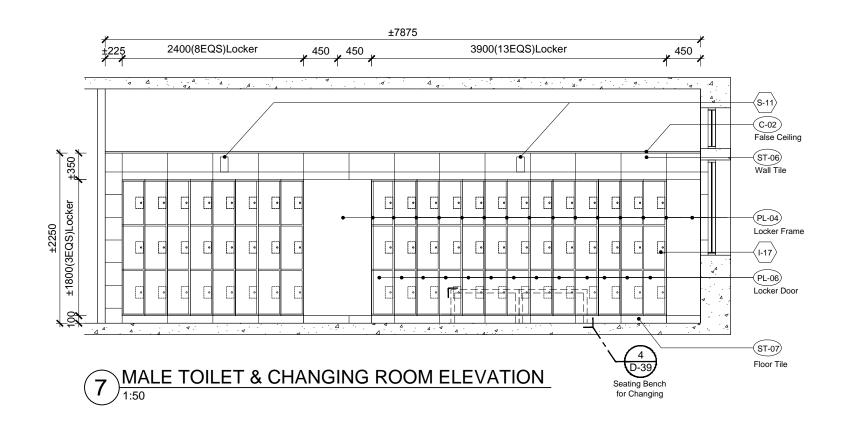
REVISION AND SUBMISSIONS

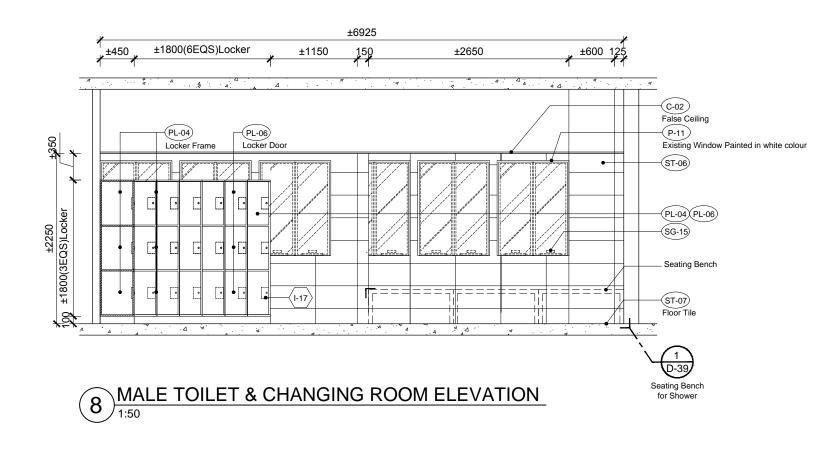
DATES:

REMARKS:

NO:

PRELIMINARY DRAWING





SIGNAGE QTY.

SG-15

12 No.

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE :

ELEVATION
MALE TOILET & CHANGING RM

0516 0517

PROJECT NO.

(325) in P / AE / PUR / AGC

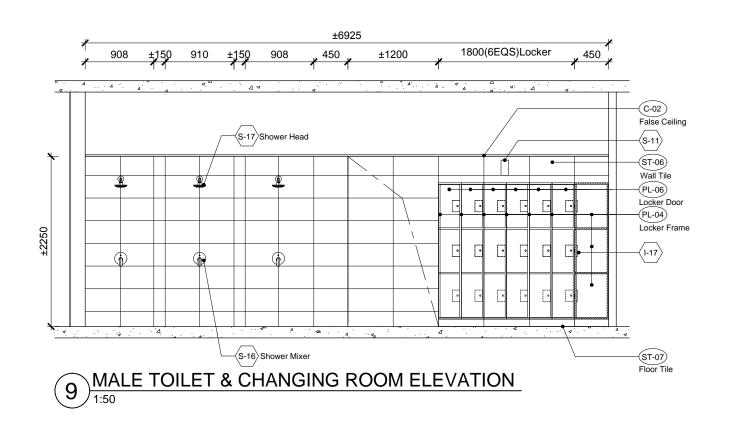
SCALE DATE
1:50

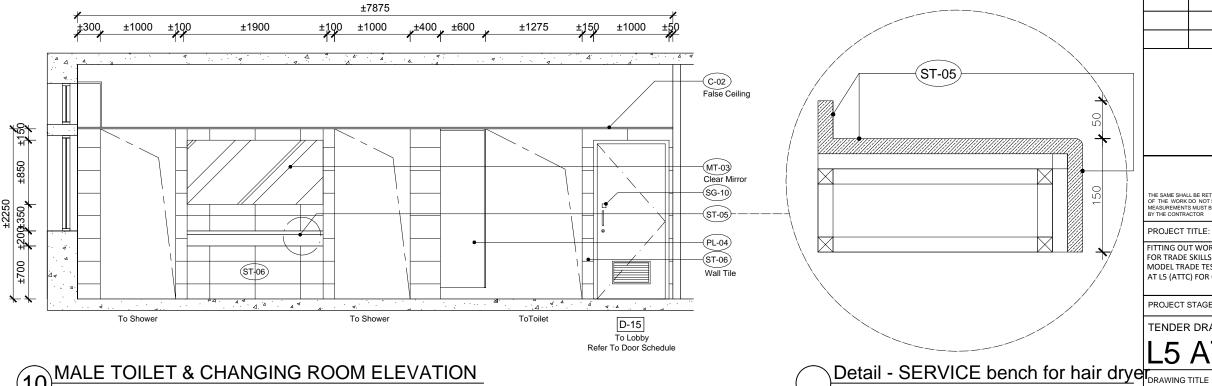
DRAWN BY APPROVED BY

DWG NO. REV.
05-E-30 /

NOTE: DRAWING IN A3 PAPER SIZE

PRELIMINARY DRAWING





MALE TOILET & CHANGING ROOM ELEVATION

1:50

SIGNAGE QTY. (SG-10) 1 No.

PRELIMINARY DRAWING

(325) in P / AE / PUR / AGC SCALE DATE 1:50 DRAWN BY APPROVED BY DWG NO. REV. 05-E-31

PROJECT TITLE:

PROJECT STAGE

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF

ELEVATION MALE TOILET & CHANGING RM

MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

TENDER DRAWING

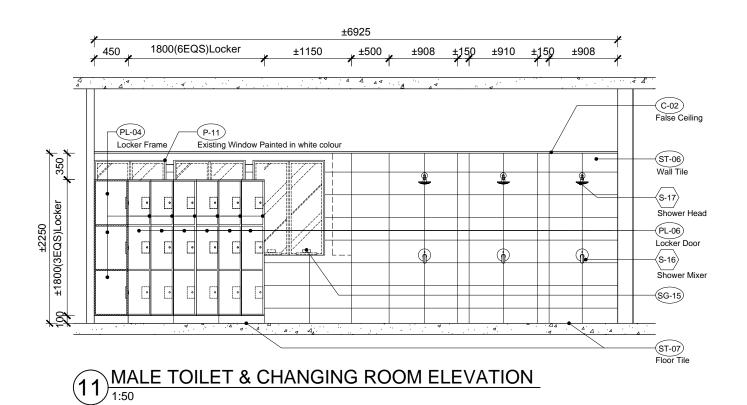
0516 (0517)

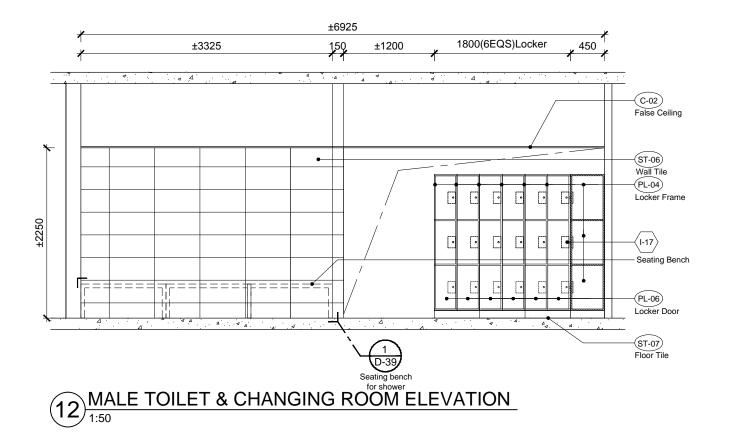
NOTE: DRAWING IN A3 PAPER SIZE

REVISION AND SUBMISSIONS

DATES:

REMARKS:





PART PLAN

(SG-15) 6 No.

PRELIMINARY DRAWING

SIGNAGE QTY.

TENDER DRAWING DRAWING TITLE :

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT TITLE:

PROJECT STAGE

REVISION AND SUBMISSIONS

DATES:

REMARKS:

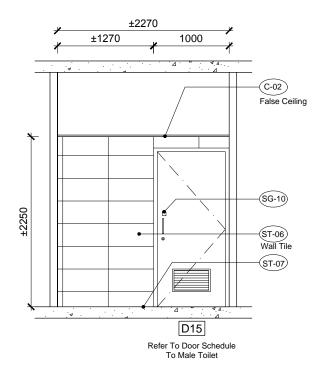
NO:

ELEVATION MALE TOILET & CHANGING RM 0517

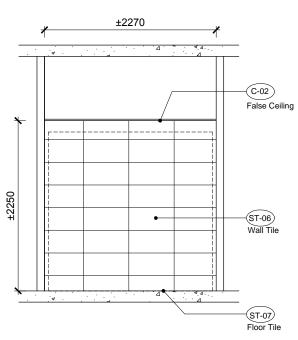
PROJECT NO. (325) in P / AE / PUR / AGC

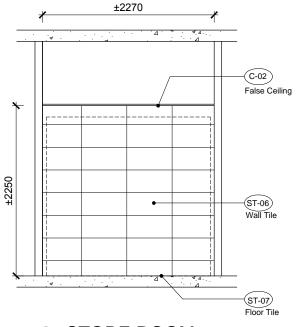
SCALE DATE 1:50 DRAWN BY APPROVED BY DWG NO. REV. 05-E-32

NOTE: DRAWING IN A3 PAPER SIZE



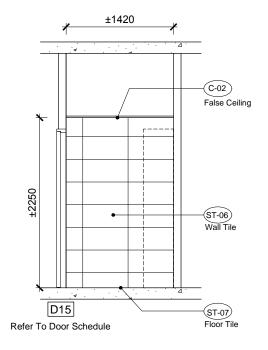


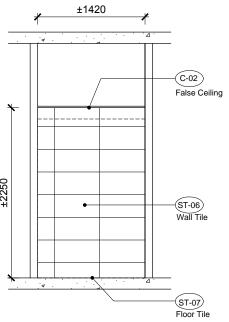




STORE ROOM

1:50





STORE ROOM

SIGNAGE QTY. (SG-10) 1 No.

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

DRAWING TITLE :

ELEVATION
MALE TOILET & CHANGING RM
(STORE ROOM) 0519

PROJECT NO.

(325) in P / AE / PUR / AGC

SCALE DATE 1:50 DRAWN BY APPROVED BY DWG NO. REV. 05-E-33

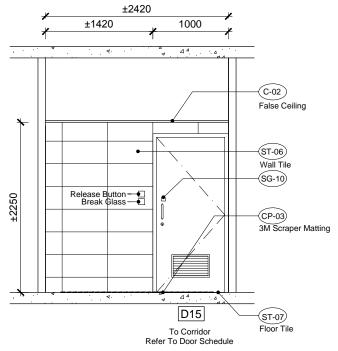
NOTE: DRAWING IN A3 PAPER SIZE

PRELIMINARY DRAWING

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

(D15)

STORE

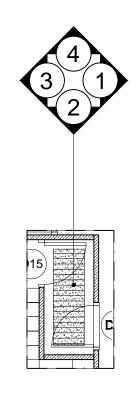


(C-02) False Ceiling ST-06 Wall Tile (CP-03) 3M Scraper Matting D15 To Corridor Refer To Door Schedule

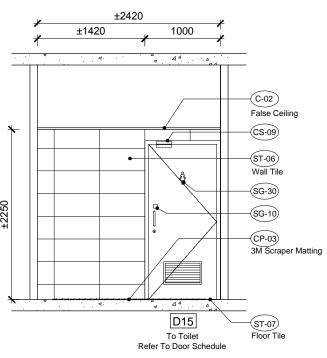
±1050

FEMALE TOILET SMELL LOBBY

FEMALE TOILET SMELL LOBBY



PART PLAN



±1050 (C-02) False Ceiling ST-06 Wall Tile CP-03 3M Scraper Matting D15 To Toilet Refer To Door Schedule

FEMALE TOILET SMELL LOBBY 3

FEMALE TOILET SMELL LOBBY 1:50

SIGNAGE QTY. (SG-10) 2 No. (SG-30) 1 No.

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

PROJECT STAGE

DRAWING TITLE :

0520

PROJECT NO.

1:50 DRAWN BY

SCALE

DWG NO.

05-E-34

ELEVATION FEMALE TOILET &

CHANGING RM(SMELL LOBBY)

(325) in P / AE / PUR / AGC

DATE

REV.

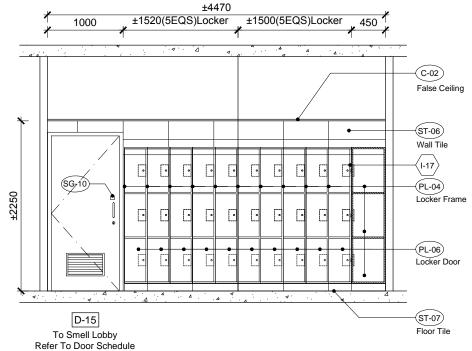
NOTE: DRAWING IN A3 PAPER SIZE

APPROVED BY

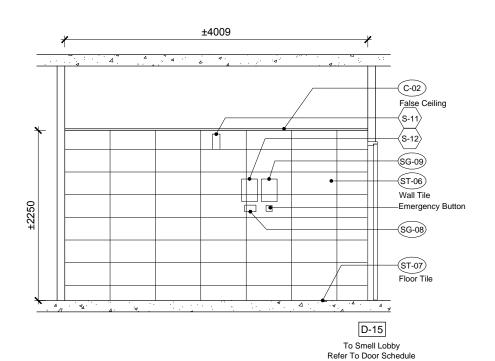
TENDER DRAWING

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

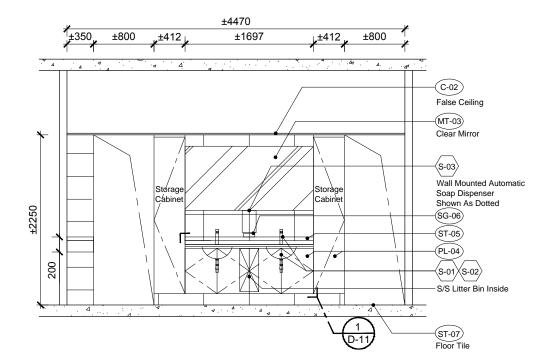
Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of work	S.
--	----



1 FEMALE TOILET & CHANGING ROOM ELEVATION

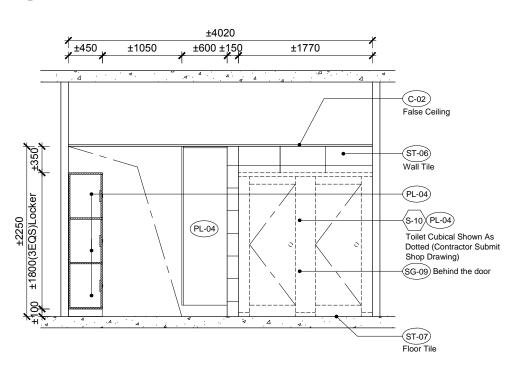


4 FEMALE TOILET & CHANGING ROOM ELEVATION



2 FEMALE TOILET & CHANGING ROOM ELEVATION

1:50



3 FEMALE TOILET & CHANGING ROOM ELEVATION

SIGNAC		GE QTY.
	SG-07	1 No.
	SG-08	1 No.
	SG-09	1 No.
	SG-10	2 No.
	SG-15	23 No.

PRELIMINARY DRAWING SG-19

		I
PROJECT FITTING OUT FOR TRADE MODEL TRA	TITLE: IT WORKS SKILLS SERVICE CENTADE TEST CENTRE	SITE
PROJECT FITTING OL	IS MUST BE CHECKED AT THE ACTOR TITLE: IT WORKS SKILLS SERVICE CENTA ADE TEST CENTRE C) FOR CIC	SITE
MEASUREMENT BY THE CONTR. PROJECT FITTING OL FOR TRADE MODEL TRA AT L5 (ATTO	IS MUST BE CHECKED AT THE ACTOR TITLE: IT WORKS SKILLS SERVICE CENTA ADE TEST CENTRE C) FOR CIC	SITE
MEASUREMENT BY THE CONTR. PROJECT FITTING OL FOR TRADE MODEL TRA AT L5 (ATTO	IS MUST BE CHECKED AT THE ACTOR TITLE: IT WORKS SKILLS SERVICE CENTA ADE TEST CENTRE C) FOR CIC STAGE	SITE
MEASUREMENT BY THE CONTR. PROJECT FITTING OL FOR TRADE MODEL TRA AT L5 (ATTO	IS MUST BE CHECKED AT THE ACTOR TITLE: ST SKILLS SERVICE CENTADE TEST CENTRE C) FOR CIC STAGE R DRAWING ATT ATT ATT ATT ATT ATT ATT A	SITE
MEASUREMENT BY THE CONTR. PROJECT FITTING OLD FOR TRADE MODEL TR. AT L5 (ATTO PROJECT TENDER L5 DRAWING ELEVATI	IS MUST BE CHECKED AT THE ACTOR TITLE: IT WORKS SKILLS SERVICE CENTA ADE TEST CENTRE C) FOR CIC STAGE R DRAWING ATT TITLE:	TRE OF

PROJECT NO.

1:50 DRAWN BY

SCALE

DWG NO.

05-E-35

(325) in P / AE / PUR / AGC

DATE

REV.

NOTE: DRAWING IN A3 PAPER SIZE

APPROVED BY

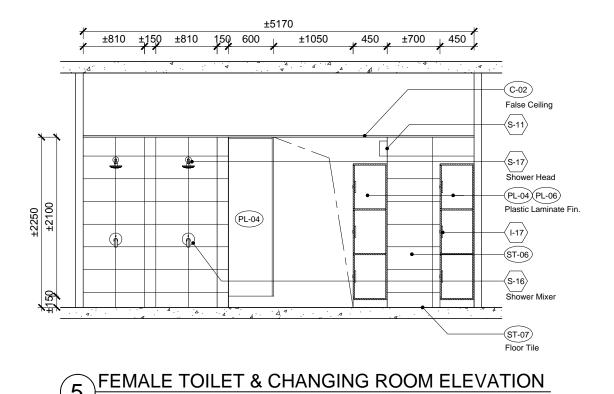
REVISION AND SUBMISSIONS

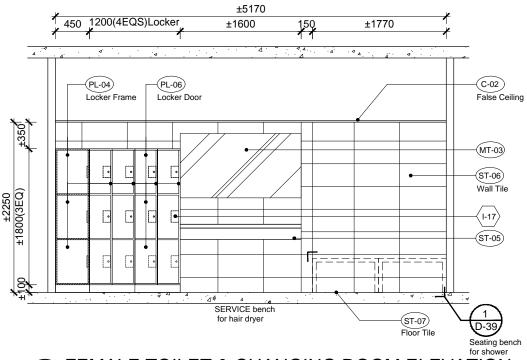
DATES:

REMARKS:

NO:

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.





FEMALE TOILET & CHANGING ROOM ELEVATION

1:50

PART PLAN

SIGNAGE QTY.		

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR	

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

DRAWING TITLE :

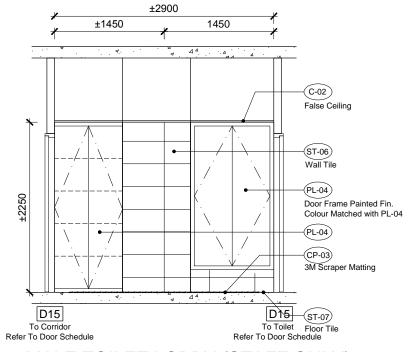
ELEVATION FEMALE TOILET&CHANGING RM

0521) (0522

PROJECT NO. (325) in P / AE / PUR / AGC

SCALE DATE 1:50 DRAWN BY APPROVED BY DWG NO. REV. 05-E-36

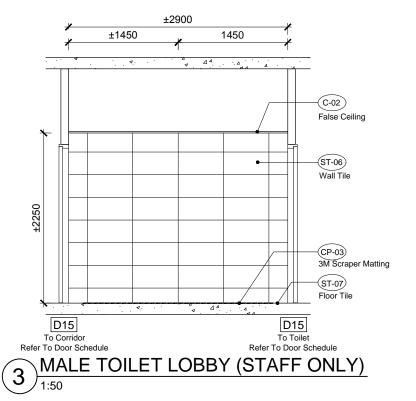
NOTE: DRAWING IN A3 PAPER SIZE

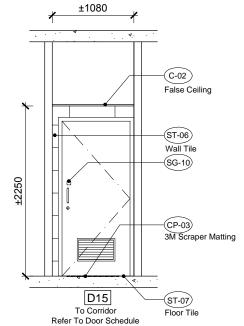


±1080 -(C-02) False Ceiling -(ST-06) Wall Tile -(SG-30) +2250 (SG-10) (CP-03) 3M Scraper Matting D15 To Toilet Refer To Door Schedule

MALE TOILET LOBBY (STAFF ONLY)

MALE TOILET LOBBY (STAFF ONLY)





MALE TOILET LOBBY (STAFF ONLY)

SIGNAGE QTY. (SG-10) (SG-30)

2 No. 1 No.

PRELIMINARY DRAWING

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

STORAGE

PART PLAN

(D15)

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR				
PROJECT TITLE:				

FITTING OUT WORKS

PROJECT STAGE

DRAWING TITLE : ELEVATION

0524 PROJECT NO.

SCALE

DWG NO.

05-E-37

1:50 DRAWN BY

TENDER DRAWING

FOR TRADE SKILLS Service CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

MALE TOILET & CHANGING RM (SMELL LOBBY) STAFF ONLY

(325) in P / AE / PUR / AGC DATE

APPROVED BY

REV.

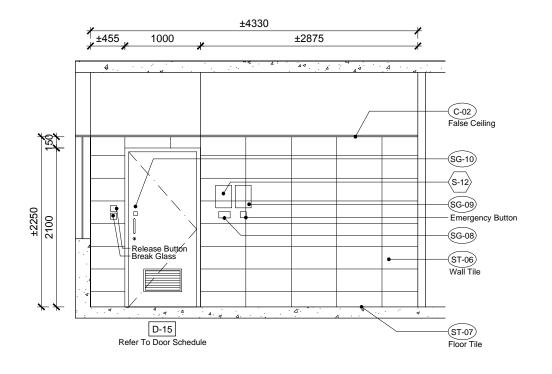
NOTE: DRAWING IN A3 PAPER SIZE

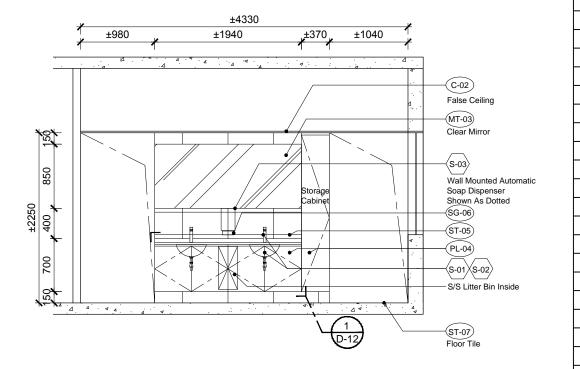
REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

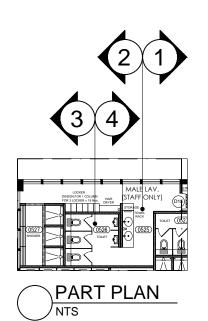


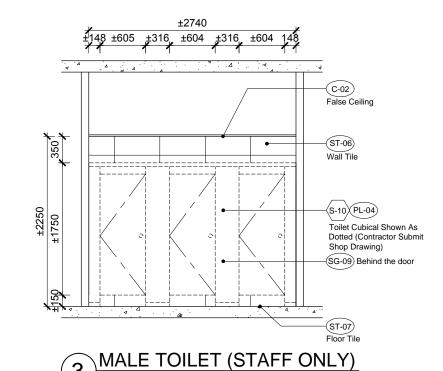


MALE TOILET (STAFF ONLY)

MALE TOILET (STAFF ONLY)

1:50





MALE TOILET (STAFF ONLY) 4

SIGNA	GE QTY.
SG-06	2 No.
SG-08	1 No.
SG-09	4 No.
(SG-10)	1 No.

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

PROJECT STAGE

DRAWING TITLE

(STAFF ONLY)

1:50 DRAWN BY

SCALE

DWG NO.

05-E-38

0525 (0526)

TENDER DRAWING

L5 ATTC

ELEVATION MALE TOILET & CHANGING RM

() in P / AE / PUR / AGC

DATE

REV.

NOTE: DRAWING IN A3 PAPER SIZE

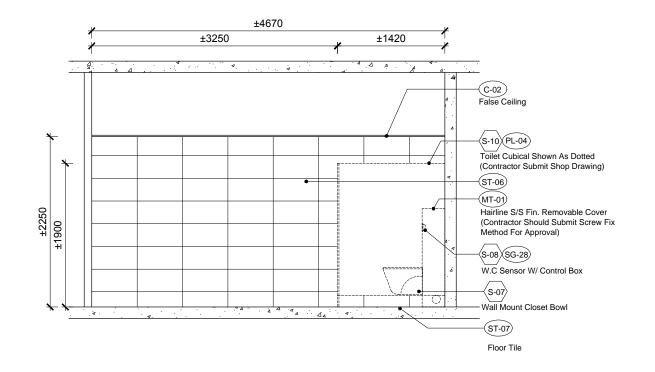
APPROVED BY

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

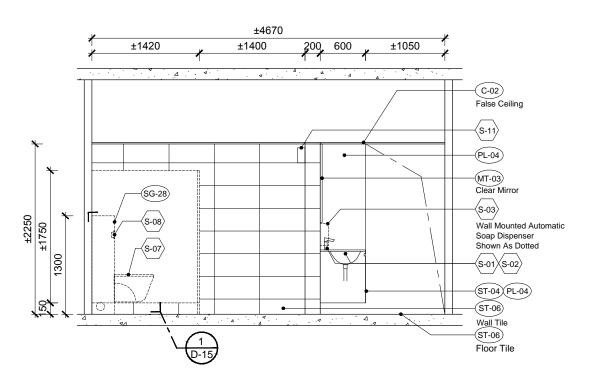
±2740 ±1760 ±980	
C-02 False Cei S-11 ST-06 Wall Tile S-08 S-13 S-05 S-05	

PRELIMINARY DRAWING

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.



5 MALE TOILET (STAFF ONLY)



6 MALE TOILET (STAFF ONLY)

(SG-28) 3 No.

SIGNAGE QTY.

NO:	DATES:	REMARK
_		

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE :

ELEVATION MALE TOILET & CHANGING RM (STAFF ONLY)

0525 0526

PROJECT NO.

(325) in P / AE / PUR / AGC

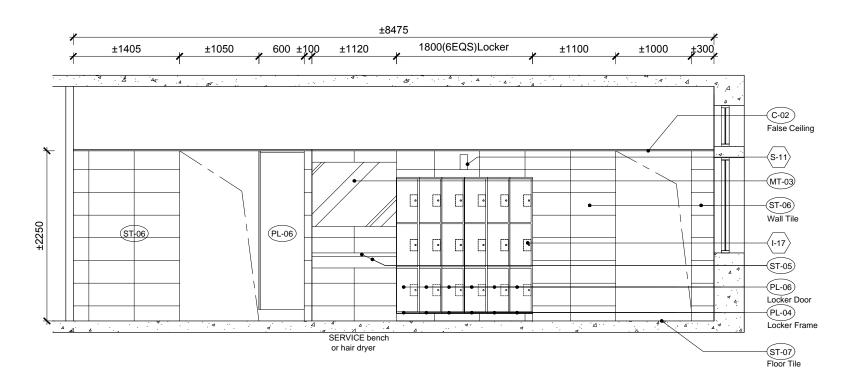
DATE SCALE 1:50 DRAWN BY APPROVED BY DWG NO. REV. 05-E-39

NOTE: DRAWING IN A3 PAPER SIZE

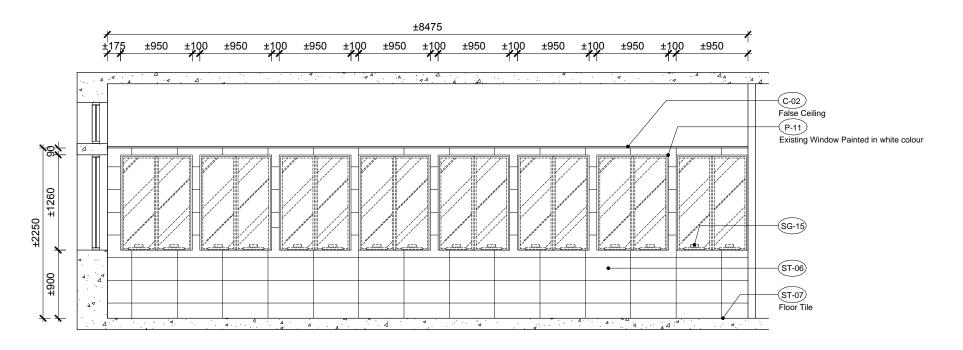
PRELIMINARY DRAWING

PART PLAN

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.



7 MALE TOILET (STAFF ONLY) 1:50



PART PLAN

8 MALE TOILET (STAFF ONLY)

SG-15 16 No.

SIGNAGE QTY.

REVISION AND SUBMISSIONS		
NO:	DATES:	REMARKS:

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT LS (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE :

ELEVATION
MALE TOILET & CHANGING RM
(STAFF ONLY)

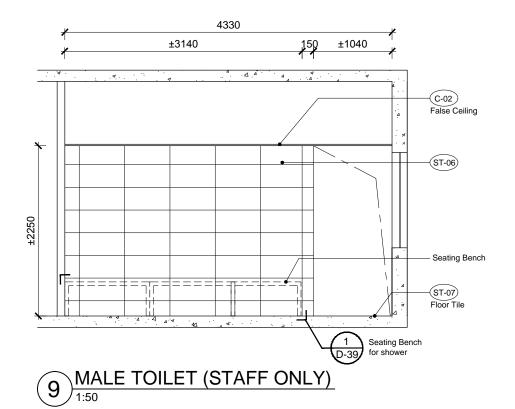
0525 0527

PROJECT NO.

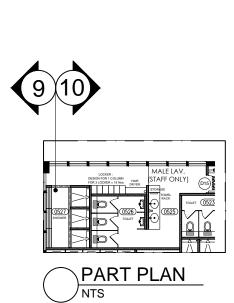
(325) in P / AE / PUR / AGC

SCALE	DATE
1:50	
DRAWN BY	APPROVED BY
DWG NO.	REV.
05-E-40	/

NOTE: DRAWING IN A3 PAPER SIZE



±4330 ±150 ±1040 ±940 ±950 ±950 (C-02) False Ceiling (ST-06) Wall Tile S-17 Shower Head S-16 10 MALE TOILET (STAFF ONLY)



PRELIMINARY DRAWING

SIGNAGE QTY.

REVISION AND SUBMISSIONS NO: DATES: REMARKS:

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS Service CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

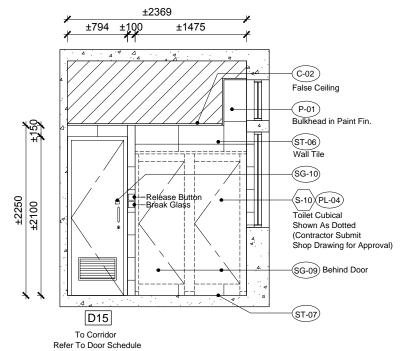
ELEVATION MALE TOILET & CHANGING RM (STAFF ONLY) 0527

PROJECT NO.

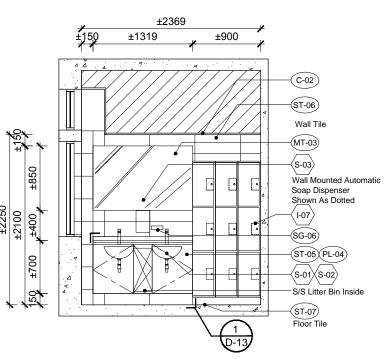
(325) in P / AE / PUR / AGC

SCALE DATE 1:50 DRAWN BY APPROVED BY DWG NO. REV. 05-E-41

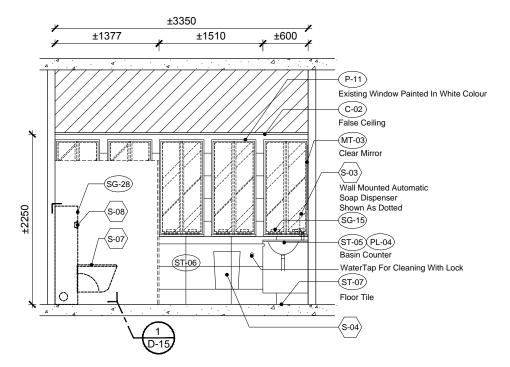
NOTE: DRAWING IN A3 PAPER SIZE



FEMALE TOILET (STAFF ONLY)



FEMALE TOILET (STAFF ONLY)



REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

FITTING OUT WORKS

PROJECT STAGE

DRAWING TITLE :

0528 PROJECT NO.

1:50 DRAWN BY

SCALE

DWG NO.

05-E-42

MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

TENDER DRAWING

L5 ATTC

ELEVATION FEMALE TOILET (STAFF ONLY)

(325) in P / AE / PUR / AGC

DATE

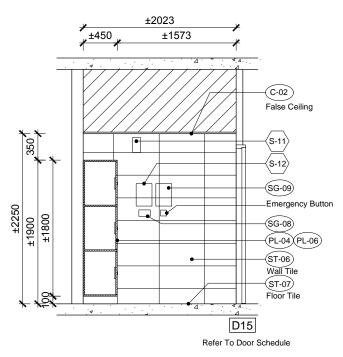
REV.

NOTE: DRAWING IN A3 PAPER SIZE

APPROVED BY

FOR TRADE SKILLS SERVICE CENTRE OF

PEMALE TOILET (STAFF ONLY) 1:50



FEMALE TOILET (STAFF ONLY)

SIGNA	SIGNAGE QTY.		
SG-06	1 No.	SG-15	10 No.
SG-08	1 No.	SG-28	2 No.
SG-09	1 No.		
SG-10	1 No.		

PRELIMINARY DRAWING

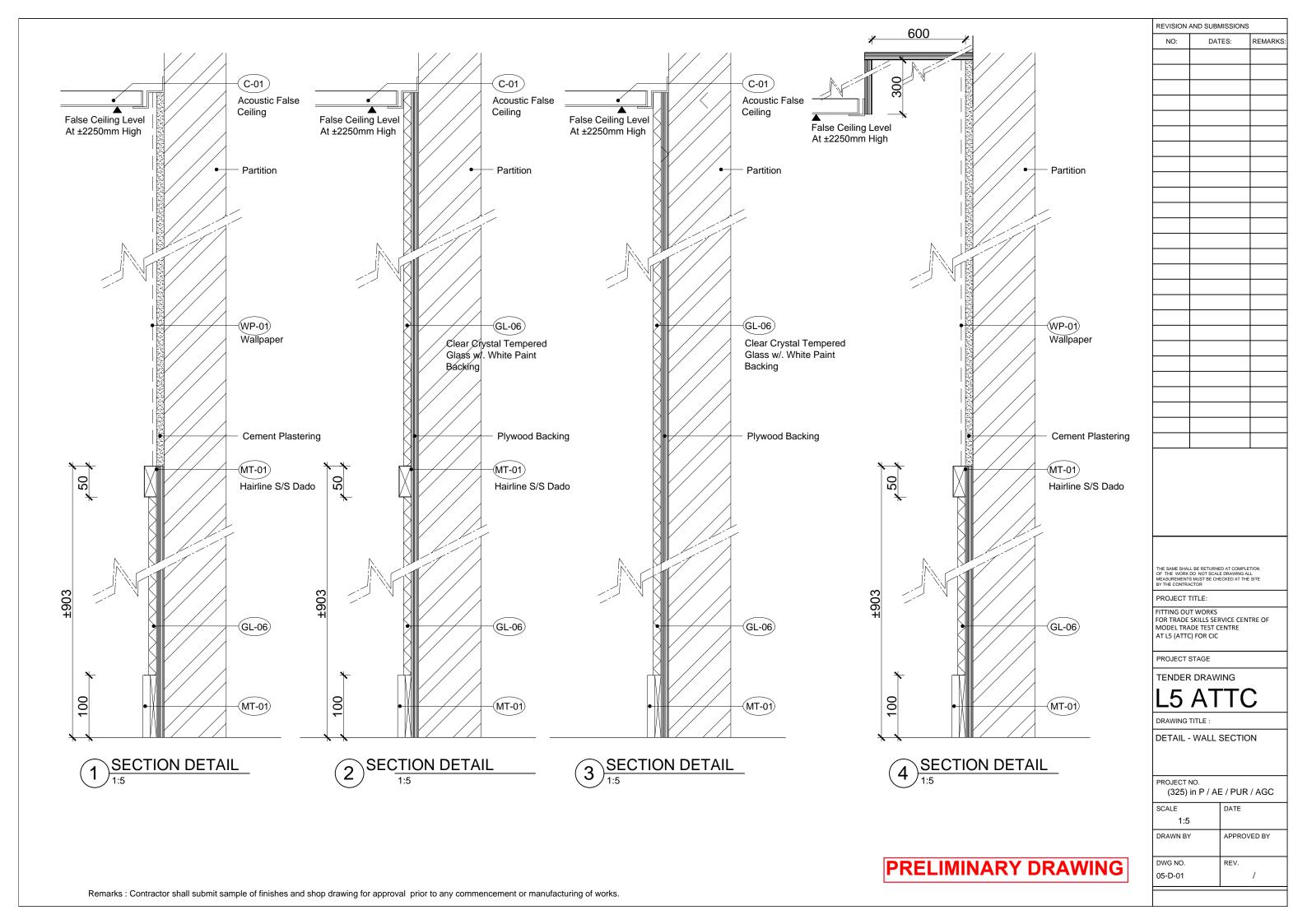
П		
П	Pemarke: Contractor shall submit sample of finishes and shop dra	wing for approval prior to any commencement or manufacturing of works.
П	Remarks. Contractor shall subtrit sample of finishes and shop dia	wing for approval prior to any confinencement of mandiacturing of works.

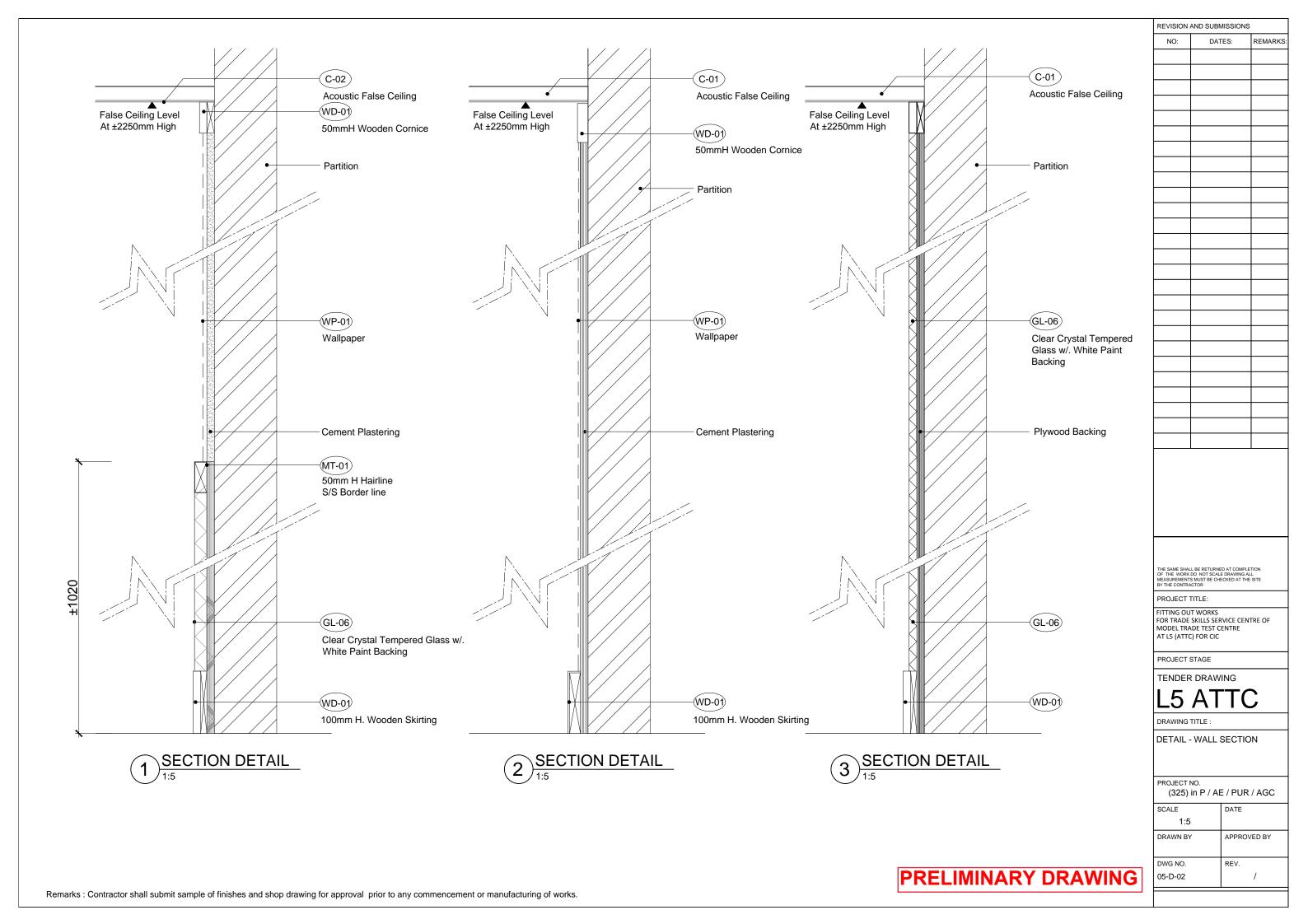
•

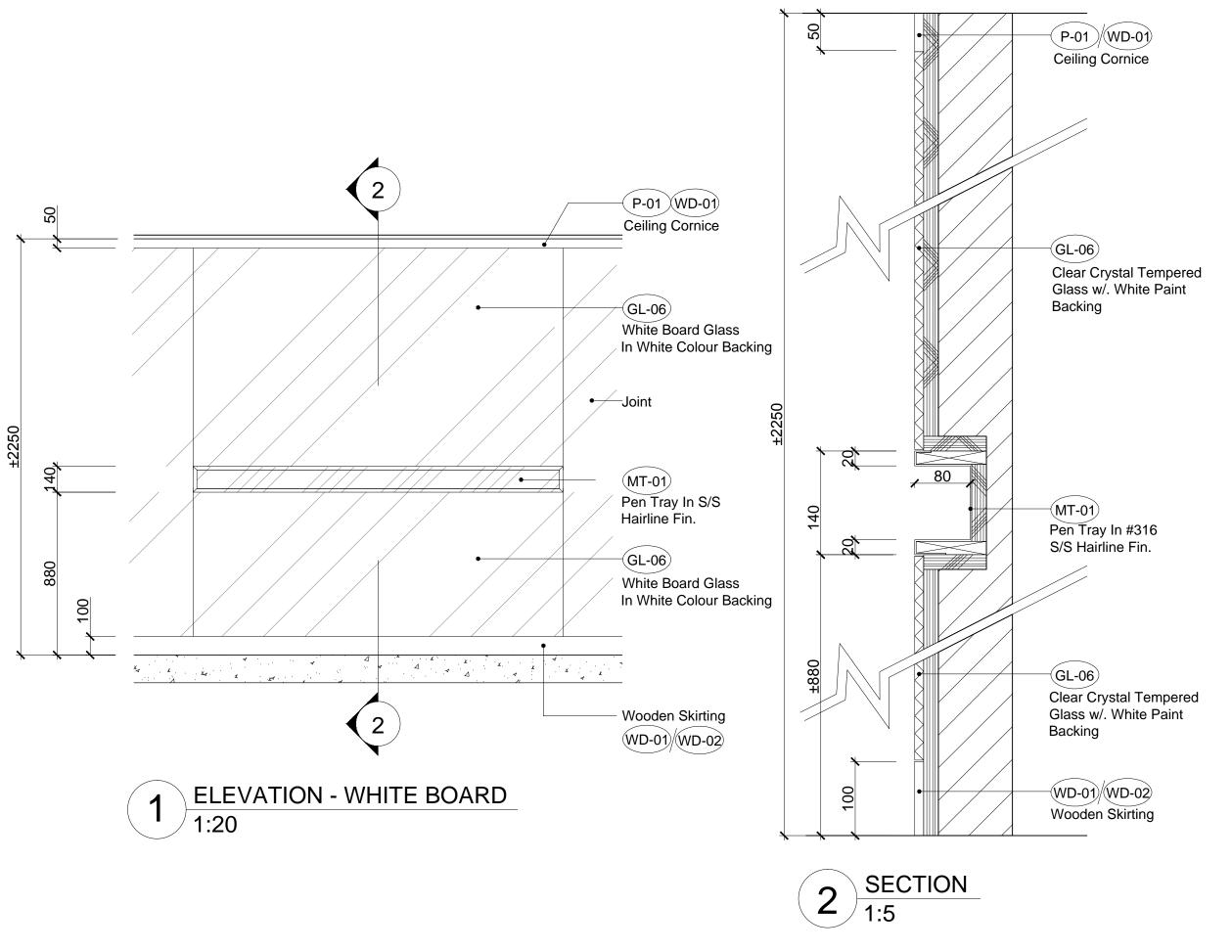
| | HAND

TOWEL RACK

(D15)







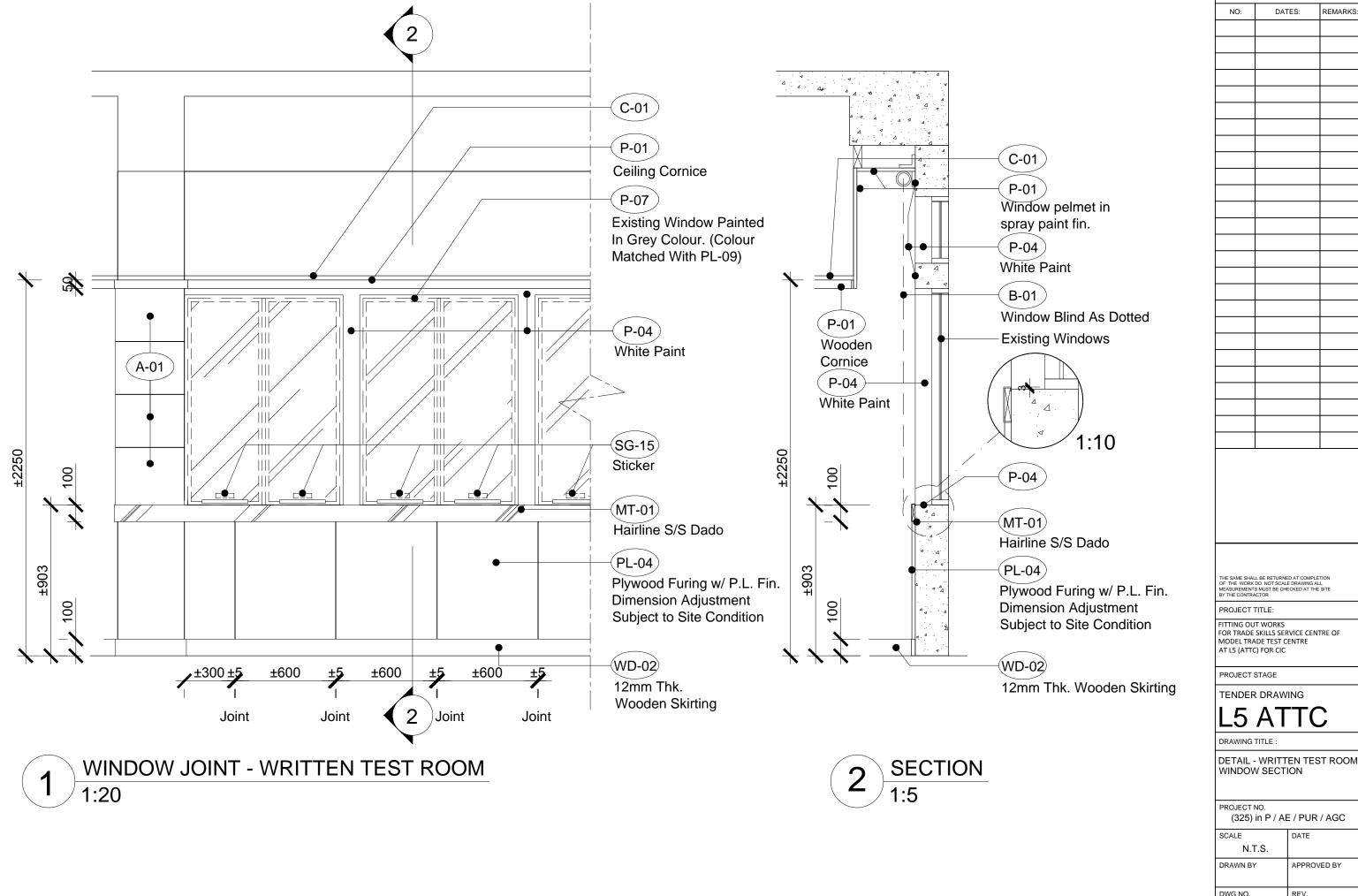
PROJECT TITLE: FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC PROJECT STAGE TENDER DRAWING DRAWING TITLE : DETAIL - WHITE BOARD PROJECT NO. (325) in P / AE / PUR / AGC SCALE DATE N.T.S. DRAWN BY APPROVED BY DWG NO. REV. **PRELIMINARY DRAWING** 05-D-03

REVISION AND SUBMISSIONS

DATES:

REMARKS:

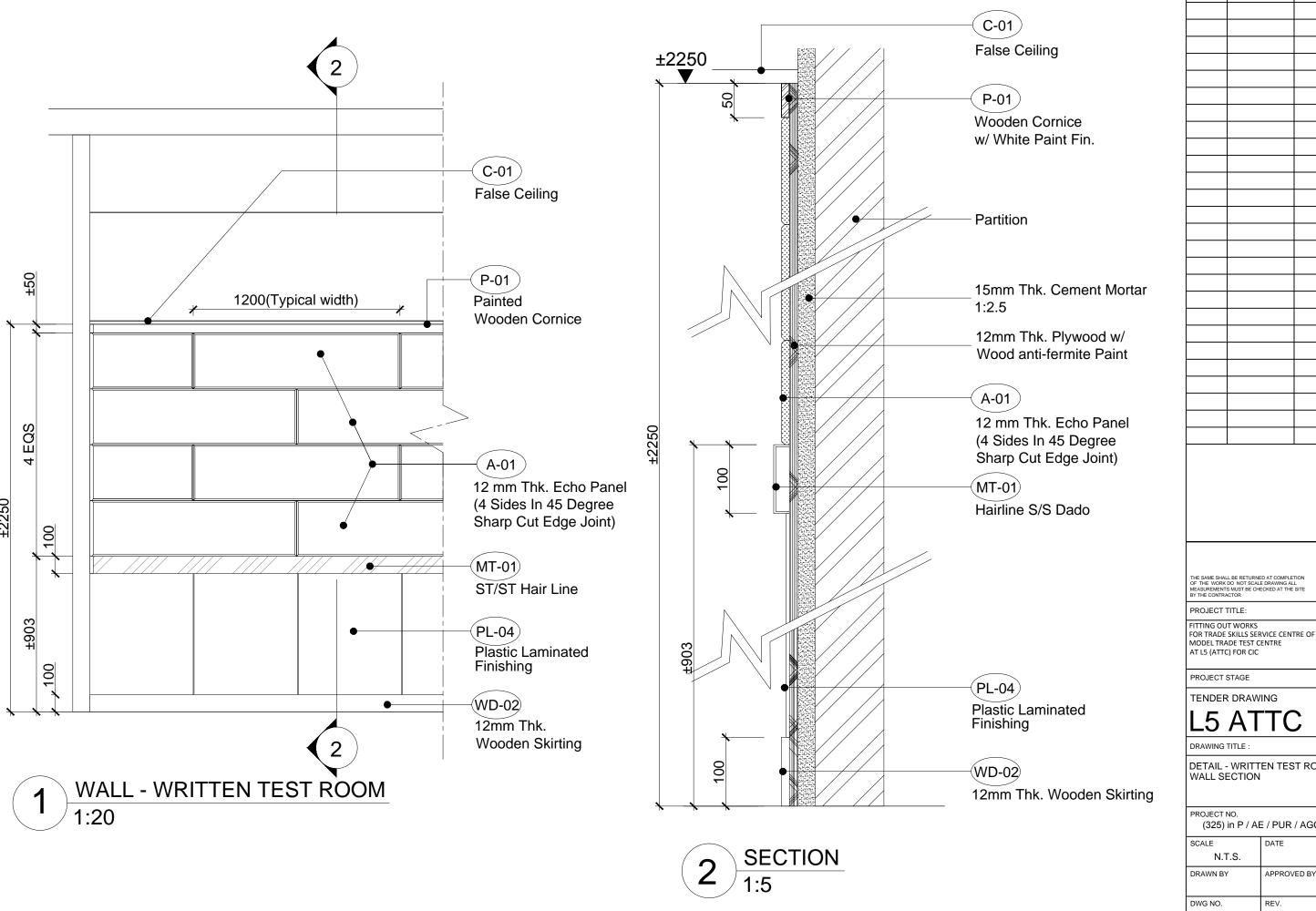
Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.



(325) in P / AE / PUR / AGC DATE APPROVED BY DWG NO. REV. 05-D-04 PRELIMINARY DRAWING

REVISION AND SUBMISSIONS

REMARKS:



PRELIMINARY DRAWING

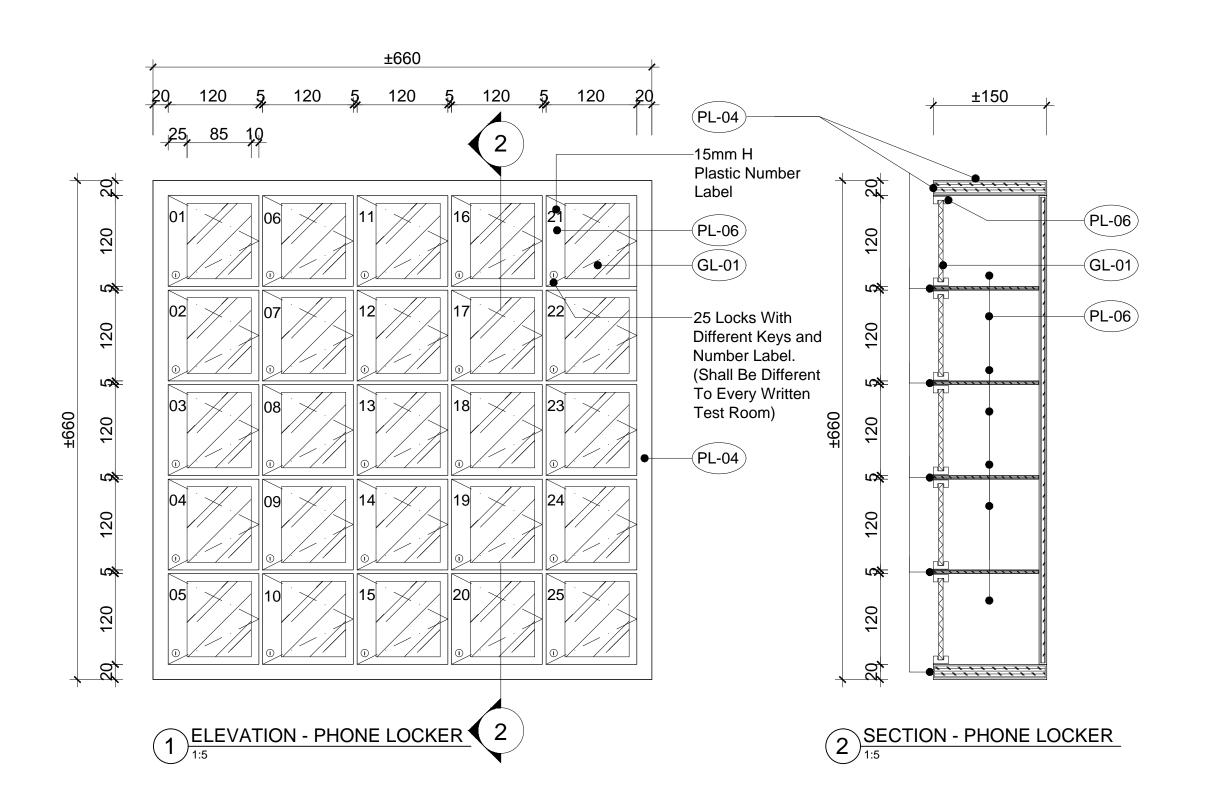
DETAIL - WRITTEN TEST ROOM WALL SECTION PROJECT NO. (325) in P / AE / PUR / AGC SCALE DATE N.T.S. DRAWN BY APPROVED BY DWG NO. REV. 05-D-05

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:



REVISION AND SUBMISSIONS DATES: REMARKS:

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

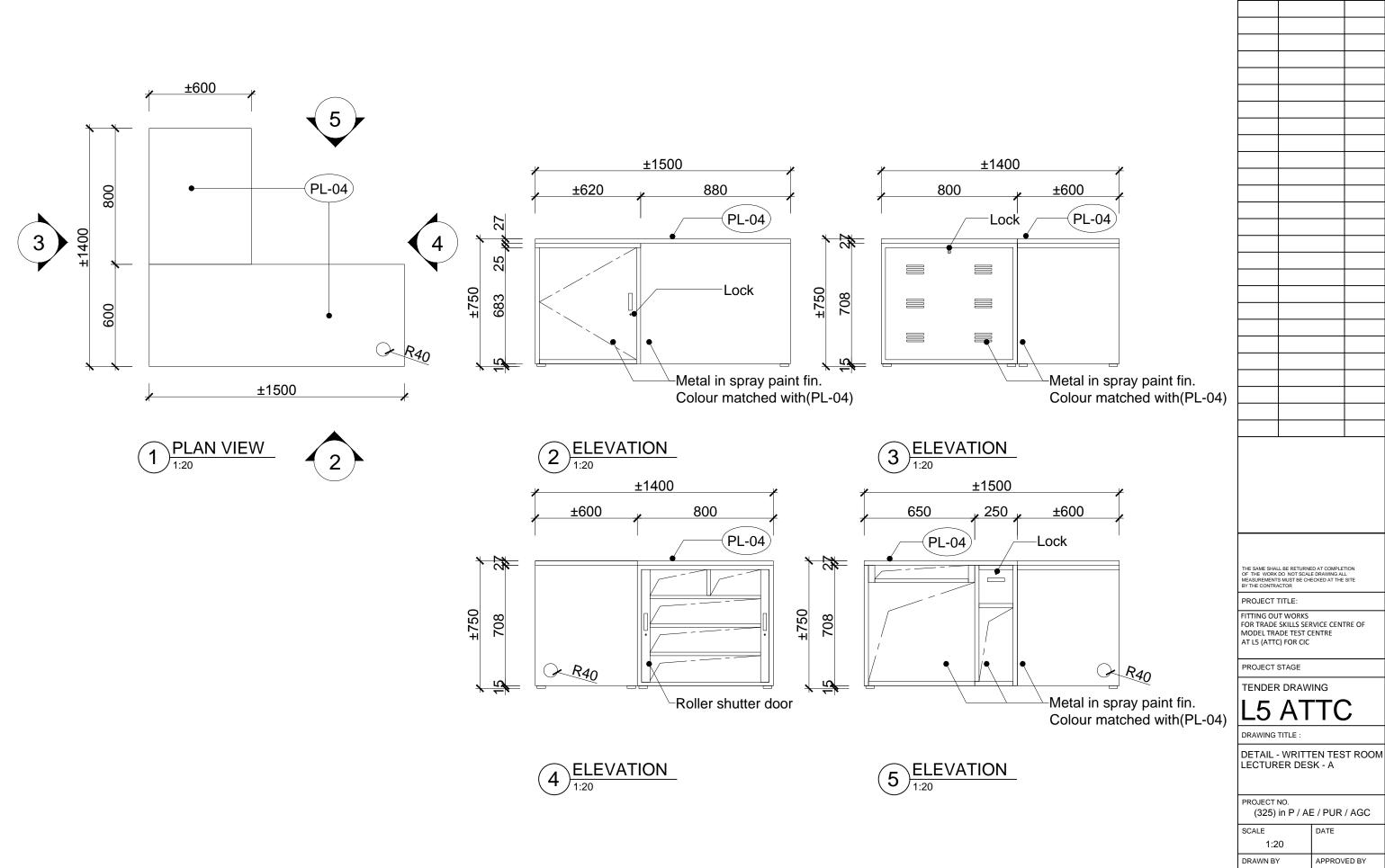
L5 ATTC

DRAWING TITLE :

DETAIL - WRITTEN TEST ROOM PHONE LOCKER

(325) in P / AE / PUR / AGC

SCALE	DATE
1:5	
DRAWN BY	APPROVED BY
DWG NO.	REV.
05-D-06	/



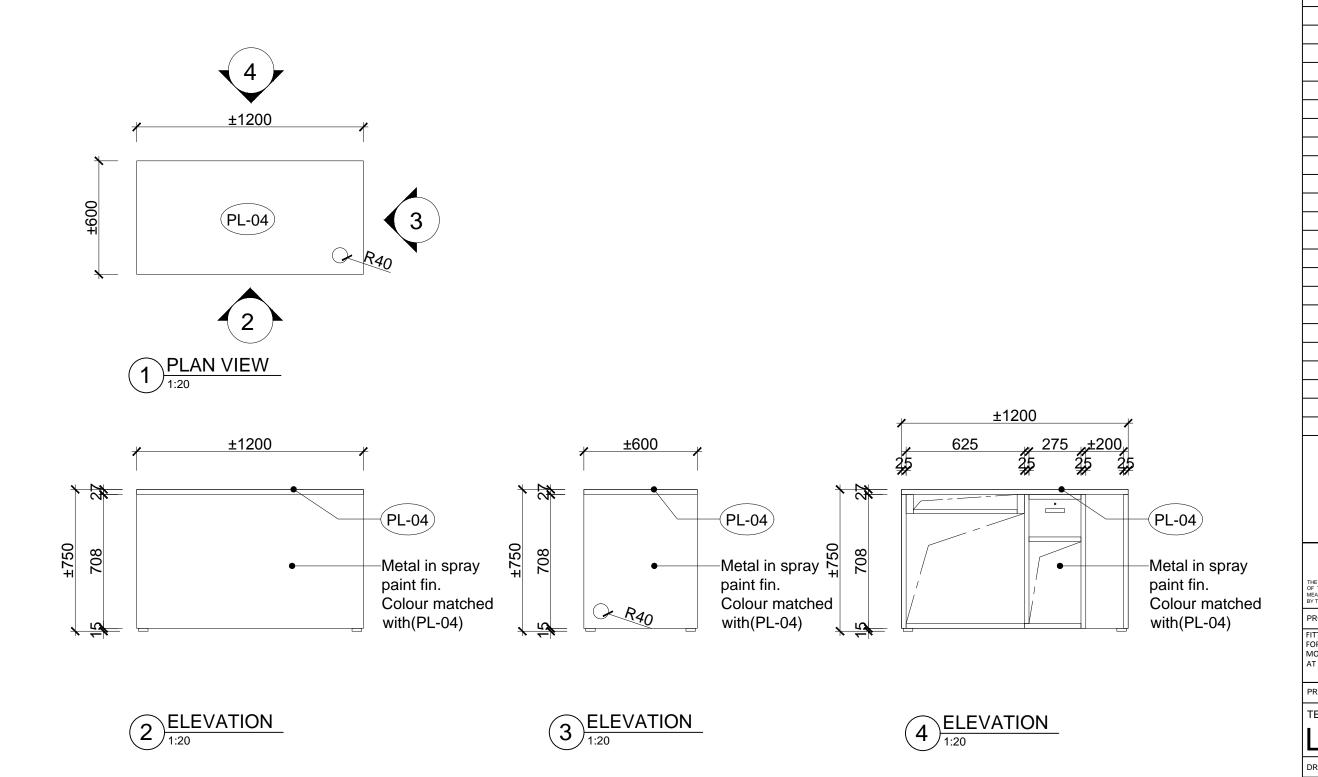
Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.

PRELIMINARY DRAWING

REVISION AND SUBMISSIONS DATES:

REMARKS:

DATE APPROVED BY DWG NO. REV. 05-D-07



PROJECT TITLE: FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC PROJECT STAGE TENDER DRAWING DRAWING TITLE : DETAIL - WRITTEN TEST ROOM LECTURER DESK - B PROJECT NO. (325) in P / AE / PUR / AGC SCALE DATE 1:20

DRAWN BY

DWG NO.

05-D-08

APPROVED BY

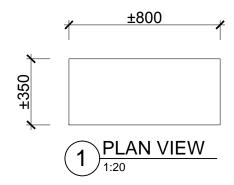
REV.

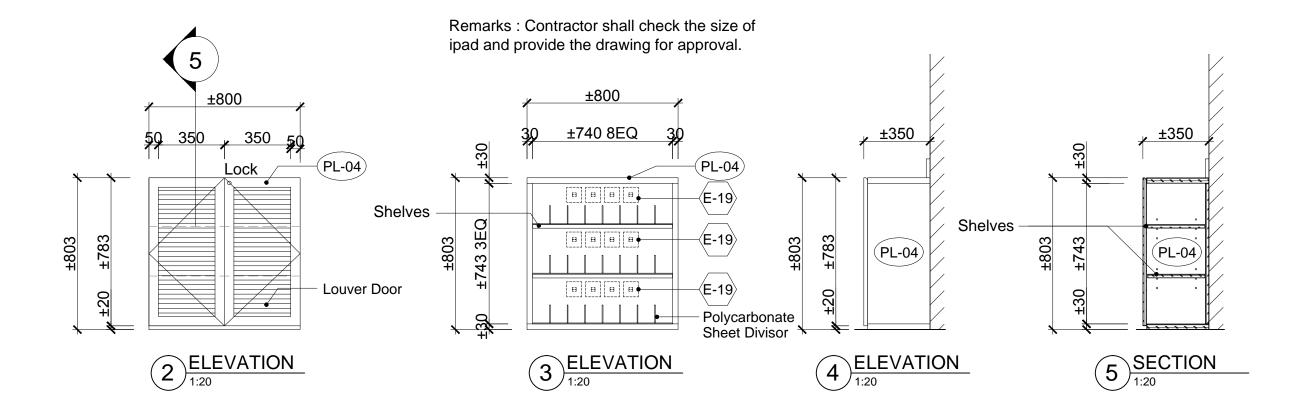
REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:





REVISION AND SUBMISSIONS

NO: DATES: REMARKS:

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

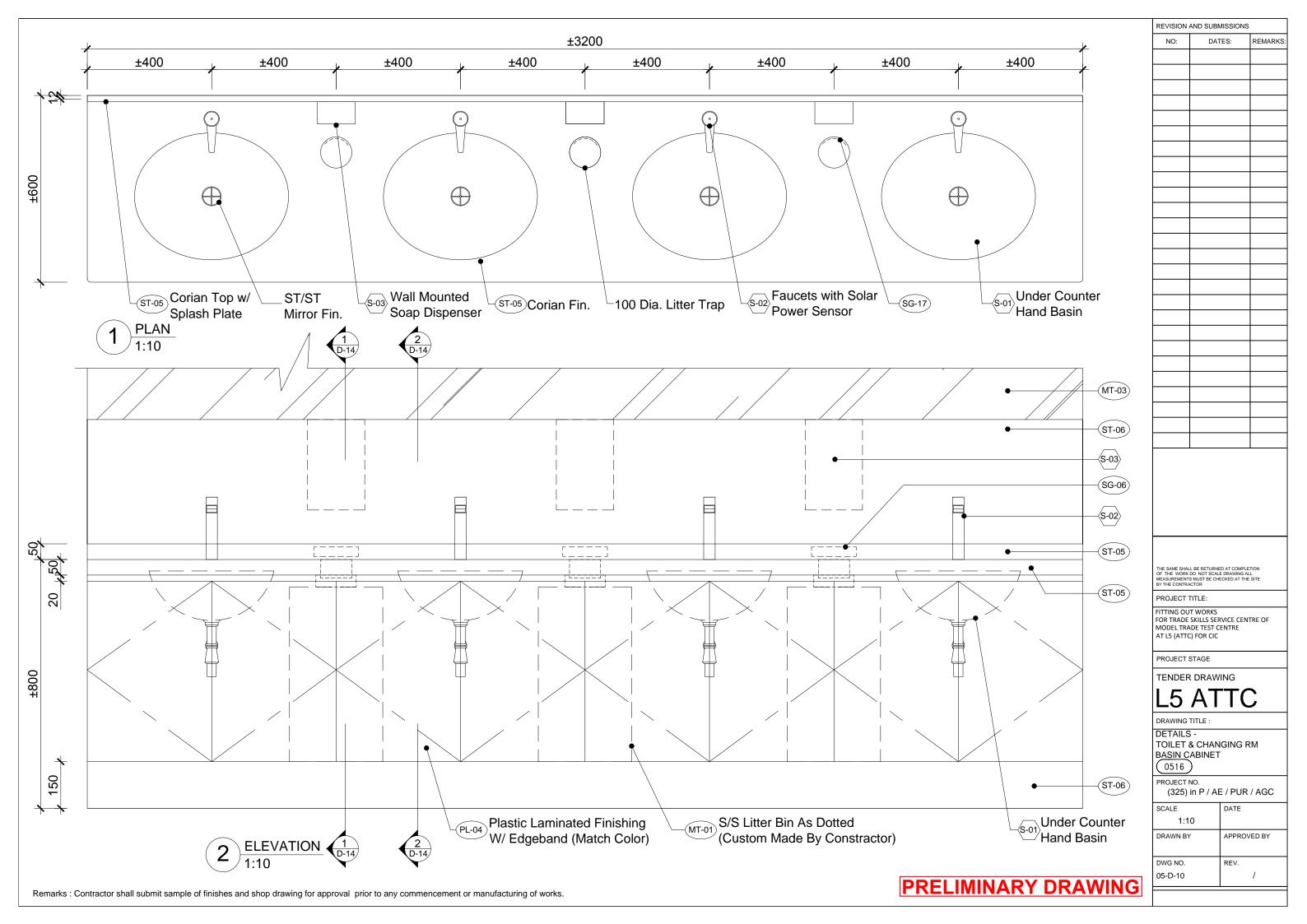
DRAWING TITLE

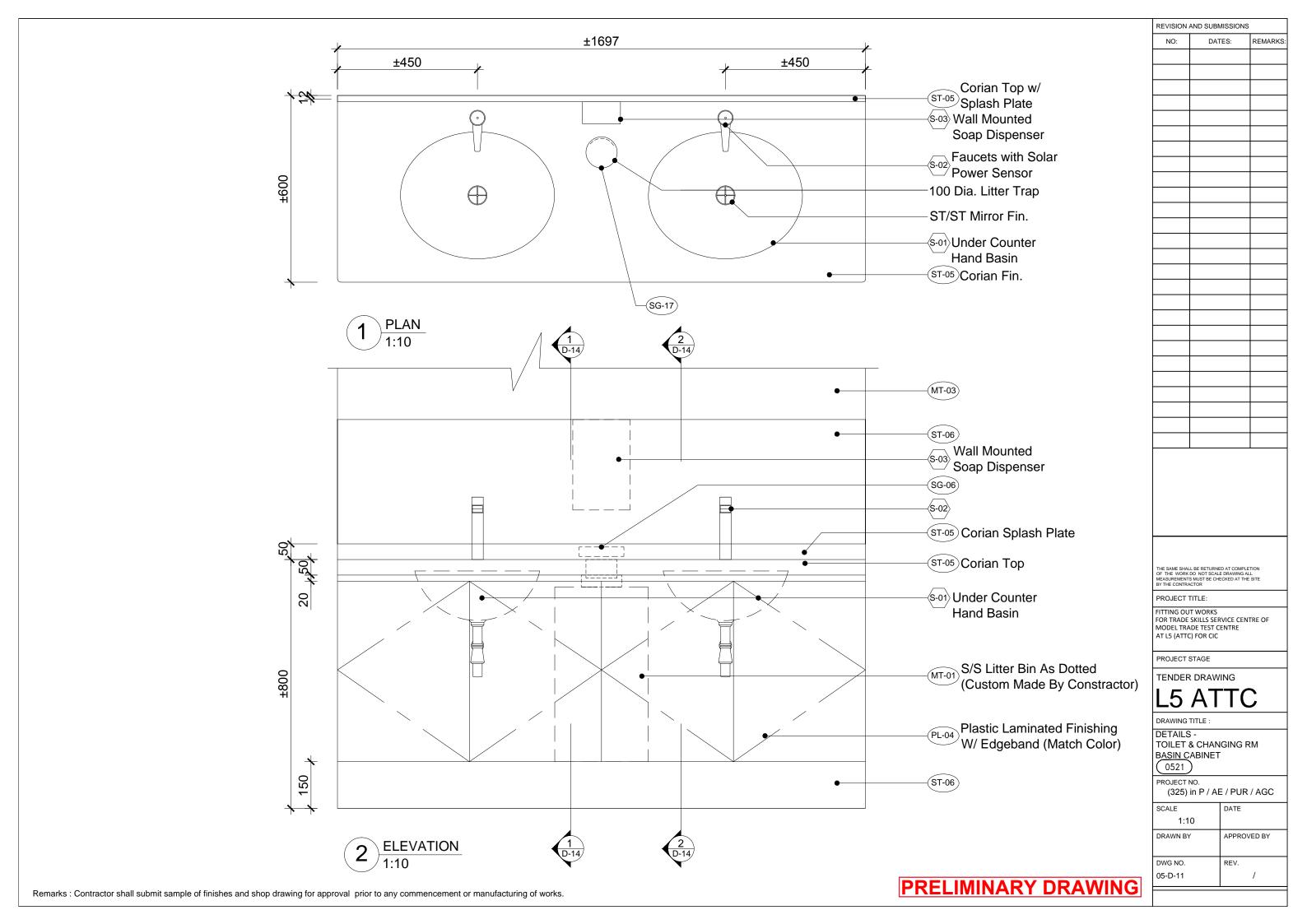
DETAIL - WRITTEN TEST ROOM IPAD STORAGE

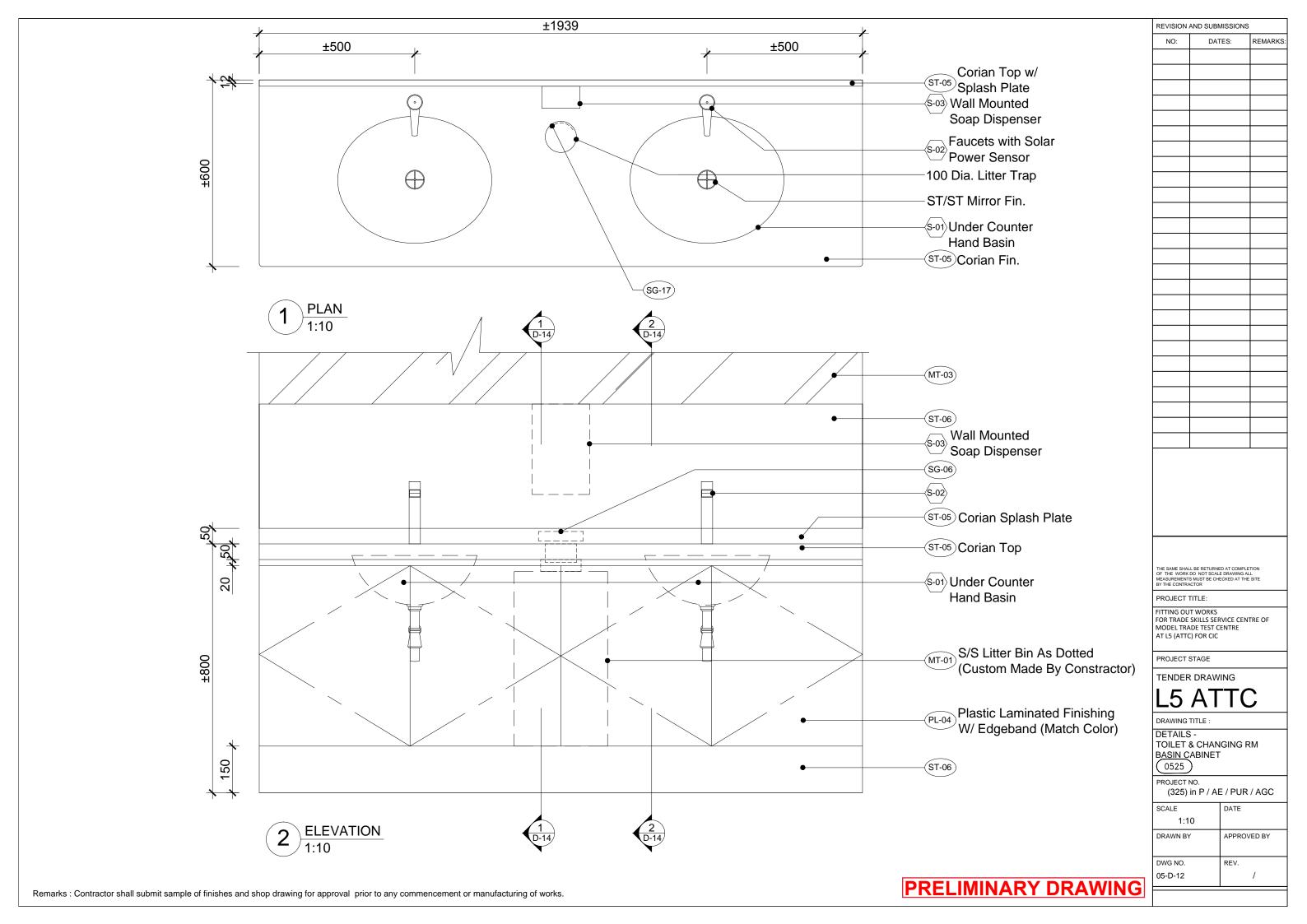
PROJECT NO.

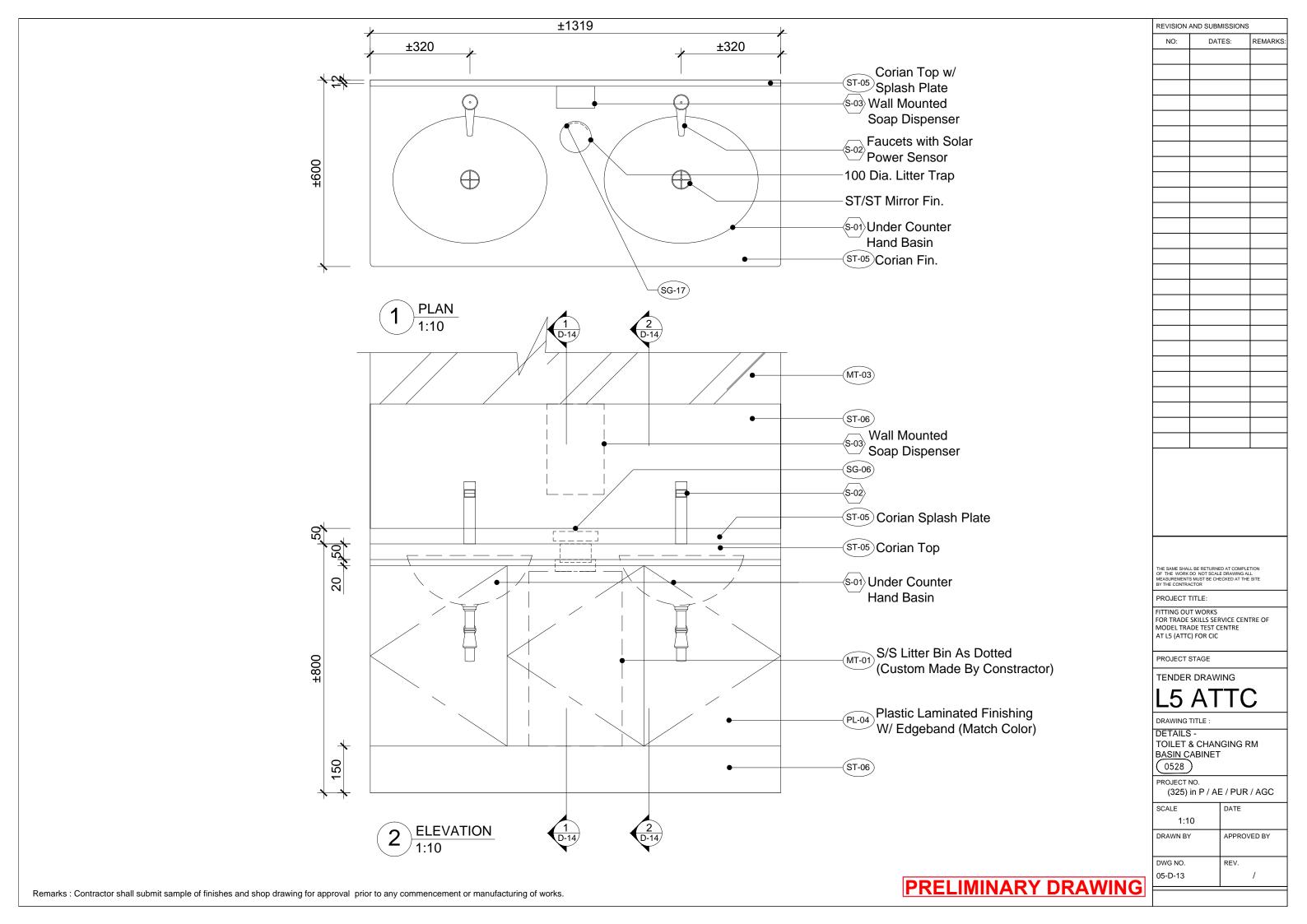
(325) in P / AE / PUR / AGC

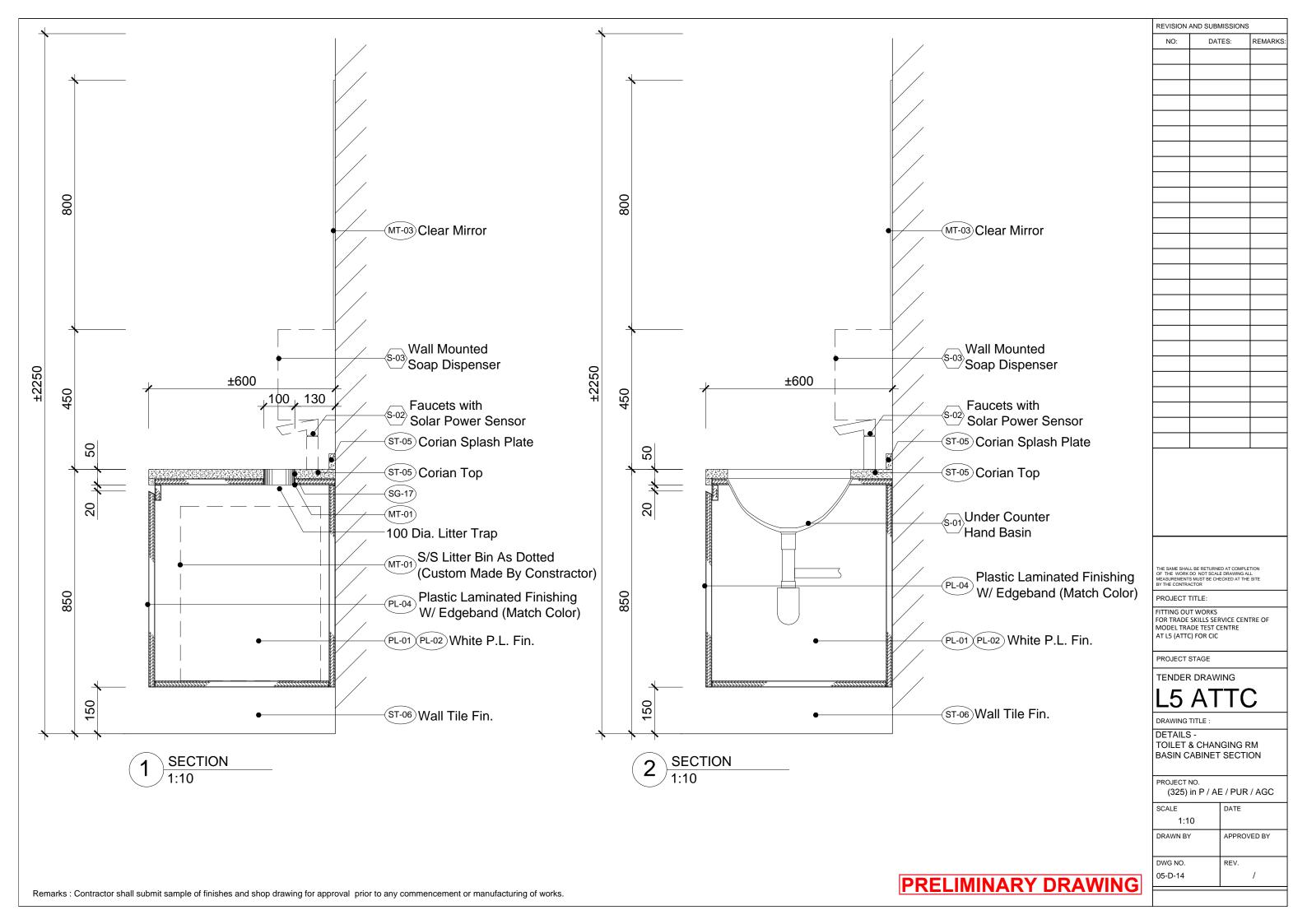
	SCALE	DATE
	1:20	
	DRAWN BY	APPROVED BY
	DWG NO.	REV.
ı	05-D-09	/

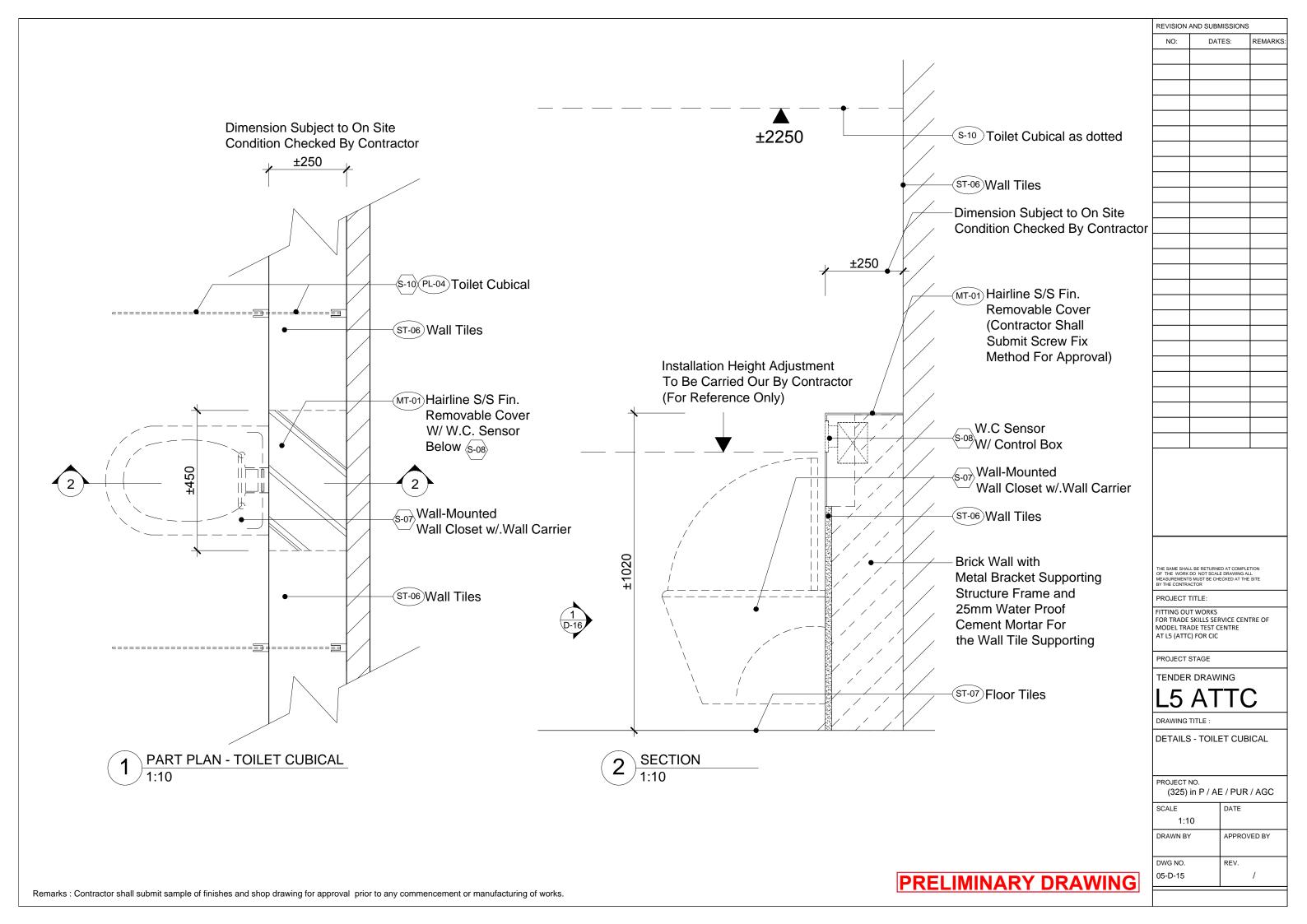


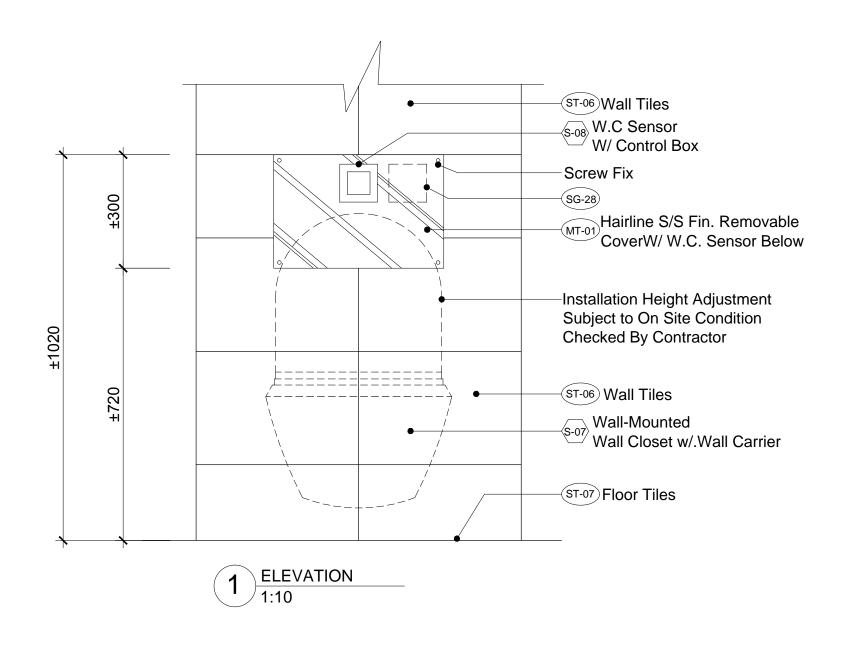












THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE :

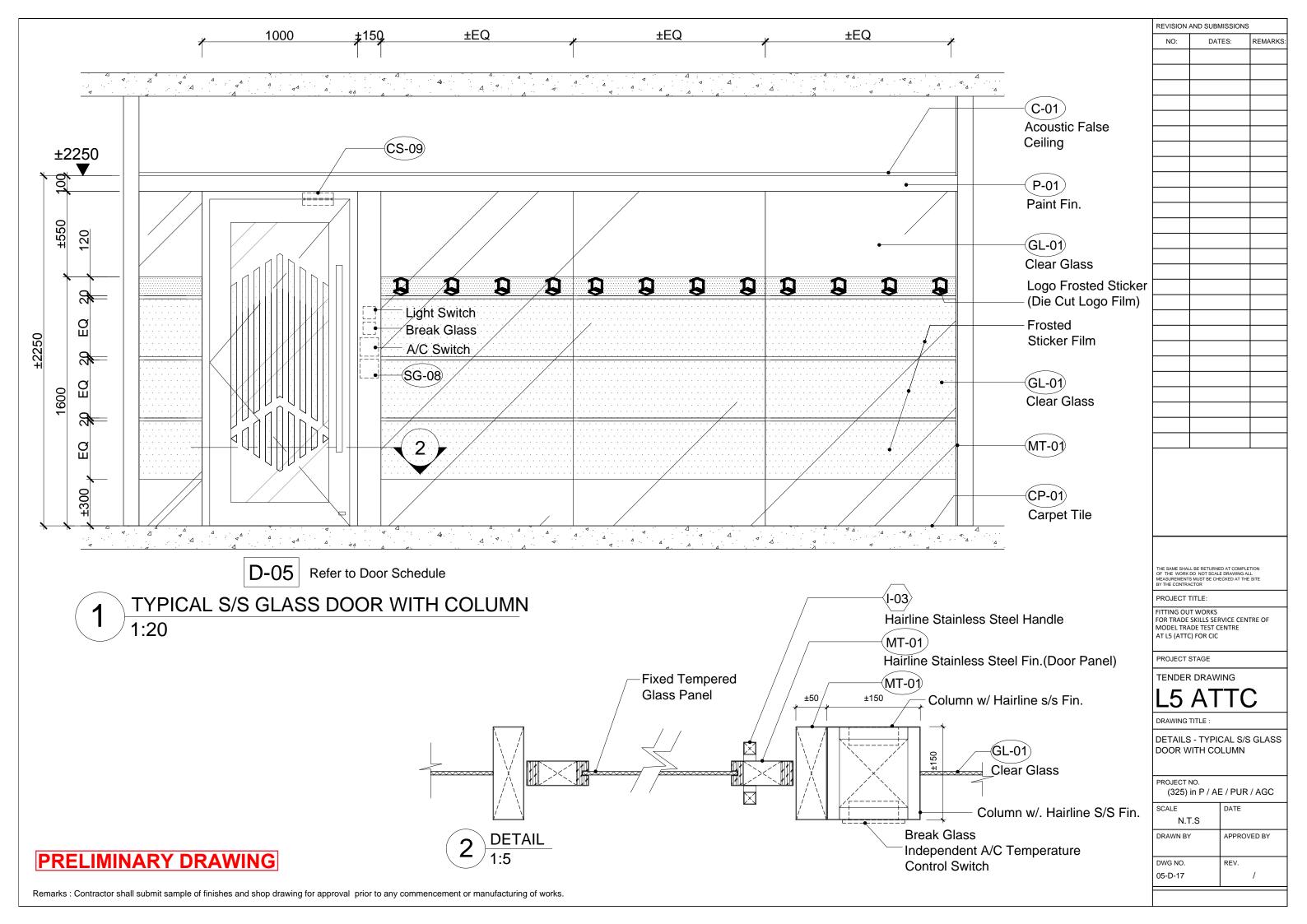
DETAILS - TOILET CUBICAL

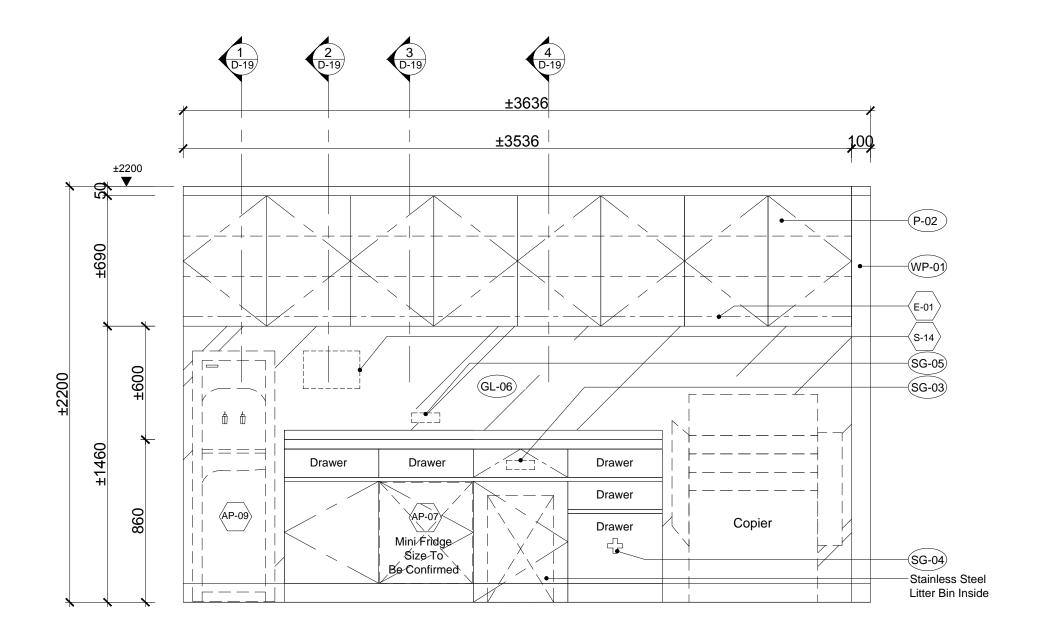
PROJECT NO. (325) in P / AE / PUR / AGC

SCALE DATE
1:10

DRAWN BY APPROVED BY

DWG NO. REV.
05-D-16 /





OFFICE PANTRY CABINET 1:20

Office – Supply and install pantry cabinet

- in high glossy piano painted doors with slope cut for door opening
- "BLUMotion" 108 degree soft close clip hinges or equivalent
- wooden drawers with "BLUM" drawer case and full extension runner or equivalent
- Corian surface w/. 50mm straight edge & 50mm splash back or equivalent grade
- Custom made Litter Bin in stainless steel fin.

REVISION AND SUBMISSIONS			
NO:	DATES:	REMARKS	
ı			

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTO

DRAWING TITLE :

DETAIL -OFFICE PANTRY CABINET

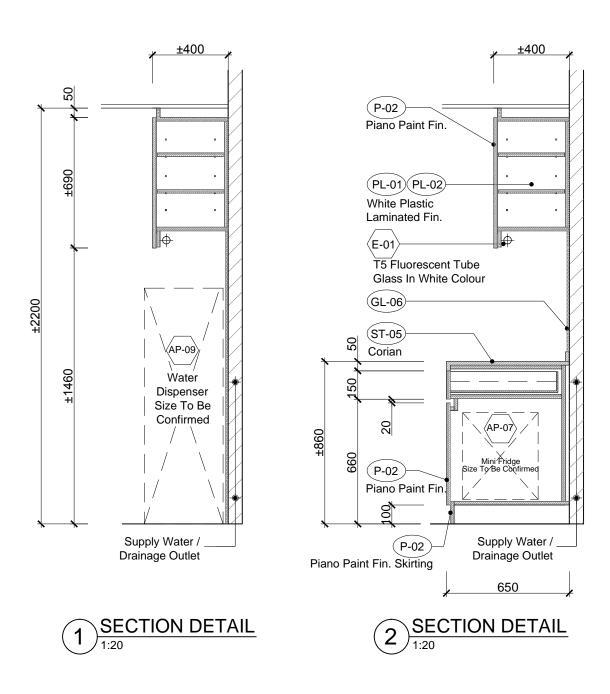
PROJECT NO. (325) in P / AE / PUR / AGC

 SCALE
 DATE

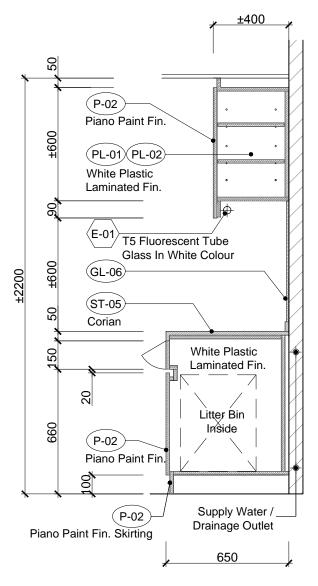
 1:20
 APPROVED BY

 DWG NO.
 REV.

 05-D-18
 /



⁽P-02) Piano Paint Fin. (PL-01)(PL-02) White Plastic Laminated Fin. (E-01) T5 Fluorescent Tube Glass In White Colour (GL-06) (ST-05) Corian White Plastic Laminated Fin. (P-02) (PL-01)(PL-02) Piano Paint Fin Supply Water / (P-02) **Drainage Outlet** Piano Paint Fin. Skirting 650



3 SECTION DETAIL
1:20

4 SECTION DETAIL

1:20

*All Doors And Drawers Are Slope Cut Edge Opening.

Office - Supply and install pantry cabinet

- in high glossy piano painted doors with slope cut for door opening
- "BLUMotion" 108 degree soft close clip hinges or equivalent
- wooden drawers with "BLUM" drawer case and full extension runner or equivalent
- Corian surface w/. 50mm straight edge & 50mm splash back or equivalent grade
- Custom made Litter Bin in stainless steel fin.

PRELIMINARY DRAWING

PROJECT TITLE:

REVISION AND SUBMISSIONS

DATES:

REMARKS:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE

DETAIL -OFFICE PANTRY CABINET SECTION

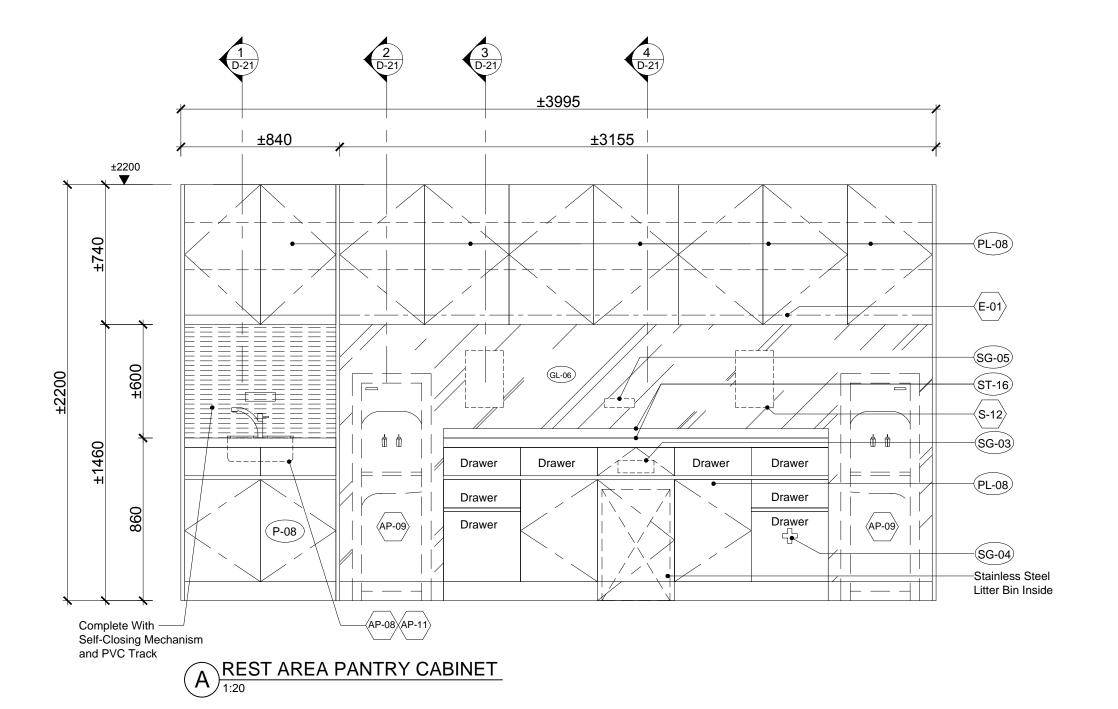
(325) in P / AE / PUR / AGC

DRAWN BY APPROVED BY

DWG NO. REV.

05-D-19 /

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.



Rest Area – Supply and install pantry cabinet

- doors with slope cut for door opening
- "BLUMotion" 108 degree soft close clip hinges or equivalent
- wooden drawers with "BLUM" drawer case and full extension runner or equivalent
- Corian surface w/. 50mm straight edge & 50mm splash back and Corian 804A/S bowl sink or equivalent grade (refer to Schedule 05-APS-01/AP-11)
- FIMA CARLO FRATTINI 3537/2 Water Tap, in Chrome fin. or equivalent (refer to Schedule 05-APS-01/AP-08)
- Custom made Litter Bin in stainless steel fin.

NO:	DA	ES:	REMAR
THE SAME SHAL OF THE WORK MEASUREMENT	L BE RETURNE DO NOT SCAL	ED AT COMPLE E DRAWING AL	TION L
BY THE CONTRA	ACTOR	EUKED AT THE	91F
PROJECT			
FOR TRADE	SKILLS SEF		TRE OF
MODEL TRA AT L5 (ATTO		ENIKE	
PROJECT :	STAGE		
TENDER		ING	
I F	Λ Τ		•
L5	Αl	1	ر
DRAWING	TITLE :		
DETAIL			
REST AF	REA PAI	NTRY C	ABINE
PROJECT I		= / DI ID	/ ^
	in P / Al		, AGC
SCALE		DATE	

1:20 DRAWN BY

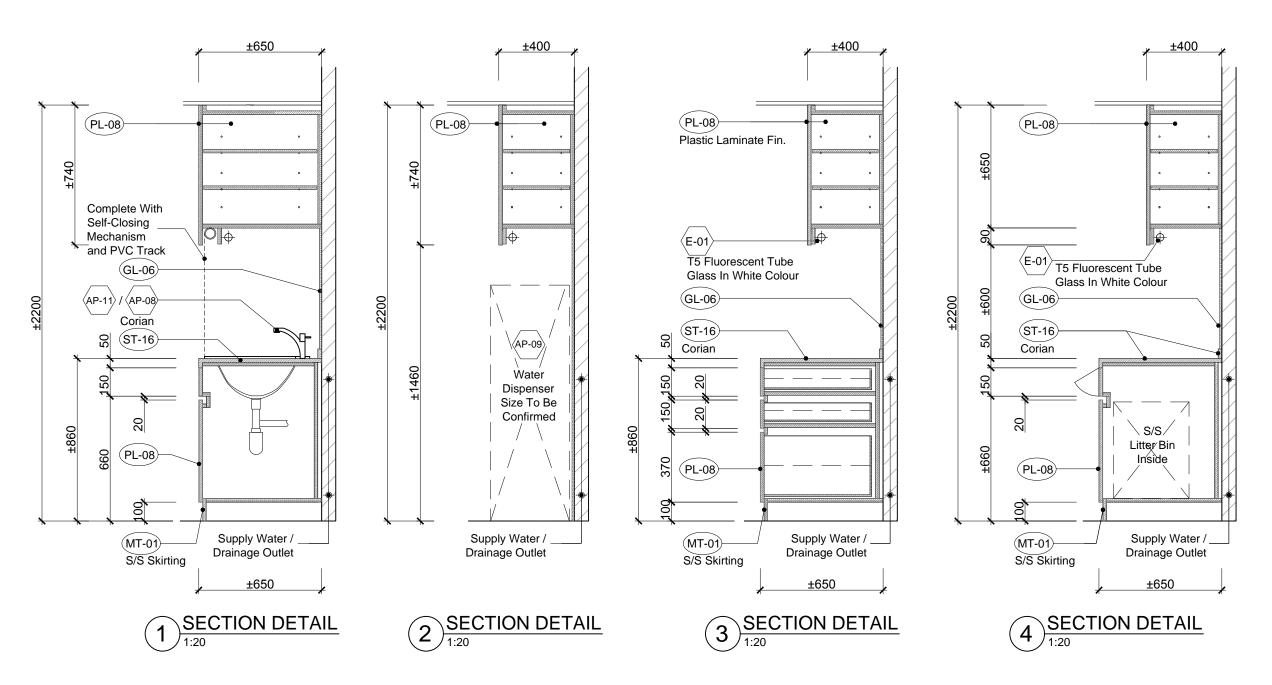
DWG NO.

05-D-20

APPROVED BY

REV.

REVISION AND SUBMISSIONS



*All Doors And Drawers Are Slope Cut Edge Opening.

Rest Area – Supply and install pantry cabinet

- doors with slope cut for door opening
- "BLUMotion" 108 degree soft close clip hinges or equivalent
- wooden drawers with "BLUM" drawer case and full extension runner or equivalent
- Corian surface w/. 50mm straight edge & 50mm splash back and Corian 804A/S bowl sink or equivalent grade (refer to Schedule 05-APS-01/AP-11)
- FIMA CARLO FRATTINI 3537/2 Water Tap, in Chrome fin. or equivalent (refer to Schedule 05-APS-01/AP-08)
- Custom made Litter Bin in stainless steel fin.

PRELIMINARY DRAWING

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

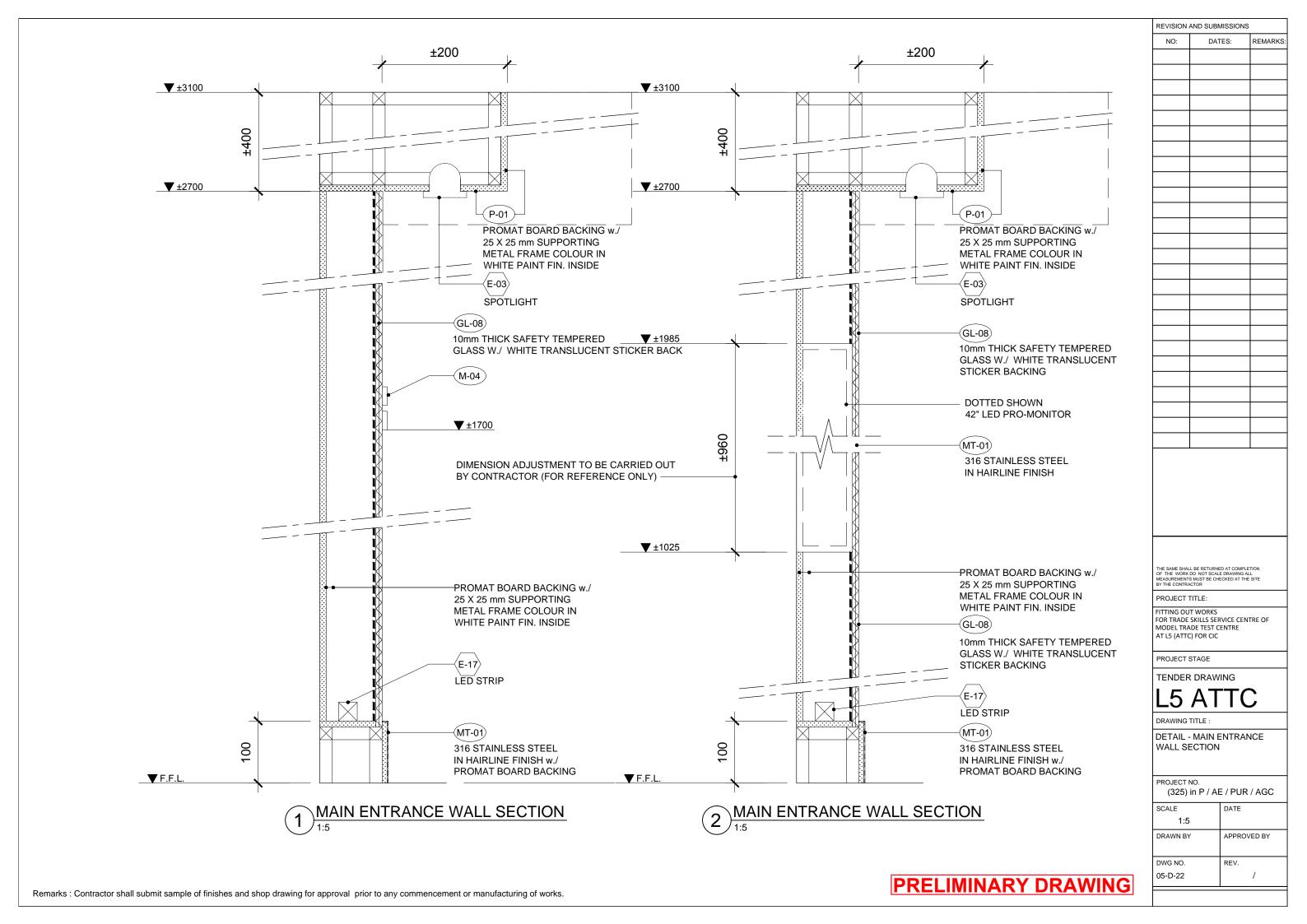
DRAWING TITLE :

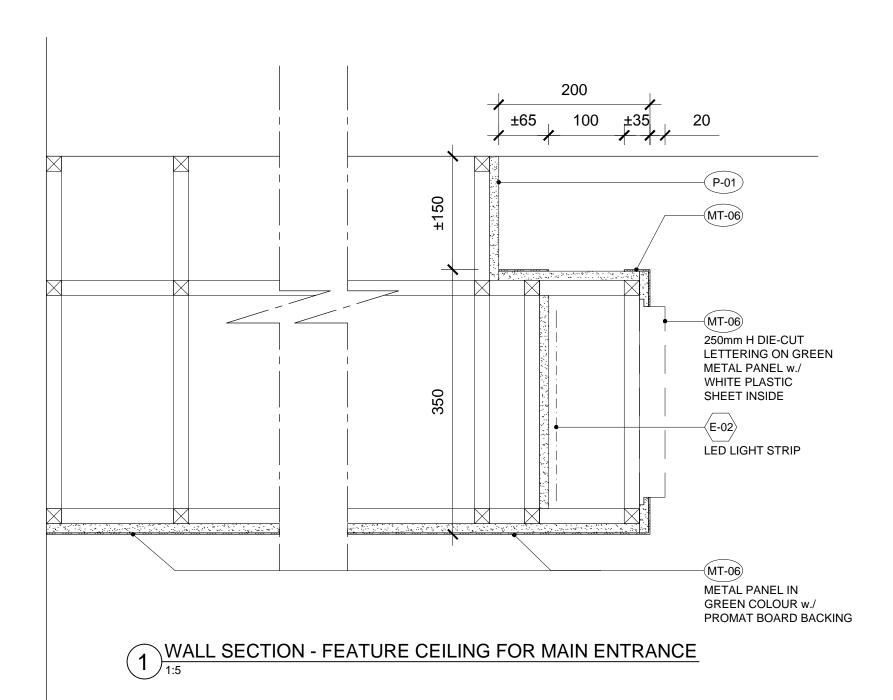
DETAIL
REST AREA PANTRY CABINET
SECTION

PROJECT NO. (325) in P / AE / PUR / AGC

DRAWN BY APPROVED BY

DWG NO. REV. /





250

FONT: TRADE GOTHIC LT STD 20mm CLEAR POLYCARBONATE LETTERING ON DIE CUT GREEN METAL PANEL w./ WHITE POLYCARBONATE SHEET

2 LETTERING FOR ENTRANCE

REVISION AND SUBMISSIONS

DATES:

REMARKS:

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

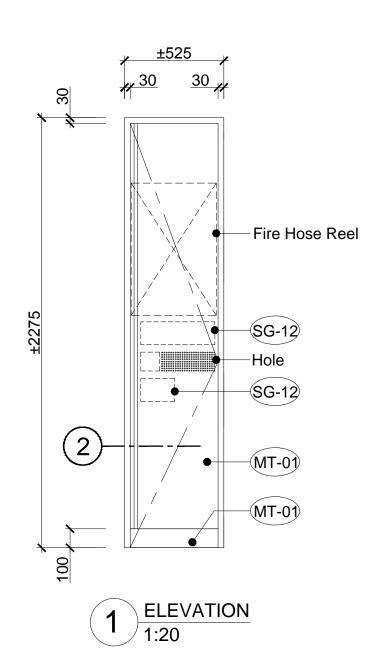
L5 ATTC

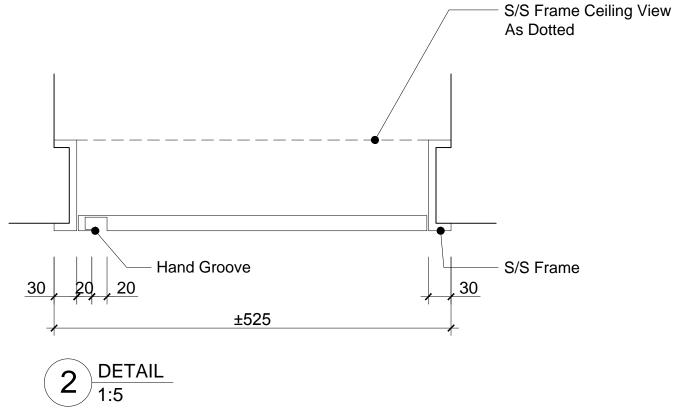
DRAWING TITLE :

DETAIL -FEATURE CEILING FOR MAIN ENTRANCE

PROJECT NO. (325) in P / AE / PUR / AGC

SCALE DATE 1:5 DRAWN BY APPROVED BY REV. 05-D-23





PROJECT STAGE TENDER DRAWING

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

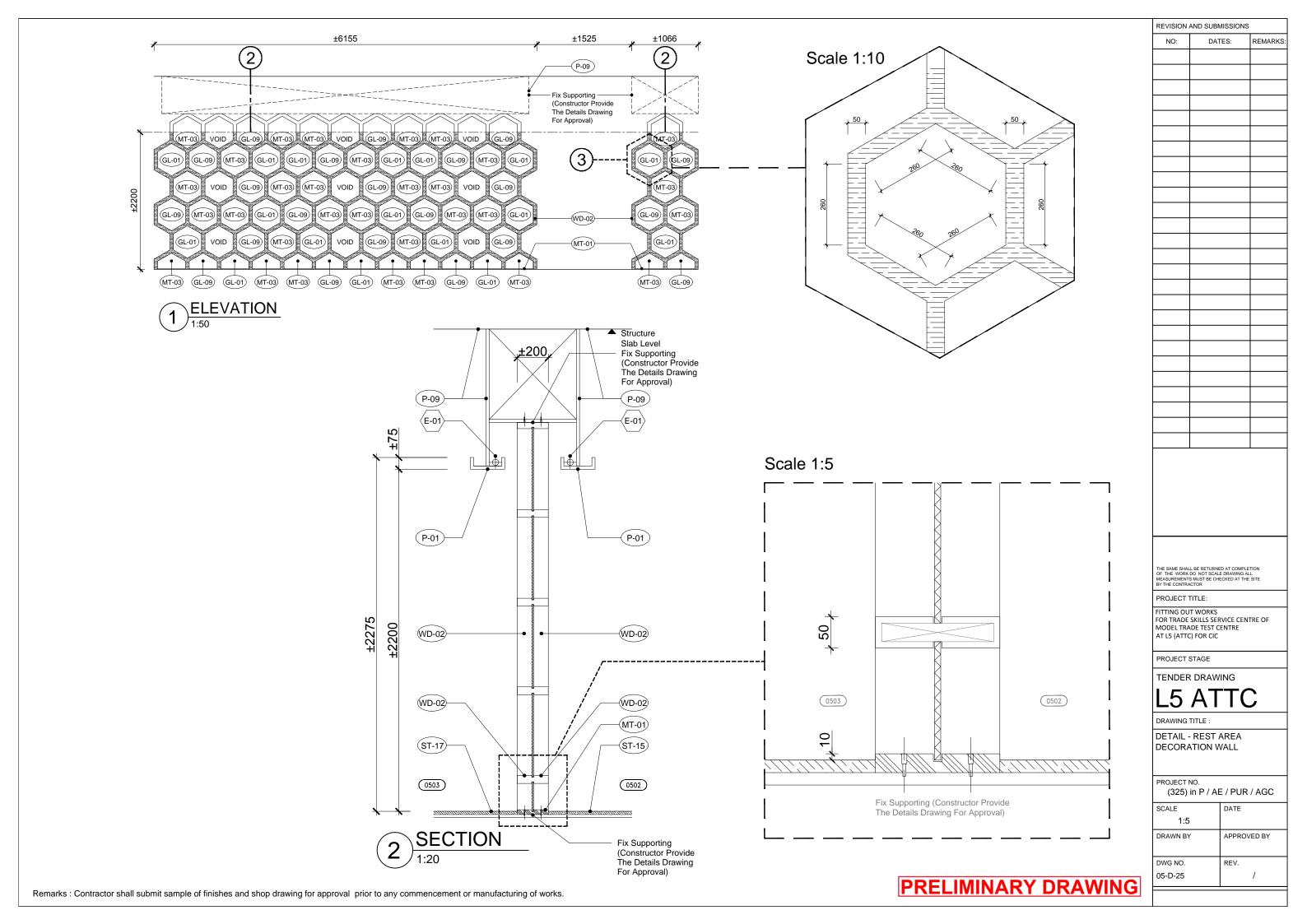
DRAWING TITLE :

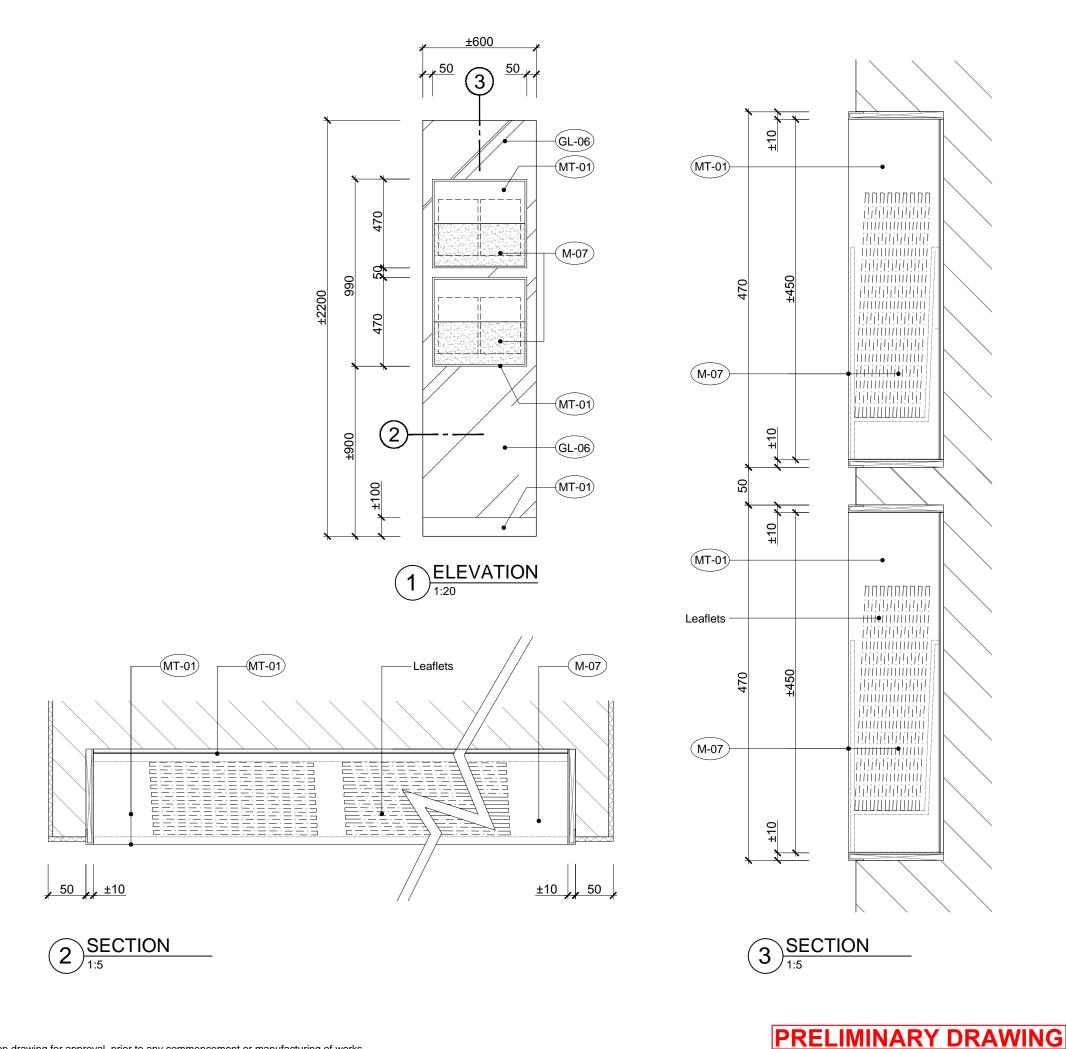
DETAIL -

FIRE HOSE REEL DOOR

(325) in P / AE / PUR / AGC

SCALE	DATE
1:5	
DRAWN BY	APPROVED BY
DWG NO.	REV.
05-D-24	/





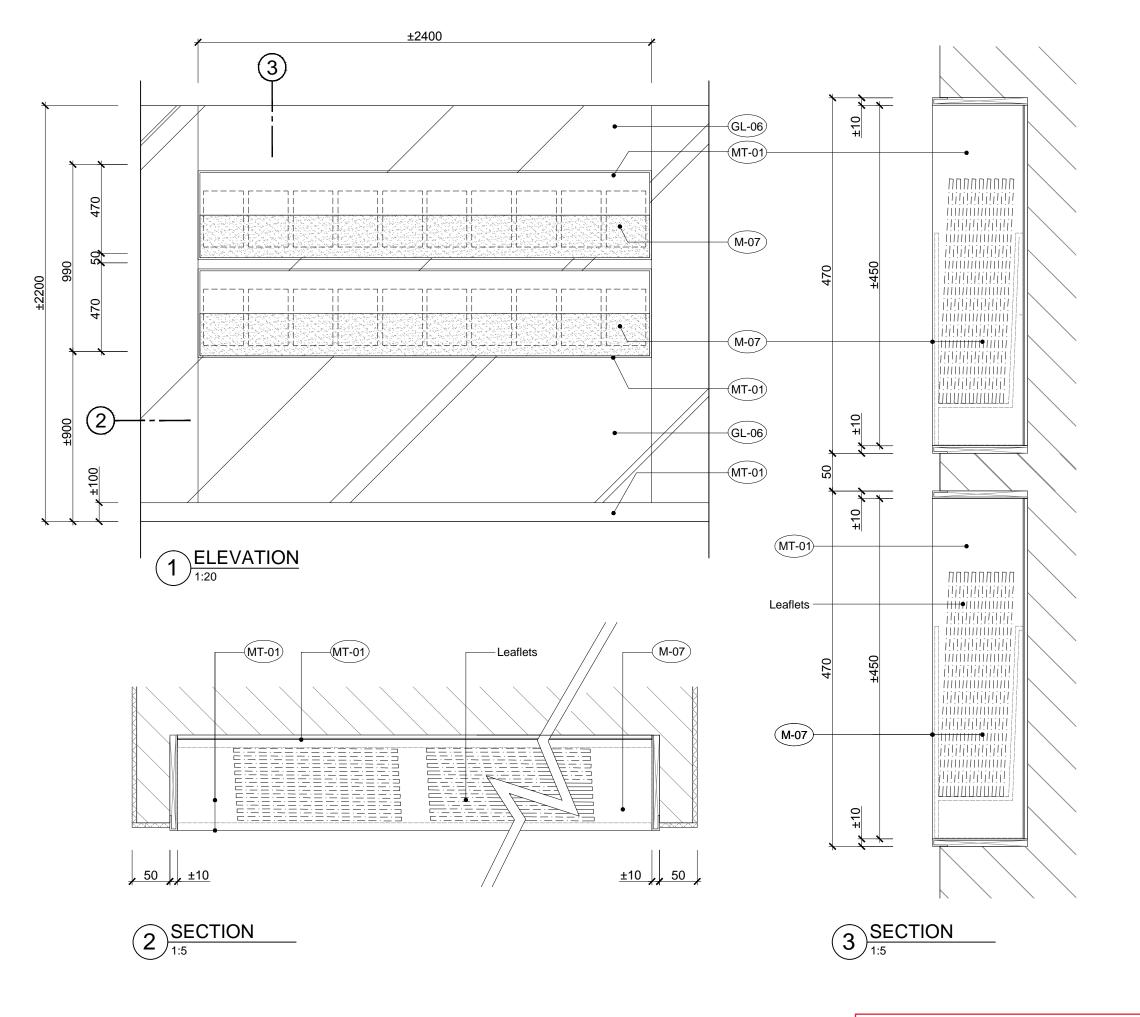
PROJECT TITLE: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC PROJECT STAGE TENDER DRAWING L5 ATTC DETAIL - RECEPTION LEAFLET RACK (COLUMN) PROJECT NO. (325) in P / AE / PUR / AGC SCALE DATE 1:5 DRAWN BY APPROVED BY DWG NO. REV. 05-D-26

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:



REVISION AND SUBMISSIONS DATES: REMARKS: PROJECT TITLE: FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITLE :

DETAIL - RECEPTION LEAFLET RACK

PROJECT NO. (325) in P / AE / PUR / AGC

05-D-27

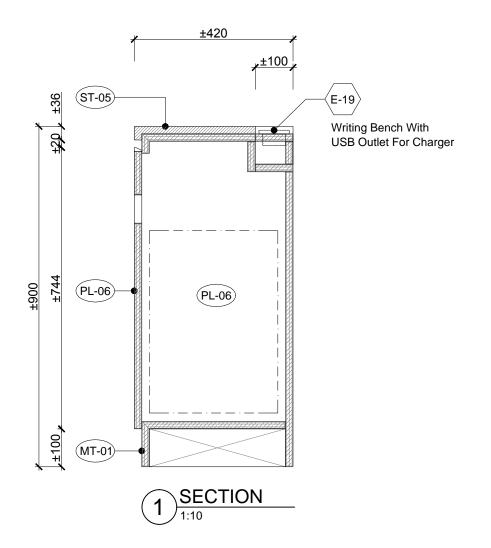
SCALE
1:5

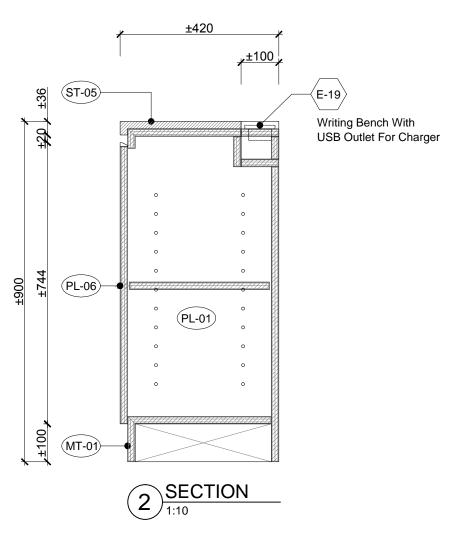
DRAWN BY

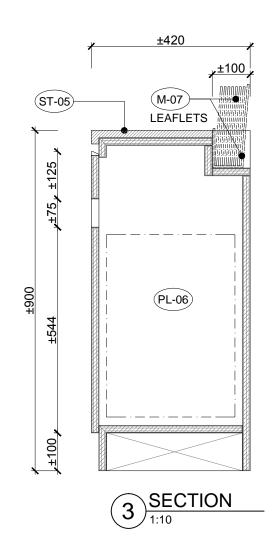
APPROVED BY

DWG NO.

REV.







REVISION AND SUBMISSIONS

DATES:

REMARKS:

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

DRAWING TITL

DETAIL - RECEPTION WRITING BENCH SECTION

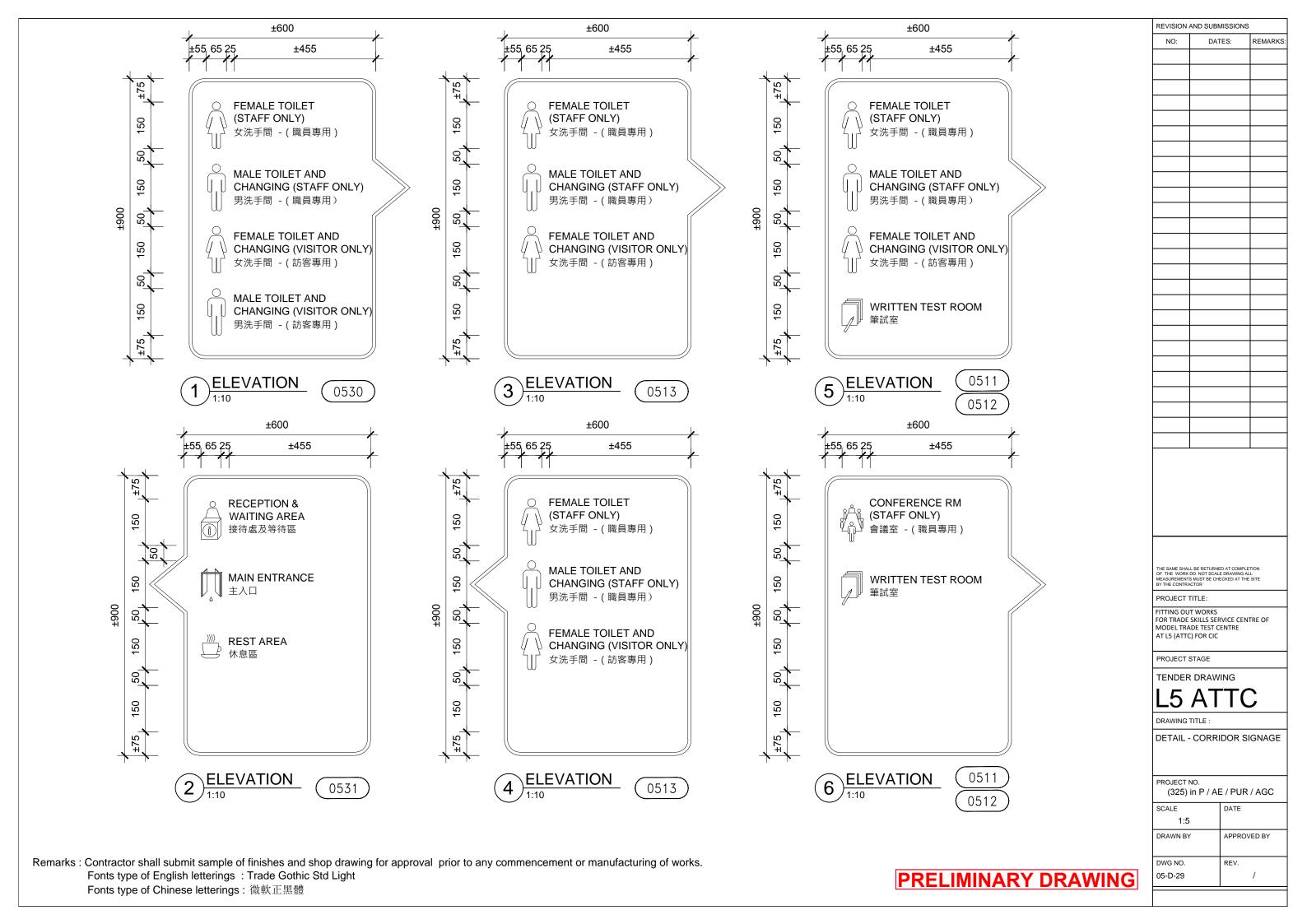
PROJECT NO.

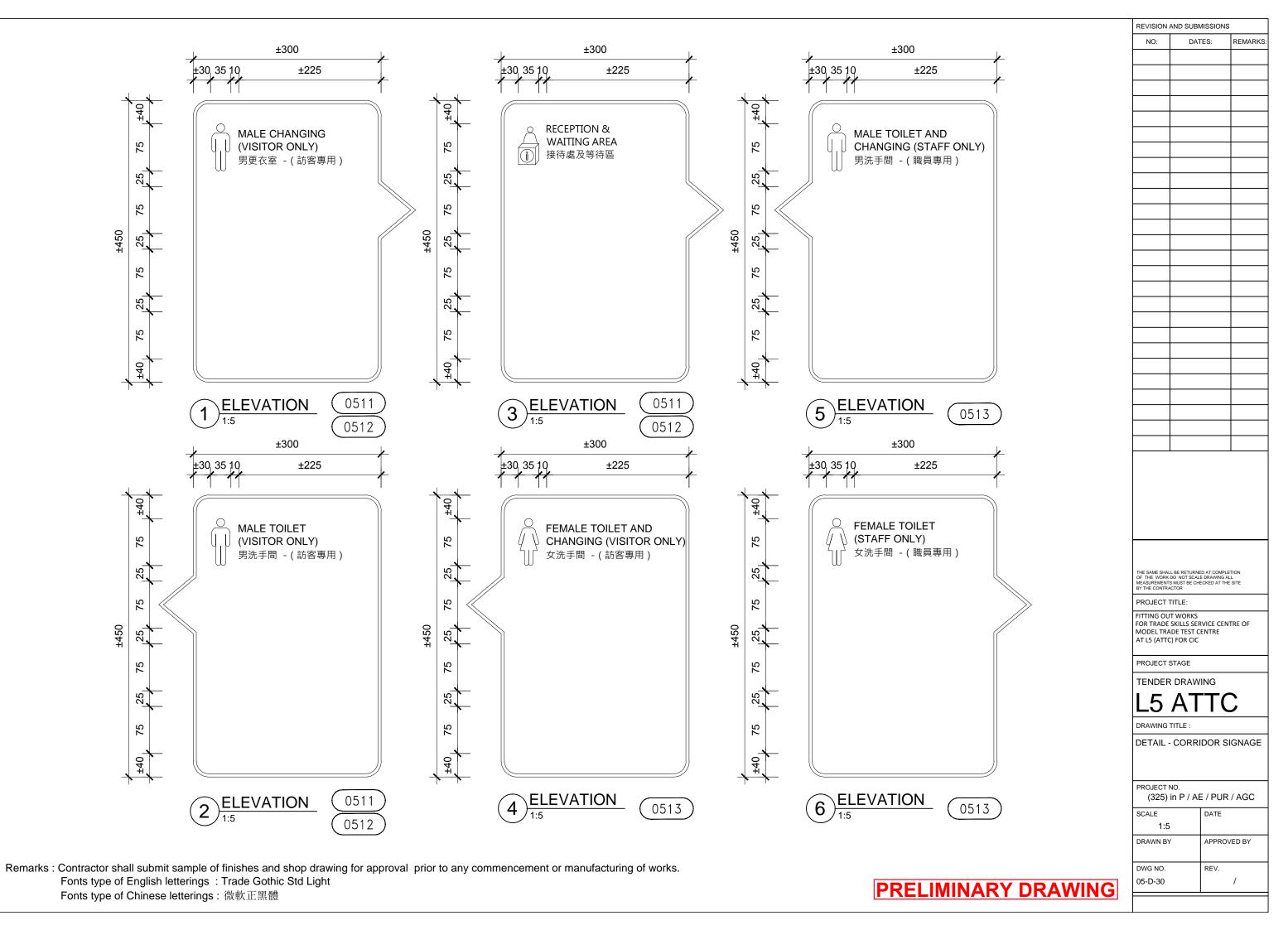
(325) in P / AE / PUR / AGC

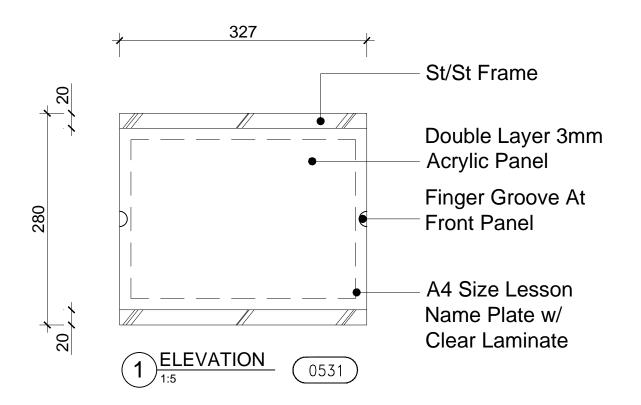
SCALE DATE

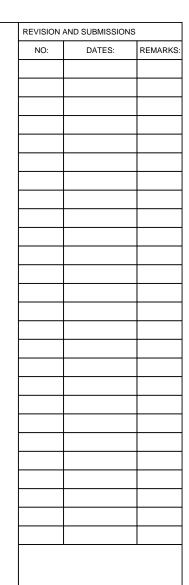
DRAWN BY APPROVED BY

DWG NO. REV. /









THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

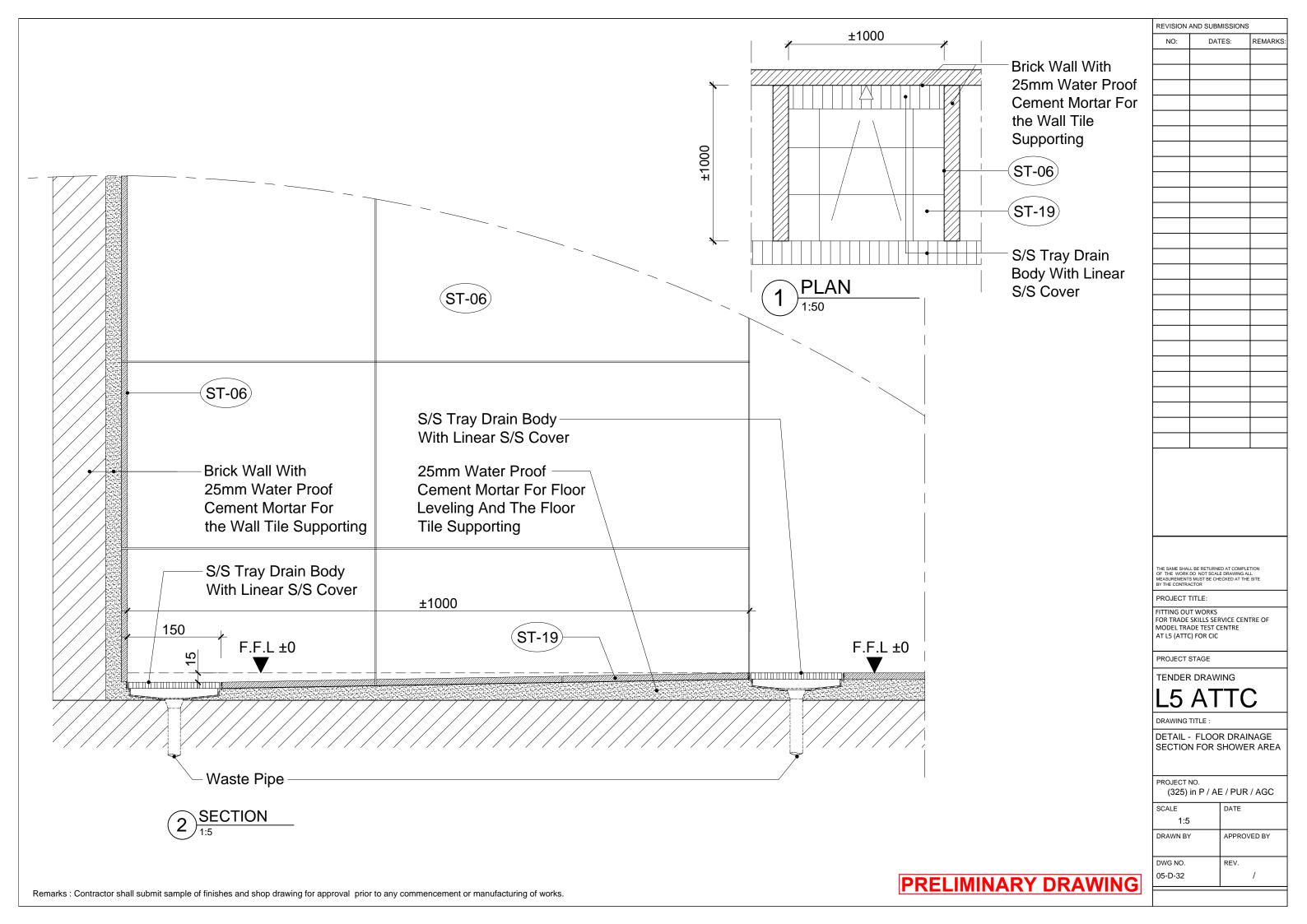
DRAWING TITLE :

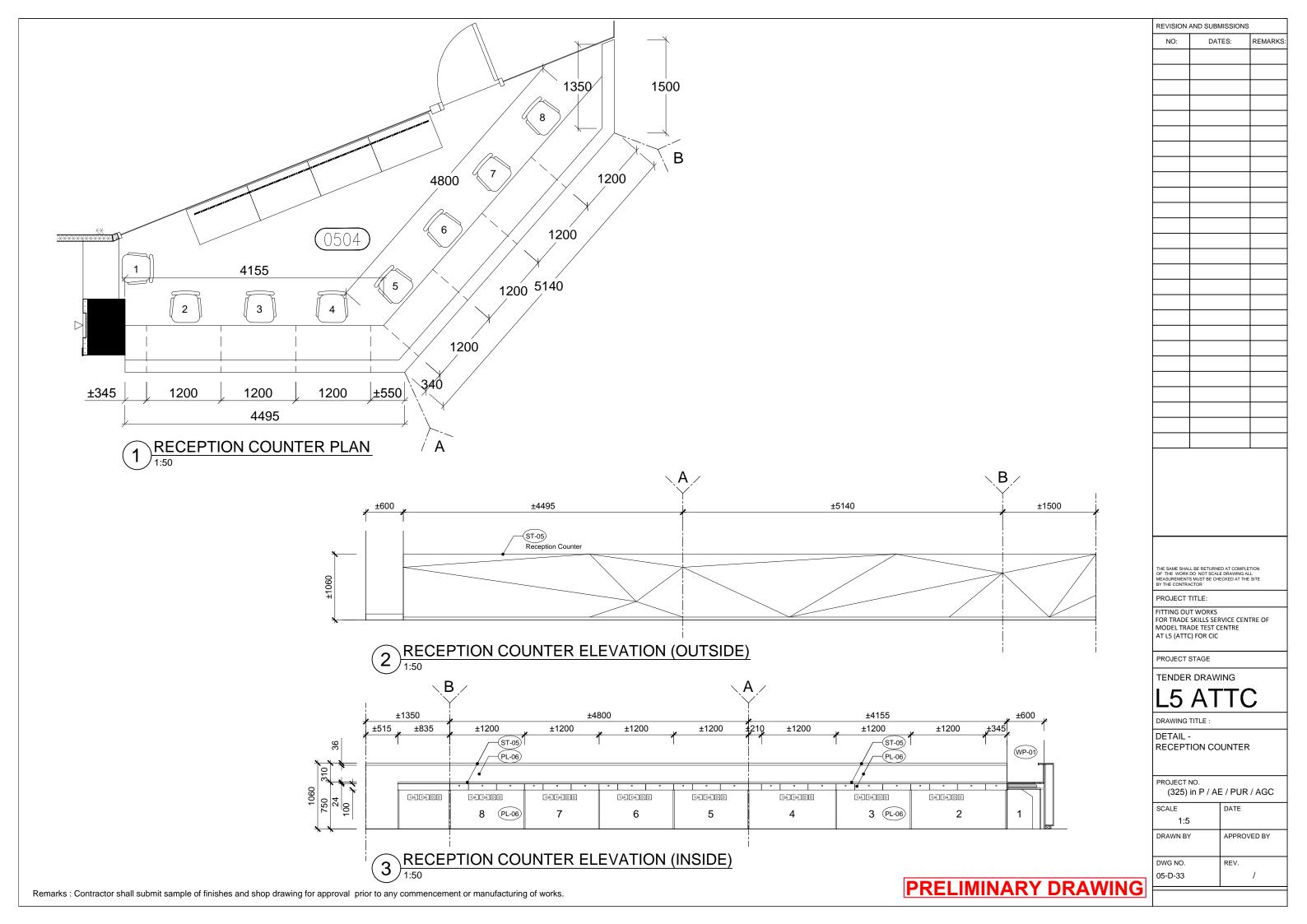
DETAIL - CORRIDOR SIGNAGE

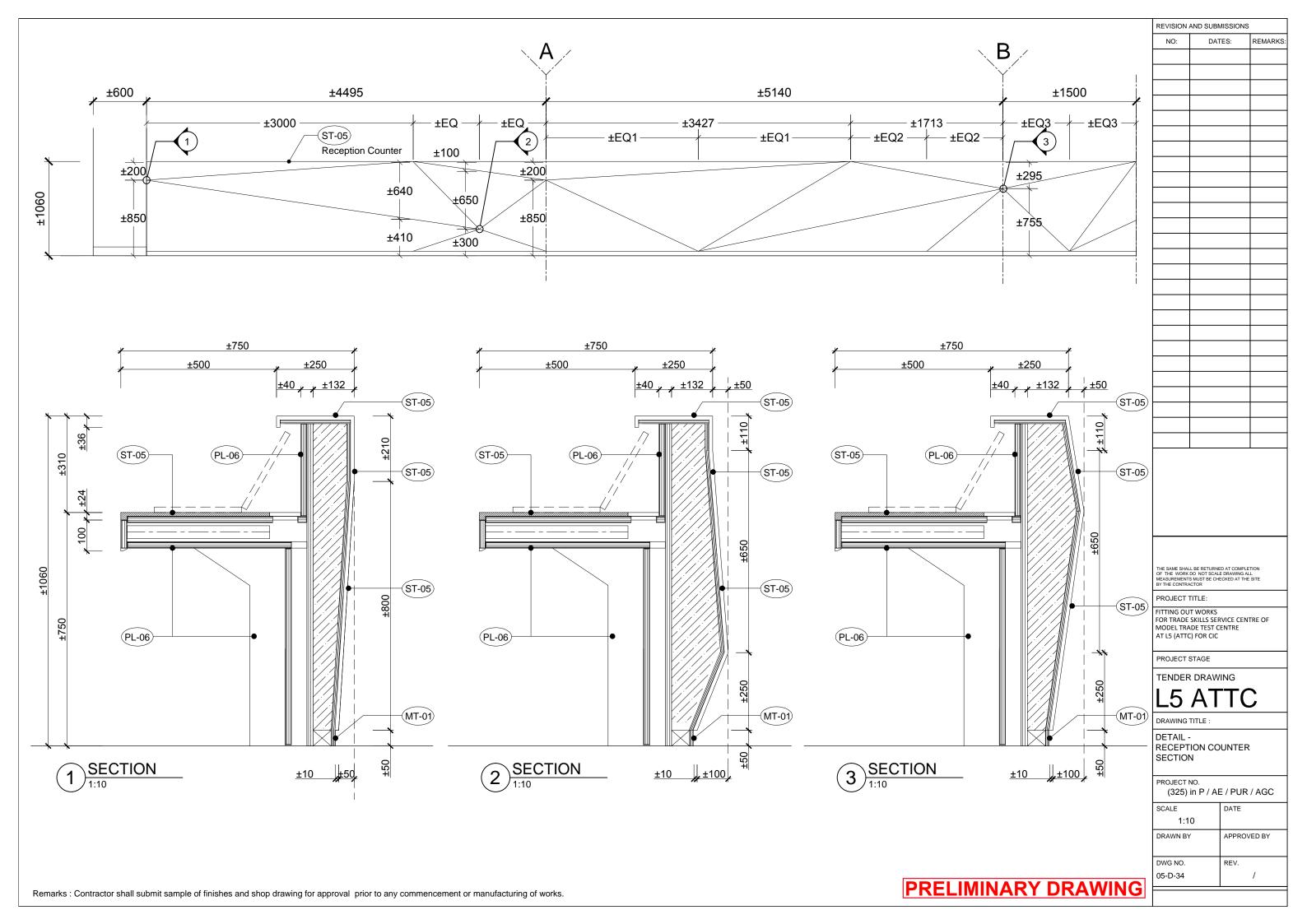
PROJECT NO.

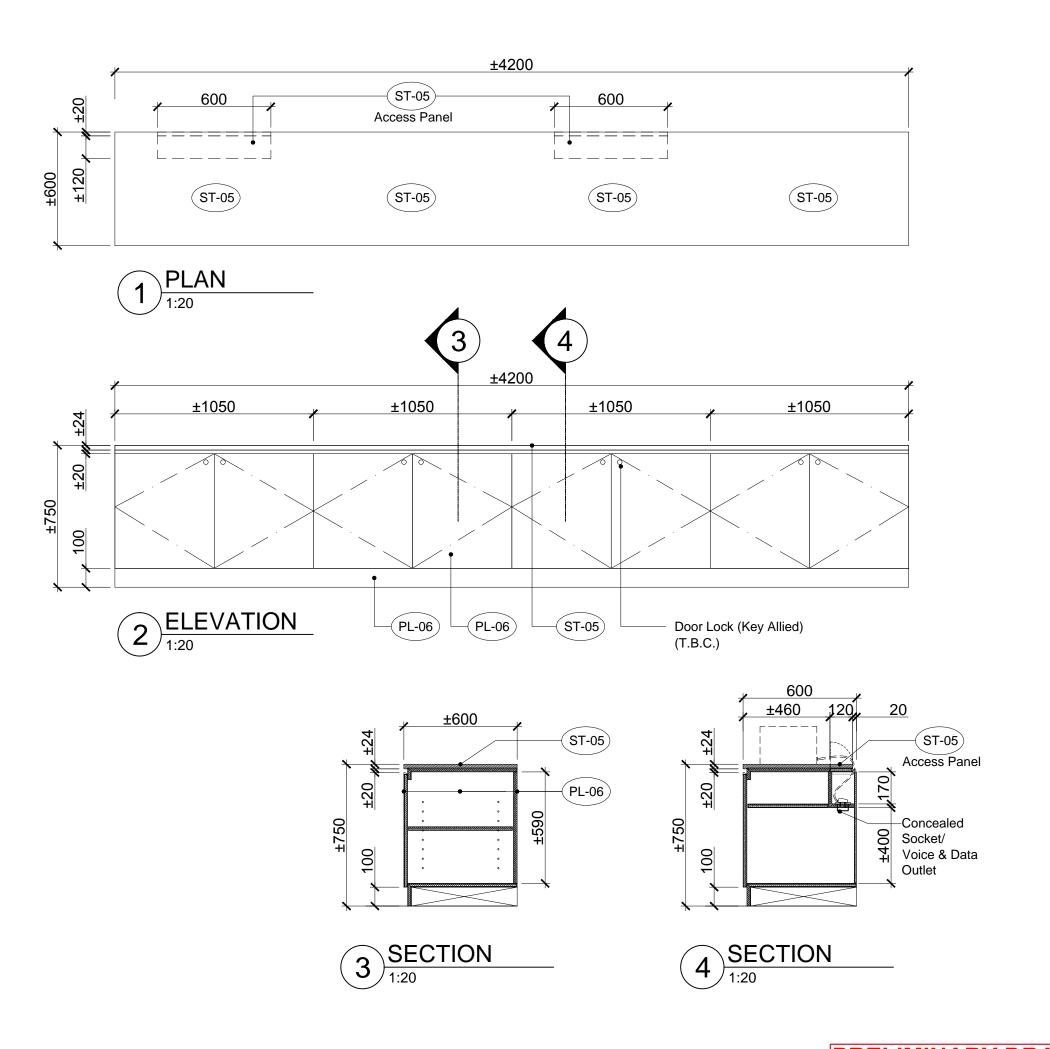
(325) in P / AE / PUR / AGC

	SCALE	DATE
	1:5	
	DRAWN BY	APPROVED BY
	DWG NO.	REV.
	05-D-31	/
ш		









REVISION AND SUBMISSIONS

NO: DATES: REMARKS:

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

|- _ _ _ _

L5 ATTC

DRAWING TITLE :

DETAIL - RECEPTION LOW CABINET

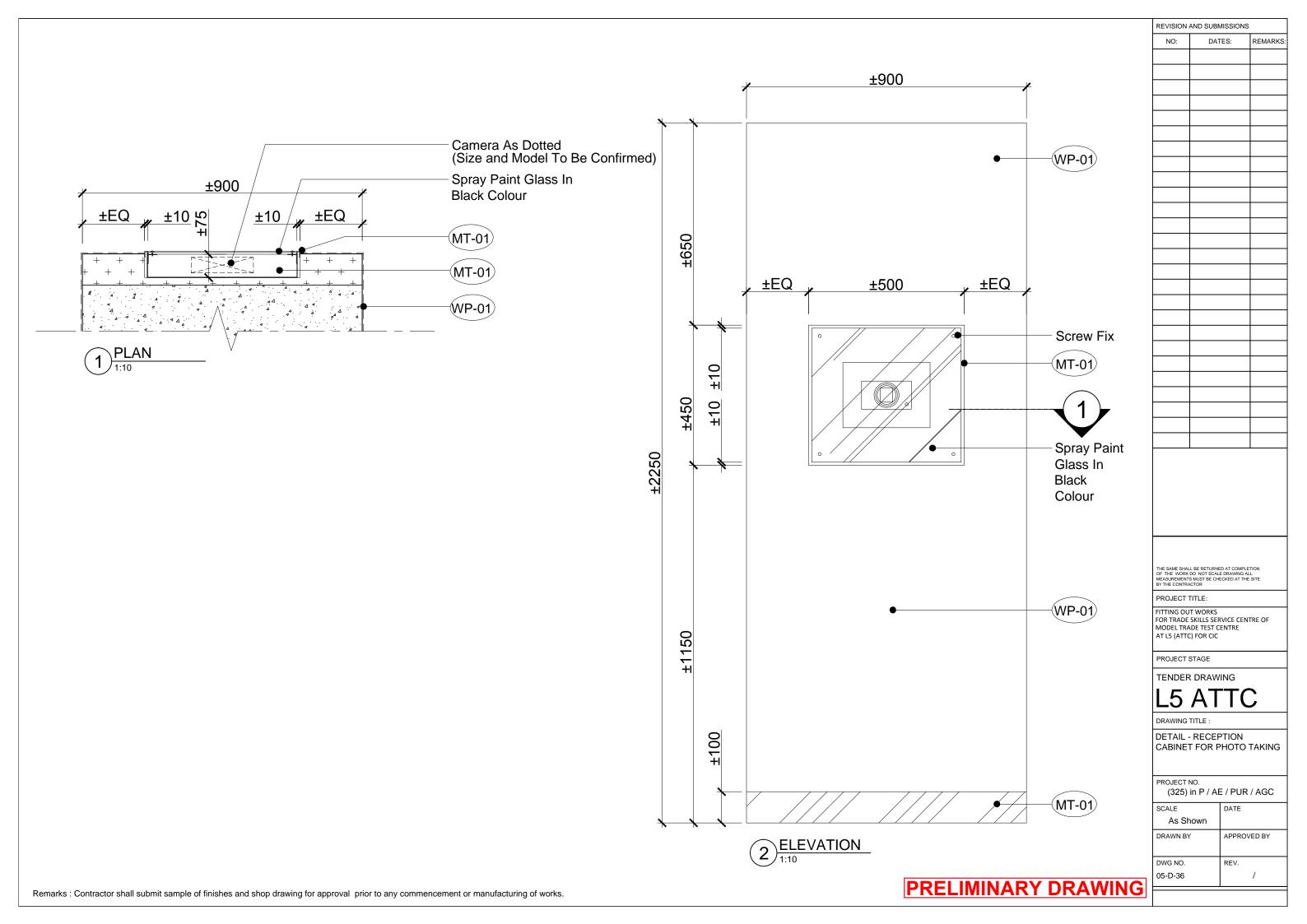
PROJECT NO. (325) in P / AE / PUR / AGC

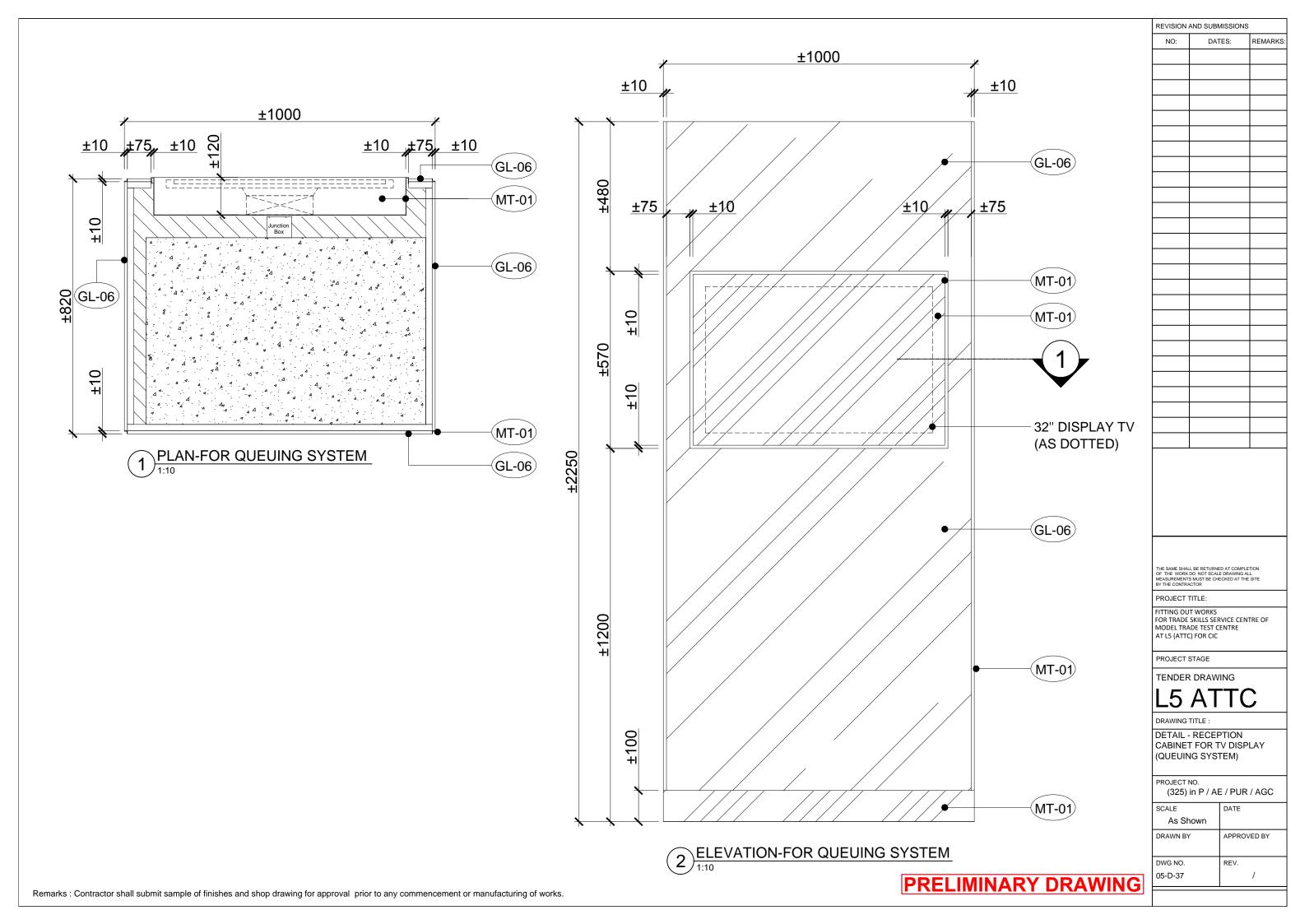
SCALE DATE

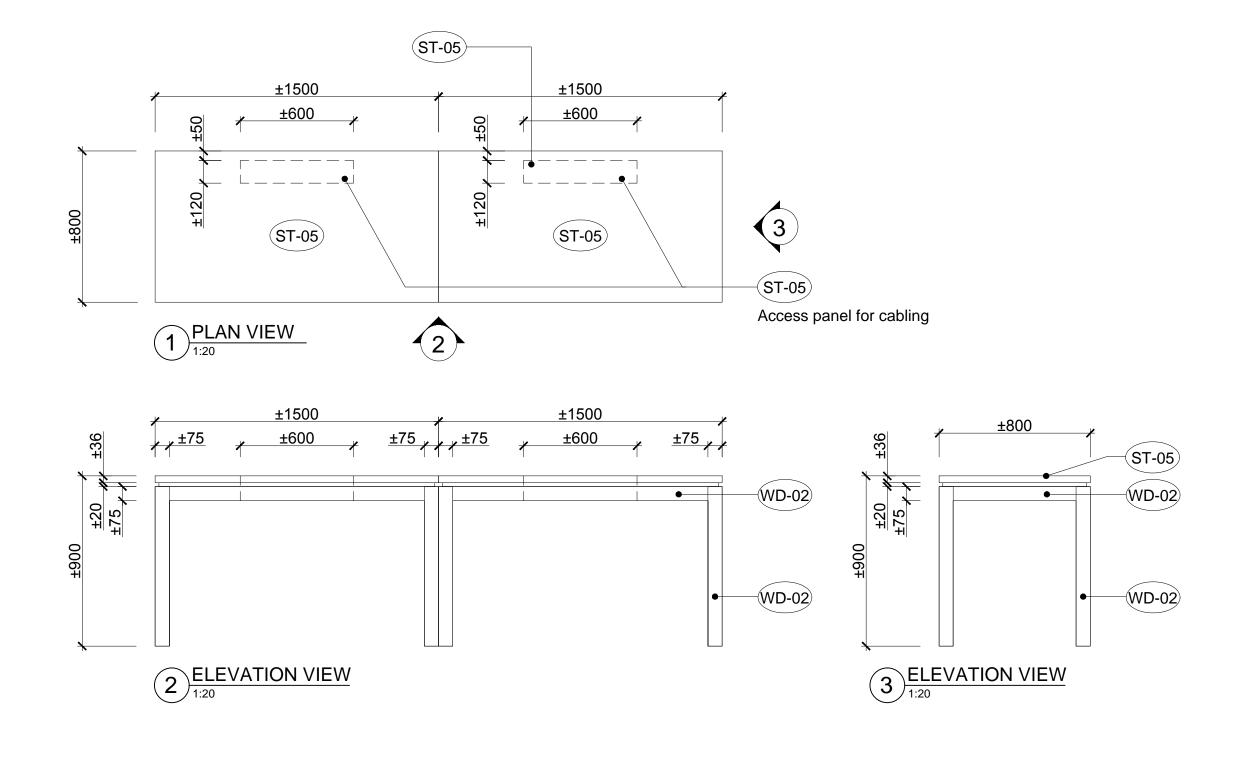
As Shown

DRAWN BY APPROVED BY

DWG NO. REV.
05-D-35 /







REVISION AND SUBMISSIONS NO: DATES: REMARKS:

THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS FOR TRADE SKILLS SERVICE CENTRE OF MODEL TRADE TEST CENTRE AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

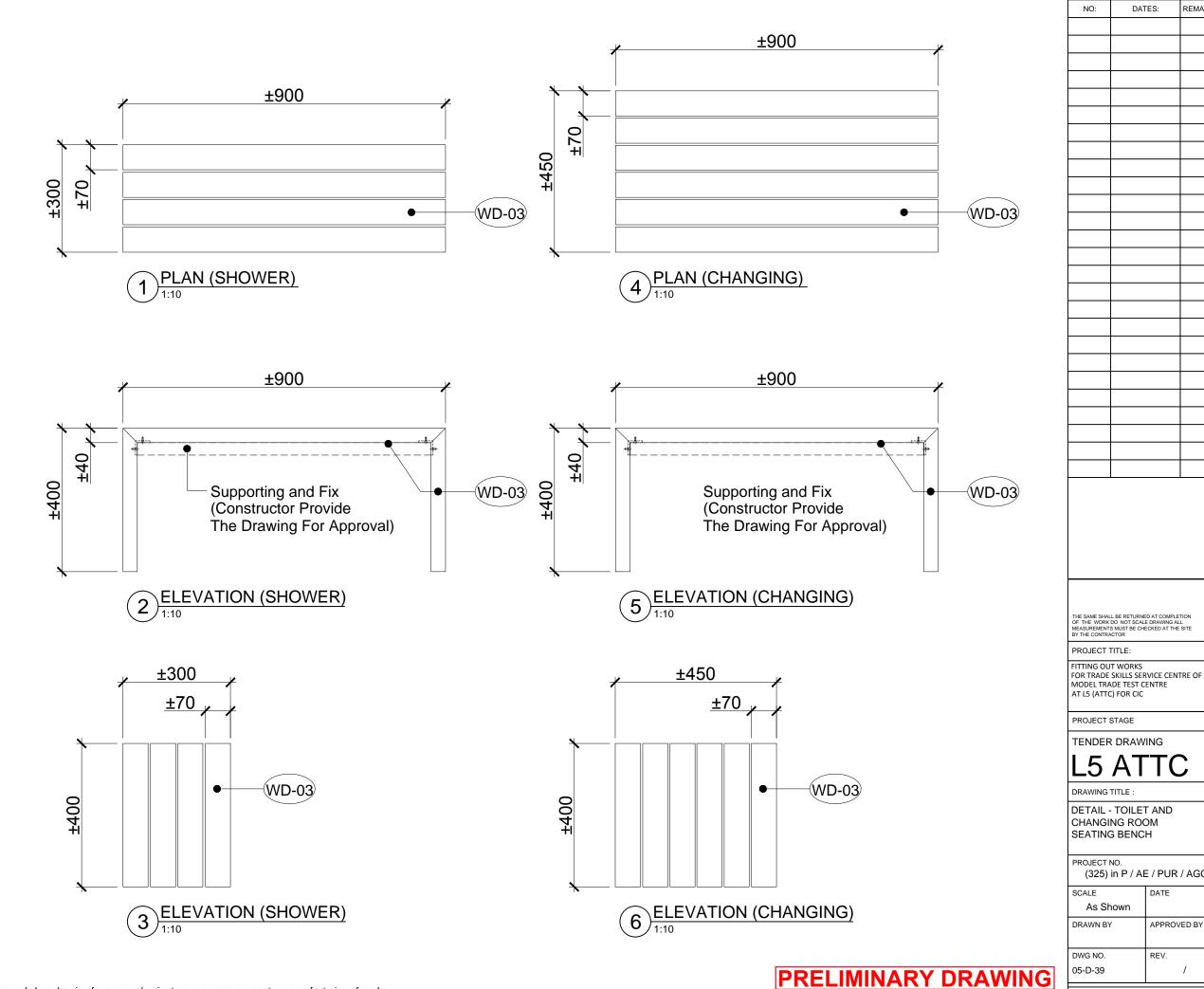
DRAWING TITLE :

DETAIL - RECEPTION INTERNET INFORMATION

PROJECT NO.

(325) in P / AE / PUR / AGC

SCALE	DATE
As Shown	
DRAWN BY	APPROVED BY
DWG NO.	REV.
05-D-38	/



REVISION AND SUBMISSIONS

DATES:

(325) in P / AE / PUR / AGC

As Shown

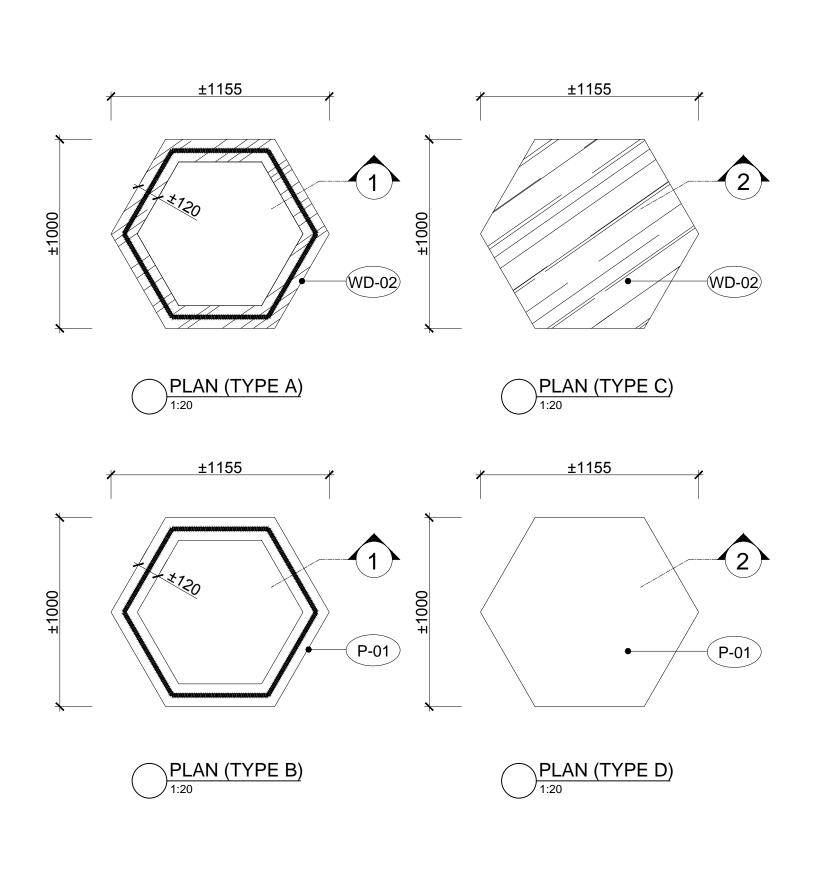
DATE

REV.

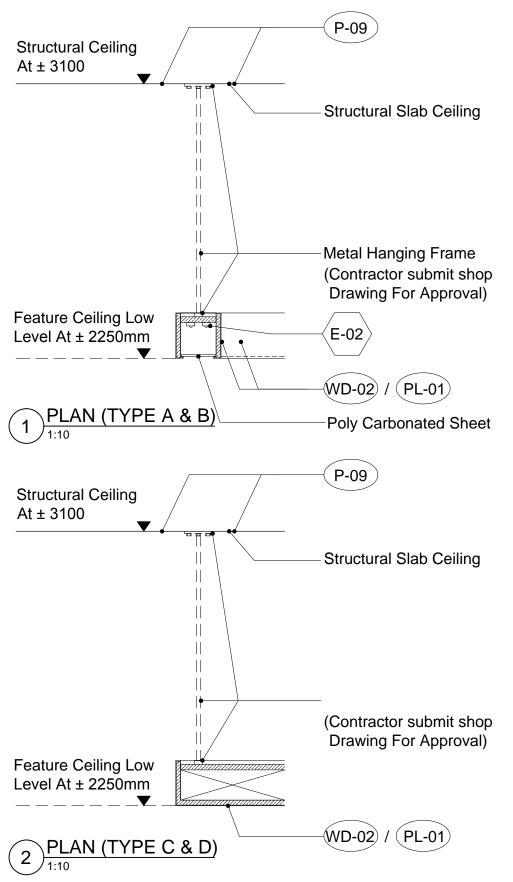
APPROVED BY

REMARKS:

Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.



Remarks: Contractor shall submit sample of finishes and shop drawing for approval prior to any commencement or manufacturing of works.



PRELIMINARY DRAWING

REVISION AND SUBMISSIONS

DATES:

REMARKS:

NO:

PROJECT TITLE:

PROJECT STAGE

DRAWING TITLE

SYSTEM

SCALE

DWG NO.

05-D-40

PROJECT NO.

As Shown

TENDER DRAWING

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

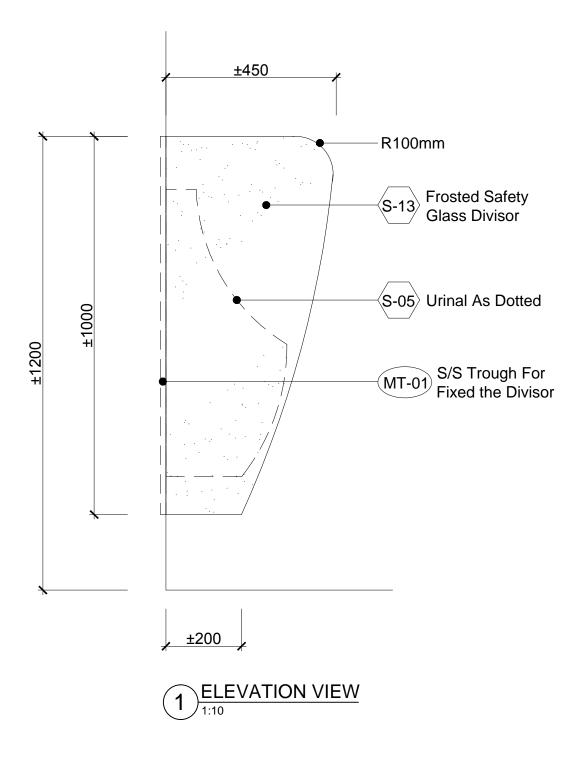
DETAIL - RECEPTION AND REST AREA HEXAGONAL SUSPENDED FALSE CEILING

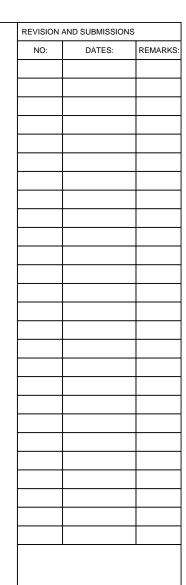
(325) in P / AE / PUR / AGC

DATE

REV.

APPROVED BY





THE SAME SHALL BE RETURNED AT COMPLETION OF THE WORK DO NOT SCALE DRAWING ALL MEASUREMENTS MUST BE CHECKED AT THE SITE BY THE CONTRACTOR

PROJECT TITLE:

FITTING OUT WORKS
FOR TRADE SKILLS SERVICE CENTRE OF
MODEL TRADE TEST CENTRE
AT L5 (ATTC) FOR CIC

PROJECT STAGE

TENDER DRAWING

L5 ATTC

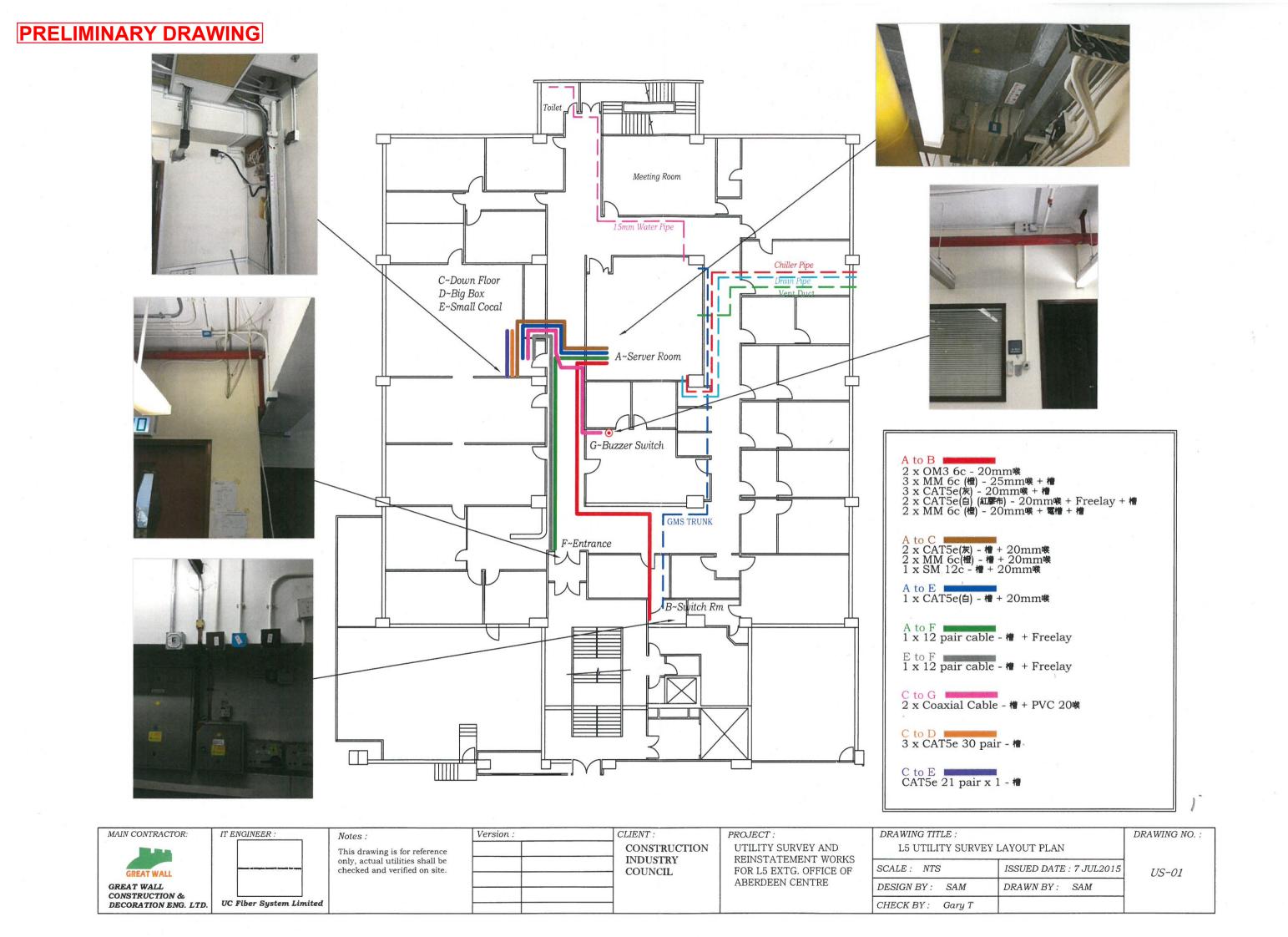
DRAWING TITLE :

DETAIL - TOILET AND CHANGING ROOM WALL MOUNTED URINAL DIVISOR

PROJECT NO.

(325) in P / AE / PUR / AGC

SCALE	DATE
As Shown	
DRAWN BY	APPROVED BY
DWG NO.	REV.
05-D-41	/



Memorandum of Agreement

of

Design, Project Management and Fitting Out Works for Trade Test Service Centre

of Model Trade Test Centre

for

the Construction Industry Council

October 2017

© 2017 Construction Industry Council

The contents of this document remain the property of the CIC, and may not be reproduced in whole or in part without the expressed permission of the CIC.

Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council (325) in P/AE/PUR/AGC

To be Signed by a Contractor

MEMORANDUM OF AGREEMENT

MEMORA	NDUM OF AGREEMENT made on theday of
	WEEN THE CONSTRUCTION INDUSTRY COUNCIL of 1
	(hereinafter called "the Employer")
of the one p	part and ²
	of ³
(hereinafter the Contract of Design, Model Tract details of v the Contract Brief, Contract Conditions	recalled "the Contractor") of the other part WHEREAS the Employer requires etor to execute, complete and maintain the whole of the said works in respect Project Management and Fitting Out Works for Trade Test Service Centre of the Test Centre for the Employer (hereinafter called "the Assignment") and which are set out in the Assignment Brief annexed hereto AND WHEREAS etor has agreed to complete the works in accordance with the Assignment additions of Employment annexed hereto (hereinafter referred to as "the "), and subject to the payment to him by the Employer of the fees and other et out in the Fee Proposal and the Conditions annexed hereto.
NOW THE	REFORE IT IS AGREED AS FOLLOWS :-
1.	This Agreement shall comprise :-
	(a) Conditions of Tender and Appendices
	(b) Special Conditions of Tender
	(c) Form of Tender
	(d) CIC's General Conditions of Contract and Guidelines for Works or Services (2b-CAR) *
	(e) Assignment Brief and its Annexes
	(f) Technical Proposal and Fee Proposal
	(g) General Conditions of Employment
	(h) Contractor's Safety Requirements
	(i) Any relevant correspondence
	all of which are annexed hereto.
2.	The Director for the purposes of this Agreement shall be ⁴

Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council (325) in P/AE/PUR/AGC

3. In consideration of the payments made at the times and in the manner set forth in the Agreement by the Employer, the Contractor hereby jointly and severally⁵ undertakes to perform and complete the said works subject to and in accordance with the Agreement.

IN WITNESS this Agreement has been executed as a deed on the date first above written

	SIGNED for and on behalf of)
	the Employer by ⁶)
)
)
	in the presence of	
	Signature, name and address	
(a)	SIGNED for and on behalf of)
	the Contractor by ⁷)
	·)
)
	in the presence of	
	Signature, name and address	
	OR	
(b)	SIGNED for and on behalf of and as	`
(0)	lawful attorney for ²))
	under power of)
	attorney dated)
	By)
	2)	,
	in the presence of	
	Signature, name and address	

OR

Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council (325) in P/AE/PUR/AGC

(c) SIGNED on behalf of the Contractor by ⁸
)

)

in the presence of Signature, name and address

NOTES: (for preparation of but not inclusion in the engrossment of the Memorandum of Agreement)

Case (a) is for use where the Contractor executes the Assignment.

Case (b) is for use where the Contractor executes through an attorney.

Case (c) is for use where the Contractor comprises a partnership or consortium. As regards the attestation clause, each member forming the partnership or consortium just executes.

- 1 Insert the address for service of documents.
- 2 Insert the name of the Contractor.
- 3 Insert the address of the Contractor.
- 4 Insert the post title.
- Delete "jointly and severally" where cases (a) or (b) apply. Initial the deletion by the signatories of the Memorandum of Agreement.
- 6 Insert the name and appointment of the officer.
- Insert the name(s) and capacity of the person(s) (usually the Directors of the Contractor) executing the Agreement for the Contractor. The person's authority to execute the Agreement for the Contractor is prescribed in the Memorandum of Association of the Contractor.
- 8 Insert the names of the partners.

General Conditions of Employment

of

Design, Project Management and Fitting Out Works for

Trade Test Service Centre

of

Model Trade Test Centre

for

the Construction Industry Council

October 2017

© 2017 Construction Industry Council

The contents of this document remain the property of the CIC, and may not be reproduced in whole or in part without the expressed permission of the CIC.

Table of Contents

Clai	use	Page
1	Definitions	CE-4
2	Singular and Plural	CE-5
3	Marginal Headings	CE-5
4	Laws	CE-5
5	Interpretation	CE-5
6	Memorandum of Agreement	CE-5
7	Documents Mutually Explanatory	CE-5
8	Use of English Language and Metric Units	CE-6
9	Confidentiality	CE-6
10	Information to be supplied by the Employer	CE-6
11	Information to be supplied by the Contractors	CE-7
12	Retention of Documents and Audit Inspection	CE-7
13	Attendance at Meetings	CE-7
14	Facilities for Inspection	CE-7
15	Approval of Documents	CE-7
16	Delegation of Employer's Power	CE-8
17	Amendments to the Contract Conditions	CE-8
18	Written Approval	CE-8
19	Consultation	CE-8
20	Response to Queries	CE-8
21	Exclusive Ownership	CE-9
22	Care and Diligence	CE-9
23	Instruction and Procedure	CE-9
24	Approval for Variations and Claims	CE-10
25	Referral of Variations and Claims	CE-10

Ref.	(325)	in (P/A1	E/PI	IR/A	ΛGC
IXUI.	122	, 111	$I/\Lambda I$	L/I (\mathbf{v}

26	Programme to be Submitted and AgreedCE-10
27	PaymentCE-11
28	Fees to be Inclusive
29	Payment in Hong Kong DollarsCE-11
30	Expenses incurred in currencies other than Hong Kong dollars (not used)
31	Payment of Accounts
32	Rendering of Accounts
33	Payment for Additional Services
34	Reduction of Lump Sum Fees
35	Notifications and Payment for Delays
36	Resident Site Staff (not used)
37	Non-AssignmentCE-14
38	Employment and Replacement of Sub-contractorsCE-14
39	Liability of Contractor for acts and default of sub-contractorsCE-14
40	Publicity relating to contract works (not used)CE-14
41	Suspension, resumption or termination
42	Special Risks (not used)
43	Appeal to EmployerCE-15
44	Settlement of Disputes
45	Prevention of BriberyCE-16
46	Declaration of Interest
47	InsuranceCE-17
48	Safety Precaution
49	Avoidance of Nuisance and Making Good Working AreasCE-17
50	Disclosure of Information
51	Code of Conduct for StaffCE-18
52	ProbityCE-18

Ref. (325) in P/AE/PUR/AGC

53	Copyright	CE-19
54	Consultant's / Contractor's Claims for Extras	CE-19
55	Commencement of the Works	CE-19
56	Time for Completion	CE-19
57	Liquidated Damages	CE-19
58	Completion of the Works	CE-20
59	Variations	CE-21
60	Valuation of Variations	CE-22
61	Rights of Third Parties	CE-24

Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council
Ref. (325) in P/AE/PUR/AGC

General Conditions of Employment for Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council

1 Definitions

In the Agreement as hereinafter defined the following words and expressions shall have the meaning hereby assigned to them except when the context otherwise requires:

- "Agreement" means and includes the Memorandum of Agreement, Conditions of Employment for Design, Project Management and Fitting Out Works for Trade Test Service Centre of Model Trade Test Centre for the Construction Industry Council, the Assignment Brief and its Annexes, Fee Proposal and such other documents as may be referred to in the Memorandum of Agreement.
- "Assignment" means that part of the Project undertaken by the Contractor as detailed in the Assignment Brief and its Annexes.
- "Assignment Brief" means the document attached to the Memorandum of Agreement which describes the Project and sets out the details of the Assignment.
- "Consultant / Contractor" means the person, firm or company named in the Memorandum of Agreement and includes the Contractor's permitted assignees.
- "Deliverables" means all the reports, drawings, documents, software, certificates and other items described in the Assignment Brief and its Annexes (if any) which are to be produced by the Contractor under the Assignment.
- "Director" means the person designated in the Memorandum of Agreement to act as the Director or such other person as may be appointed from time to time by the Employer and notified in writing to the Contractor to act as the Director for the purposes of this Agreement and the person so designated or appointed.
- "Employer" means the Construction Industry Council, (CIC).
- "Government" means the Government of the Hong Kong Special Administrative Region.
- "Project" means the scheme described in the Assignment Brief and its Annexes, of which the Assignment forms a part.
- "Project Manager" means the person(s) directly employed by the CIC and/or any project management consultant(s) separately and independently employed by the CIC, who are assigned/delegated by the CIC to act as Resident Project Manager(s) and/or Resident Project Manager Representative(s) to assist the CIC in managing the Contractor to run the project.

"Services" means duties, work, services, surveys and investigations to be carried out and obligations to be fulfilled by the Contractor under this Agreement.

"Quantity Surveyor" means a qualified quantity surveying professional or quantity surveying company separately and independently employed by the CIC to act as Quantity Surveyor for this project. The duties include but not limited to assessment and certification of interim payments and/or valuation of variations and/or claims and/or extension of time and/or final account etc. for the CIC's approval.

2 Singular and Plural

Words and expressions in the singular include the plural and words and expressions in the plural include the singular where the context so implies.

3 Marginal Headings

The index, marginal notes or headings in any documents forming part of the Agreement shall not in any way vary, limit or extend the interpretation of the Agreement.

4 Laws

The Agreement shall be governed by and construed according to the laws for the time being in force in HKSAR.

5 Interpretation

The Interpretation and General Clauses Ordinance shall apply to the Agreement.

6 Memorandum of Agreement

The Contractor when called upon to do so shall enter into and execute a Memorandum of Agreement which shall be prepared at the cost of the Employer in the form annexed with such modifications as may be necessary.

7 Documents Mutually Explanatory

- (A) Save to the extent that any Special Conditions of Employment provides to the contrary the provisions of the Conditions of Employment shall prevail over those of any other document forming part of the Agreement.
- (B) Subject to sub-clause (A) of this Clause the several documents forming the Agreement are to be taken as mutually explanatory of one another but in the case of ambiguities and discrepancies the same shall be explained and adjusted by the Employer.

8 Use of English Language and Metric Units

All the correspondence in connection with this Agreement shall be in English. All Deliverables shall be in English and metric units shall be used throughout, unless otherwise stated in the Assignment Brief or approved by the Employer.

9 Confidentiality

- (A) Save for the performance of the Services the Contractor shall not disclose the terms and conditions of this Agreement or any information, specifications, documents, drawing, plan, software, data or particulars furnished by or on behalf of the Employer in connection therewith, to any person other than a person employed or engaged by the Contractor in carrying out this Assignment or any approved sub-contractors or the Contractor's legal and insurance advisers.
- (B) Any disclosure to any person, sub-contractors or advisers permitted under sub-clause (A) of this Clause shall be in strict confidence and shall extend only so far as may be necessary for the purpose of this Agreement and the Contractor shall take all necessary measures to ensure the confidentiality of any such disclosure.
- (C) The Contractor shall not without the prior written consent of the Director which approval shall not be unreasonably withheld publish, either alone or in conjunction with any other person, in any newspaper, magazine, or periodical, any article, photograph or illustration relating to this Agreement.
- (D) If the Contractor has provided the Employer with documents and information which he has declared in writing to be confidential and stamped accordingly whether in relation to his practice or special circumstances or for other good causes, unless the Director within two months of receipt of such information by notice in writing disagrees, then that information will be treated as confidential. The Employer shall not permit the disclosure of such confidential information to third parties without the written consent of the Contractor.

10 Information to be supplied by the Employer

The Employer shall keep the Contractor informed on such matters as may appear to him to affect the performance of the Services and shall give such assistance, approvals, and decisions in writing as and when they shall reasonably be required for the performance of the Services.

11 Information to be supplied by the Contractors

The Contractor shall keep the Employer informed on all matters related to the Assignment within the knowledge of the Contractor including details of all staff employed by them in the performance of the Services and shall answer all reasonable enquiries received from the Employer and render reports at reasonable intervals when asked to do so and shall assist the Employer to form an opinion as to the manner in which they are proceeding with the Assignment.

12 Retention of Documents and Audit Inspection

- (A) For a period of 2 years commencing with the completion of any works contract, supervision of which is part of the Services, the Contractor shall retain and provide spaces for that purpose all his records, data, accounts and other information in respect of the services.
- (B) The Contractor shall give assistance to Employer for the purpose of audit inspection to inspect such records, data, accounts and other information whatsoever and shall answer queries or supply information reasonably requested by such personnel in pursuance of such audit inspection.

13 Attendance at Meetings

The Contractor shall, if reasonably possible, attend or be represented at all meetings convened by the Employer to which he may be summoned and shall advise and assist the Director and the Employer on all matters relating to the Services.

14 Facilities for Inspection

The Contractor shall at all time give to the Director, his representatives and any persons duly authorized by him reasonable facilities to inspect or view the documents, records and correspondence in his possession relevant to this Agreement.

15 Approval of Documents

- (A) The Contractor shall, when so requested by the Employer, submit to him for his approval such record, data, account or other documents, matters or things prepared by them as a direct requirement of the Assignment as he may specify or require.
- (B) No such approval shall affect the responsibility of the Contractor in connection with the Services.

16 Delegation of Employer's Power

The Contractor shall take instructions and directions and, where appropriate, receive the Employer's decisions and views only through the Employer and, subject to any limitations imposed by the Employer in any letter of authority granted by him, such other person to whom the Employer may delegate his powers.

17 Amendments to the Contract Conditions

- (A) The Employer shall make any changes to the Contract Conditions which he considers necessary or desirable for the successful completion of the Assignment or the Project.
- (B) Any queries on, or suggestions for amendments to the Contract Conditions shall be referred to the Employer for his clarification or instructions regarding further action.

18 Written Approval

The Contractor shall obtain the written approval of the Employer prior to entering into any commitment to expenditure for which there is provision for reimbursement under the Fee Proposal.

19 Consultation

The Contractor shall, as may be necessary for the successful completion of the Assignment, consult all authorities, or who may be appointed by the Employer in connection with the Assignment and bodies or persons affected by the Assignment.

20 Response to Queries

- (A) The Contractor shall respond to queries on the findings and conclusions of this Assignment raised during the period defined in the Assignment Brief for such queries by the Employer or by any Contractor who may be appointed by the Employer for the subsequent stage of the Project.
- (B) The Contractor shall use his best endeavours to respond to queries on the findings and conclusions of this Assignment raised after the period defined in the Assignment Brief for such queries by the Employer or any person who may be appointed by the Employer or nominated by the Employer.

21 Exclusive Ownership

The Employer shall become the exclusive owner of all Deliverables, save those Deliverables under licence or those Deliverables in respect of which there is a pre-existing copyright or patent, supplied or produced by, for or on behalf of the Contractor under this Agreement. The liability of the Contractor in respect of the Employer's use of such Deliverables shall be limited to liabilities arising from uses contemplated under this Agreement or expressly agreed to in writing by the Contractor. The Employer hereby:

- (i) Indemnifies the Contractor against all claims, damages, losses or expenses suffered by the Employer; and
- (ii) Agrees to indemnify the Contractor against all claims, made by third parties against the Contractor;

arise out of or in connection with a use by the Employer of any Deliverable which use was not contemplated under this Agreement or not expressly agreed to in writing by the Contractor.

22 Care and Diligence

- (A) The Contractor shall exercise all reasonable professional skill, care and diligence in the performance of all and singular the Services and, in so far as his duties are discretionary, shall act fairly between the Employers and any third party.
- (B) The Contractor shall, in respect of any work done or information supplied by or on behalf of the Employer, report to the Employer any errors, omissions and shortcomings of whatsoever nature of which the Contractor becomes aware in the performance of the Services.
- (C) The Contractor shall indemnify and keep indemnified the Employer against all claims, damages, losses or expenses arising out of or resulting from any negligence in or about the conduct of and performance by the Contractor, his servants or agents, of the Services.
- (D) In the event of any errors or omissions for which the Contractor is responsible and as a result of which the re-execution of the Services is required, the Contractor shall, without relieving any liability and obligation under the Agreement, at his own cost re-execute such Services to the satisfaction of the Employer.

23 Instruction and Procedure

The Contractor shall comply with all reasonable instructions of the Director or the Employer. The Employer shall issue to the Contractor general instructions on procedure and shall supply such additional information as may be required.

24 Approval for Variations and Claims

The Contractor shall obtain prior approval in writing of the Employer to the order of a variation to the contract works or to the commitment otherwise of the Employer to expenditure under the works contract other than in respect of claims, if the value of such order or commitment is estimated to exceed the sum specified in the Assignment Brief, or if not specified in the Assignment Brief, as advised in writing by the Employer. With the exception that in emergencies such prior approval shall not be required, provided that the order or other commitment is essential and that it is impractical to seek the prior approval of the Employer.

25 Referral of Variations and Claims

- (A) Notwithstanding the requirements of Clause 24 the Contractor shall:
 - (i) refer the details of every variation to the Contract Works under any such Works Contract, including the reasons for it and its estimated value, to the Employer for information as soon as the variation is ordered.
 - (ii) as soon as the value of a variation to the Contract Works has been determined, refer the details of the evaluation to the Employer for information.
 - (iii) report to the Employer all claims for additional payment made by the Contractor and, except for those solely in respect of agreement of rates, refer the principles underlying their assessment of each claim, to enable the Employer to provide its view of the matter before the Contractor reaches a decision; and
 - (iv) report to the Employer all delays to the progress of the Contract Works and, except for those delays solely in respect of inclement weather conditions, refer his assessment of granting of extension of time for completion, if any, to enable the Employer to provide its view of the matter before the Contractor reach a decision.
- (B) The foregoing referrals and reporting to the Employer shall be in writing.

26 Programme to be Submitted and Agreed

(A) The Contractor may propose changes to some or all of the key dates specified in the Assignment Brief for incorporation into the draft programme prepared under sub-clause (B) of this Clause. If any of such proposed changes are agreed by the Employer, who may impose conditions on his agreement, the corresponding key dates shall be changed and the changed dates incorporated into the draft programme.

- (B) The Contractor shall submit a draft programme which shall be in accordance with the requirements of the Assignment Brief and shall incorporate the key dates specified in the Assignment Brief, including any changes agreed under sub-clause (A) of this Clause. The Employer shall either agree the draft programme or instruct the Contractor to submit a revised draft programme which he shall do.
- (C) If the Employer does not agree the revised draft programme submitted under sub-clause (B) of this Clause, he shall issue an instruction under Clause 23 to the Contractor.
- (D) When the Employer has agreed the draft programme or the revised draft programme submitted under sub-clause (B) of this Clause or such other draft programme as may result from sub-clause (C) of this Clause, the agreed draft programme or revised draft programme shall become the Agreed Programme for carrying out the Assignment and shall be amended only with the approval of the Employer.

27 Payment

Payments under this Agreement shall be made in accordance with the Fee Proposal.

28 Fees to be Inclusive

Unless provided otherwise, the fees quoted in the Fee Proposal shall be inclusive of all labour, materials and expenses incurred in the performance of the Services.

29 Payment in Hong Kong Dollars

Unless provided otherwise, payments shall be made in Hong Kong dollars.

30 Expenses incurred in currencies other than Hong Kong dollars (not used) *Not used.*

31 Payment of Accounts

(A) Except as provided for in sub-clause (B) of this Clause accounts of all money due from the Employer to the Contractor in accordance with this Agreement shall be paid within 30 days after receipt of the Contractor's invoice by the Employer. In the event of failure by the Employer to make payment to the Contractor in compliance with the provisions of this Clause the Employer shall pay to the Contractor interest at the judgment debt rate prescribed from time to time by the Rules of the Supreme Court (Chapter 4 of the Laws of Hong Kong) (interpreted in accordance with the Hong Kong Reunification Ordinance) upon any overdue payment from the date on which the same should have been made.

(B) If any item or part of an item of an account rendered by the Contractor is reasonably disputed or reasonably subject to question by the Employer, the Employer shall within 14 days after receipt of the invoice by the Employer inform the Contractor in writing of all items under dispute or subject to question. Payment by the Employer of the remainder of that account shall not be withheld on such grounds and the provisions of sub-clause (A) of this Clause shall apply to such remainder.

32 Rendering of Accounts

The Contractor shall render his accounts for interim payments in accordance with the Fee Proposal.

33 Payment for Additional Services

The Contractor shall be entitled to payment for the performance of any Services which he could not reasonably have anticipated at the time of entering into this Agreement resulting from:

- (i) explanations of adjustments made under sub-clause (B) of Clause 7;
- (ii) changes to the Assignment Brief made under sub-clause (A) of Clause 17;
- (iii) clarifications or instructions given under sub-clause (B) of Clause 17; and
- (iv) instructions given under Clause 23.

Provided that such Services are not attributable to default on the part of the Contractor.

34 Reduction of Lump Sum Fees

If there shall be a reduction in the Services resulting from:

- (i) explanations or adjustment made under sub-clause (B) of Clause 7;
- (ii) changes to the Assignment Brief made under sub-clause (A) of Clause 17;
- (iii) clarifications or instructions given under sub-clause (B) of Clause 17; and
- (iv) instructions given under Clause 23;

then the Employer shall be entitled to a reduction in the lump sum fees in respect of such a reduction in the Services.

35 Notifications and Payment for Delays

- (A) The Contractor shall not be entitled to payment in respect of any additional costs he incurs as a result of delays arising during the performance of the Services if the causes of delay which are the fault of neither party.
- (B) The Contractor shall notify the Employer when a delay arises and shall detail what in his opinion are the reasons for the delay, the consequences or likely consequences of the delay and any additional costs he has incurred or may incur.
- (C) The Contractor shall keep such contemporary records as may reasonably be necessary to support any claim for payment under this Clause and shall give to the Employer details of the records being kept in respect thereof. Without necessarily admitting the Employer's liability, the Employer may require the Contractor to keep and agree with the Employer any additional contemporary records as are reasonable and may in the opinion of the Employer be material to the claim. The Contractor shall permit the Employer to inspect all records kept pursuant to this Clause and shall supply copies thereof as and when the Employer so requires.
- (D) After the giving of a notice of delay to the Employer under sub-clause (B) of this Clause, the Contractor shall, as soon as is reasonable, send to the Employer a first interim account giving full and detailed particulars of the circumstances giving rise to the delay and any additional costs he incurred. Thereafter at such intervals as the Employer may reasonably require, the Contractor shall send to the Employer further up-to-date accounts giving the accumulated total of the additional costs and any further full and detailed particulars in relation thereto.
- (E) If the Contractor fails to comply with the provisions of sub-clause (B) of this Clause in respect of any claim, such claim shall not be considered.
- (F) If the Contractor fails to comply with the provisions of sub-clauses (C) or (D) of this Clause in respect of any claim, the Employer may consider such claim only to the extent that the Employer is able on the information made available.
- (G) The Contractor shall take all reasonable steps to mitigate the costs which may be incurred as a result of the delays.

36 Resident Site Staff (not used)

Not used.

37 Non-Assignment

The Contractor shall not have the right to assign or transfer the benefit and obligations of this Agreement or any part thereof.

38 Employment and Replacement of Sub-contractors

The Contractor shall obtain the prior written approval of the Employer to:

- (i) the appointment of sub-contractors to undertake any part of the Services; and
- (ii) the replacement of any sub-contractors appointed under sub-clause (i) of this Clause.

39 Liability of Contractor for acts and default of sub-contractors

The appointment of sub-contractors to undertake any part of the Services shall not relieve the Contractor from any liability or obligation under this Agreement and he shall be responsible for the acts, default and neglects of any sub-contractors, his agents, servants or workmen as fully as if they were the acts, default and neglects of the Contractor, his agents, servants or workmen.

40 Publicity relating to contract works (not used)

Not used.

41 Suspension, resumption or termination

- (A) This Agreement may be suspended or terminated by the Employer at any time, by the Employer giving the Contractor one months' notice in writing.
- (B) On suspension or termination, the Contractor shall be paid all fees and expenses commensurate with the Services performed by them up to the date of suspension or termination less all fees and expenses previously paid to the Contractor. The Contractor has the obligations to stop work immediately but in an orderly manner and do deliver to the Employer documents in its control relating to the Project. The Employer shall not be liable for any loss of profits and other losses incurred by the Contractor as a result of termination or suspension. The Employer reserves its right to claim for loss and damages against the Contractor as a result of termination of his contract including re-nominating the others to carry out and complete the remaining items. In case the payment balance is insufficient to cover the actual loss being suffered by the Employer, the Contractor has to reimburse the same accordingly.

- (C) In the event of suspension or termination the Contractor shall be entitled to reimbursement of the actual cost of or an amount in fair compensation for any financial commitment or obligation outstanding after the giving of the notice of suspension or termination which he has properly incurred in accordance with this Agreement prior to the giving of the notice of suspension or termination.
- (D) The payments referred to in sub-clauses (B) and (C) of this Clause shall be deemed in full and final payment for the Services up to the date of suspension or termination. The Contractor shall be entitled to such payments only if the suspension or termination is not attributable to default on the part of the Contractor.
- (E) In the event of suspension and subsequent resumption of this Agreement the Contractor shall be reimbursed any expenses necessarily incurred as a result of such resumption.
- (F) If this Agreement is resumed any payment of fees under this Clause except in respect of abortive work that has to be re-done shall rank as payment on account towards the fees payable under this Agreement.
- (G) Should this Agreement continue to be suspended for a period of more than two years then either:
 - (i) it shall be terminated upon the written notice of either party; or
 - (ii) it may be renegotiated with the agreement of both parties.

42 Special Risks (not used)

Not used.

43 Appeal to Employer

The Contractor shall have the right to appeal to the Employer against any instruction or decision of the Director which he considers to be unreasonable.

44 Settlement of Disputes

(A) If any dispute or difference of any kind whatsoever shall arise between the Employer and the Contractor in connection with or arising out of this Agreement, either party shall be entitled to refer the dispute or difference to the Employer Delegates and the partner or director of the Contractor, who shall meet within 21 days of such matter being referred to them.

- (B) If the dispute or difference cannot be resolved within 2 months of a meeting under sub-clause (A) of this Clause or upon written agreement that the dispute or difference cannot be resolved, either the Employer or the Contractor may at any time thereafter request that the matter be referred to mediation in accordance with and subject to the Hong Kong International Arbitration Centre Mediation Rules or any modification thereof for the time being in force.
- (C) If the matter cannot be resolved by mediation, or if either the Employer or the Contractor do not wish the matter to be referred to mediation then either the Employer or the Contractor may within the time specified herein require that the matter shall be referred to arbitration in accordance with and subject to the provisions of the Arbitration Ordinance (Chapter 609, Laws of Hong Kong) or any statutory modification thereof for the time being in force and any such reference shall be deemed to be a submission to arbitration within the meaning of such Ordinance. Any such reference to arbitration shall be made within 90 days of either the refusal to mediate, or the failure of the mediation.
- (D) The Hong Kong International Arbitration Centre Domestic Arbitration Rules shall apply to any arbitration instituted in accordance with this Clause unless the parties agree to the contrary.

45 Prevention of Bribery

The Contractor shall inform his employees who are engaged either directly or indirectly on the formulation and implementation of a project of the Construction Industry Council that the soliciting or accepting of an advantage as defined in the Prevention of Bribery Ordinance is not permitted. The Contractor shall also caution his employees against soliciting or accepting any excessive hospitality, entertainment or inducements which would impair his impartiality in relation to the projects of the Construction Industry Council.

46 Declaration of Interest

- (A) On appointment and during the currency of this Agreement, the Contractor must declare any interest if it is considered to be in real or apparent conflict with the Services. The Contractor shall not undertake any services, which could give rise to conflict of interest, except with the prior approval of the Employer which approval shall not be unreasonable withheld.
- (B) In any case, the Contractor or any of his associated companies shall not undertake any services for a Contractor in respect of a contract between that Contractor and the Employer for which the Contractor is providing a service to the Employer.

47 Insurance

- (A) Without limiting his obligations and responsibilities nor his liability to indemnify the Employer under Clause 22 the Contractor shall, as from the date of commencement of this Agreement, and thereafter, maintain an insurance cover to meet any claims that may be made by the Employer in respect of any negligence in or about the conduct of and performance by the Contractor, his servants and agents of all and singular the Services.
- (B) In the event that through no fault of the Contractor it becomes impractical or unreasonable to maintain the said cover for the full period required by sub-clause (A) of this Clause, the Employer may approve alternative arrangements.
- (C) The foregoing insurance policy or policies shall be affected with an insurer (or insurers) and in terms acceptable to the Employer. Throughout the period of insurance the Contractor shall each year lodge with the Employer a certificate signed by and on behalf of the Contractor's insurers stating that the said policy or policies of insurance remain in force.
- (D) The amount of insurance cover as mentioned in sub-clause (A) of this Clause shall be a minimum of HK\$30 million.

48 Safety Precaution

The Contractor shall be responsible for taking all necessary steps in ensuring the safety of all persons and properties affected by the work stipulated under the Assignment in the vicinity of the works at all stages, whether or not they are engaged in the execution of the works.

49 Avoidance of Nuisance and Making Good Working Areas

- (A) All Contractor's operations shall be carried out in such a manner as to cause as little inconvenience as possible to residents, the public or the operation of construction sites. The Contractor shall be held responsible for any claim, which arises from non-compliance with this clause.
- (B) The Contractor shall take all reasonable care so as not to cause any damage to property or not to cause any nuisance. The Contractor shall indemnify the Employer against any claim arising from default of the Contractor in this respect.
- (C) The Contractor shall confine his operations to the minimum areas required for the works and shall at all times work in a tidy and considerate manner. As soon as work has been completed for any location, the Contractor shall remove all debris resulting from his activities and make good any damage.

50 Disclosure of Information

The Employer shall have the right to disclose to any person, whenever it considers appropriate or upon request by any third party (written or otherwise), and in such form and manner as it deems fit:

- (i) the fees, costs and expenses payable by the Employer for engaging the Contractor; and
- (ii) the fee proposal submitted by the Contractor.

51 Code of Conduct for Staff

- (A) The Contractor shall explicitly prohibit his employees from soliciting or accepting any advantages as defined in the Prevention of Bribery Ordinance when providing service in relation to this Assignment.
- (B) The Contractor shall implement a system requiring his employees to declare to him any interest they or their immediate families may have, or any conflict between their personal interest and their official positions, in relation to this Assignment.
- (C) The Contractor shall prohibit his employees to take up any outside work or employment, which could create or potentially give rise to a conflict of interest situation in connection with this Assignment.
- (D) The Contractor shall take adequate measures to protect any confidential / privileged information entrusted or obtained in relation to this Assignment; and his employees must not disclose to a third party any such information without prior consent from the Employer.
- (E) The Contractor shall prohibit his employees from introducing or recommending, directly or indirectly, service providers (including contractors) to owners, tenants or occupiers of premises in buildings covered by this Assignment.

52 Probity

The Contractor shall prohibit his employees, agents and sub-contractors who are involved in this Contract from offering, soliciting or accepting any advantage as defined in the Prevention of Bribery Ordinance, Cap 201 when conducting business in connection with this Contract. Any such offence committed by the Contractor or his employee or agent will render the tender null and void. The Employer may also terminate the contract granted.

53 Copyright

The copyright of all reports, documents, recommendations, Guidelines, Alerts and any other information prepared or collected by the Contractor's team, and their employees and agents in the course of this Agreement shall be with the Employer. The Contractor shall not disclose any information in relation to this Consultancy to any third party without the written consent of the Employer.

54 Contractor's Claims for Extras

- (A) The Contractor shall send to the CIC once in every month an account giving particulars (as full and detailed as possible) of all claims for any extension of contract period and / or additional expense to which the Contractor may consider himself entitled and of all extra or additional work contained in Contractor's instructions issued during the preceding month.
- (B) No consideration will be given to any claim for extension of contract period and / or payment for additional expense or extra or additional work which has not been made within a reasonable time to enable the circumstances and reasons for extensions or the additional expense to be ascertained and evaluated.

55 Commencement of the Works

The Contractor shall commence the Works on the date for commencement of the Works as notified in writing by the Employer and shall proceed with the same with due diligence. The Contractor shall not commence the Works before the notified date for commencement.

56 Time for Completion

- (A) The Works and any Section thereof shall be completed within the time or times stated in the Contract calculated from and including the date for commencement notified by the Employer in accordance with Clause 55 or such extended time as may be determined in accordance with Clause 54.
- (B) General Holidays shall be included in the time for completion unless otherwise stated in the Contract.

57 Liquidated Damages

(A) If the Contractor fails to complete the Works or where the Works are divided into Sections any Section within the time for completion prescribed by Clause 56 or such extended time as may be granted in accordance with Clause 54, then the Employer shall be entitled to recover from the Contractor liquidated damages. The payment of such damages shall not relieve the Contractor from his obligations to complete the Works or from any other of his obligations under the Contract.

- (B) The liquidated damages shall be calculated using the rate per day prescribed in the Contract, either for the Works or for the relevant Section, whichever is applicable. Provided that, if the Employer certifies completion under Clause 58 of any part of the Works before completion of the Works or any part of any Section before the completion of the whole thereof, then the rate per day of liquidated damages for the Works or the relevant Section shall from the date of such certification be reduced in the proportion which the value of the part so certified bears to the value of the Works or the relevant Section, as applicable, both values as of the date of such certification shall be determined by the Employer.
- (C) The period for which liquidated damages shall be calculated shall be the number of days from the prescribed date for completion or any extension or revision thereof of the Works or the relevant Section until and including the certified date of completion.
- (D) All monies payable by the Contractor to the Employer pursuant to this Clause shall be paid as liquidated damages for delay and not as a penalty.

58 Completion of the Works

- (A) When the Works have been substantially completed and have satisfactorily passed any final test that may be prescribed by the Contract, the Contractor may serve notice in writing to that effect to the Employer, accompanied by an undertaking to carry out any outstanding work during the Defects Liability Period, requesting the Employer to issue a certificate of completion in respect of the Works. The Employer shall, within 21 days of the date of receipt of such notice either:
 - (i) issue a certificate of completion stating the date on which, in the Employer's opinion, the Works were substantially completed in accordance with the Contract and the Defects Liability Period shall commence on the day following the date of completion stated in such certificate, or
 - (ii) give instructions in writing to the Contractor specifying all the work which, in the Employer's opinion, is required to be done by the Contractor before such certificate can be issued, in which case the Contractor shall not be permitted to make any further request for a certificate of completion and the provisions of sub-clause (B) of this Clause shall apply.
- (B) Notwithstanding the provisions of sub-clause (A) of this Clause, as soon as in the opinion of the Employer the Works have been substantially completed and satisfactorily passed any final test which may be prescribed by the Contract, the Employer shall issue a certificate of completion in respect of the Works and the Defects Liability Period shall commence on the day following the date of completion stated in such certificate.

- (C) The Contractor shall carry out any outstanding work as soon as practicable after the issue of the certificate of completion or as reasonably directed by the Employer and in any event before the expiry of the Defects Liability Period. The Contractor's obligation to provide, service and maintain site offices, latrines and the like, shall continue for as long as may be required by the Employer.
- (D) The provisions of sub-clauses (A), (B) and (C) of this Clause shall apply equally to any Section.
- (E) (i) The Employer shall give a certificate of completion in respect of any part of the Works which has been completed to the satisfaction of the Employer and is required by the Employer for permanent occupation or use before the completion of the Works or any Section.
 - (ii) The Employer, following a written request from the Contractor, may give a certificate of completion in respect of any substantial part of the Works which has been completed to the satisfaction of the Employer before the completion of the Works or any Section and is capable of permanent occupation and/or permanent use by the Employer.
- (iii) When a certificate of completion is given in respect of a part of the Works such part shall be considered as completed and the Defects Liability Period for such part shall commence on the day following the date of completion stated in such certificate.
- (F) Any certificate of completion given in accordance with this Clause in respect of any Section or part of the Works shall not be deemed to certify completion of any ground or surface requiring reinstatement unless the certificate shall expressly so state.

59 Variations

- (A) The Employer may order in writing any Variation that is necessary for the completion of the Works or is in his opinion desirable for or to achieve the satisfactory completion and functioning of the Works. The Contractor shall forthwith carry out such Variation in accordance with the Employer's instruction.
- (B) No Variation ordered by the Employer shall in any way vitiate or invalidate the Contract but all such Variations shall be valued in accordance with Clause 60.
- (C) Any Variation ordered by the Employer may include a requirement for the Contractor to prepare and submit within 14 days of the Contractor receiving the Variation order, a lump sum quotation in writing for complying with the order.

- (D) (i) Notwithstanding sub-clause (C) of this Clause, prior to ordering a Variation, the Employer may request the Contractor to submit a lump sum quotation in writing within 14 days of receipt of such request, or within such other time as may be agreed between the Employer and the Contractor.
 - (ii) In the event that the Contractor is not subsequently instructed by the Employer to execute the Variation referred to in Clause 59(D)(i) above, the Contractor shall be entitled to any cost incurred in the preparation of the lump sum quotation which cost shall be ascertained and certified by the Employer.
- (E) (i) The Contractor may propose a Variation by submitting in writing to the Employer a proposal together with sufficient details and justification to show that:
 - (1) the time for construction of the Works can be reduced, and/or
 - (2) the future maintenance cost can be reduced, and/or
 - (3) the quality of design and/or the construction of the Works can be enhanced, and/or
 - (4) the Contract Sum can be reduced by the amount of the lump sum reduction that the Contractor can offer to the Employer, and
 - (5) in any event:
 - (1) the quality of the design or construction of the Works is not prejudiced, or
 - (2) the proposed Variation is in the interests of the Employer.
 - (ii) The Employer shall within 14 days of receipt of the Contractor's proposed Variation and supporting detailed information under sub-clause (E)(i) of this Clause, or within such time as may be agreed between the Contractor and the Employer, but solely at the discretion of the Employer, confirm whether or not he agrees to the proposed Variation and, if so, order the Contractor in writing to carry out the proposed Variation under this sub-clause.
 - (iii) No adjustment shall be made to the Contract Sum by virtue of this sub-clause except the reduction pursuant to sub-clause (E)(i)(4) of this Clause.

60 Valuation of Variations

- (A) The Employer shall determine the sum (if any) which in his opinion shall be added to or deducted from the Contract Sum as a result of a Variation order given by the Employer under Clause 59 (other than a Variation ordered under sub-clause (E) of Clause 59) in accordance with the following principles:
 - (1) by valuation in accordance with sub-clause (D) of this Clause, or
 - (2) by acceptance of a lump sum quotation prepared and submitted by the Contractor to the Employer in accordance with sub-clauses (E) and (F) of this Clause.

- (B) The valuation of any Variation ordered by the Employer in accordance with sub-clause (A) of Clause 59 shall include the cost (if any) of any disturbance to, or prolongation of both varied and unvaried work.
- (C) In the event of the Employer and the Contractor failing to reach agreement on any rate or price under the provisions of sub-clause (D) of this Clause, the Employer shall fix such rate or price as shall in his opinion be reasonable and notify the Contractor accordingly.
- (D) The Employer shall determine the value of a Variation as follows:
- (1) Any item of work omitted shall be valued at the rate or price set out in the Contract for such work or, in the absence of such a rate or price, at a rate or price agreed between the Employer and the Contractor.
- (2) Any work carried out which is the same as or similar in character to and executed under the same or similar conditions and circumstances to any item of work priced in the Contract shall be valued at the rate or price set out in the Contract for such item of work.
- (3) Any work carried out which is not the same as or similar in character to or is not executed under the same or similar conditions or circumstances to any item of work priced in the Contract shall be valued at a rate or price based on the rates or prices in the Contract so far as may be reasonable, failing which, at a rate or price agreed between the Employer and the Contractor.

Provided that if the nature or extent of any Variation ordered in accordance with sub-clause (A) of Clause 59 relative to the nature or extent of the Works or any part thereof shall be such that in the opinion of the Employer any rate or price contained in the Contract for any item of work is by reason of such Variation rendered unreasonable or inapplicable then a new rate or price shall be agreed between the Employer and the Contractor for that item, using the Contract rates or prices as the basis for determination and taking into account the provisions of sub-clause (B) of this Clause.

- (E) Any lump sum quotation submitted by the Contractor to the Employer in accordance with sub-clause (C) or (D) of Clause 59 shall indicate how the lump sum was calculated by showing separately full details of:
 - (1) the cost of complying with the order,
 - (2) the cost of preparing the lump sum quotation,
 - (3) the cost (if any) of any disturbance to or prolongation of varied and unvaried work as a consequence of complying with the order, and
 - (4) such other information as will enable the Employer to evaluate the lump sum quotation.

- (F) The Employer shall notify the Contractor not later than 14 days from the receipt of any such lump sum quotation (or such other time as may be agreed between the Employer and the Contractor) whether or not it has been accepted. If accepted, the amount specified in the lump sum quotation, or otherwise agreed between the Employer and the Contractor, shall be the full sum to which the Contractor is entitled for complying with that order.
- (G) In the event that a lump sum quotation is submitted in accordance with sub-clause (C) or (D) of Clause 59 and the lump sum quotation is not accepted by the Employer, then the work ordered under sub-clause (A) of Clause 59 shall be valued in accordance with sub-clause (E) of this Clause.
- (H) The Contractor shall supply the Employer with any further information reasonably requested by the Employer within 14 days of the request to enable him to value any Variation ordered under sub-clause (A) of Clause 59.
- (I) The Employer shall within 28 days of the receipt of the information requested under sub-clause (H) of this Clause notify the Contractor of his valuation.

61 Rights of Third Parties

Notwithstanding the Contracts (Rights of Third Parties) Ordinance (Chapter 623 of the Laws of Hong Kong), no one other than a party to this Contract will have any right to enforce any of the terms in this Contract.



General Conditions of Contract and Guidelines for Works or Services

A. General Conditions of Contract

- 1. "Contractor" means the person who enters into the contract with the Construction Industry Council or the person or service provider whose quotation has been accepted.
- 2. "Contract" means the Contract, purchase order or letter of acceptance herein including the contents of the Schedule and these general conditions.
- 3. The Works / Services and Variation
 - (a) The works to be undertaken or services to be performed under this Contract shall be as laid down in the Quotation and Special conditions (if any) and shall be carried out to the satisfaction of Construction Industry Council.
 - (b) The Contractor shall not extend the works / services beyond the requirements specified in the Schedule except as directed in writing by Construction Industry Council; but Construction Industry Council may, at any time during the Contract period by notice in writing direct the Contractor to alter, amend, omit, add to, or otherwise vary any of the works / services and/or the contract period, and the Contractor shall carry out such variations, and be bound by the same conditions, so far as are applicable, as though the said variations were stated in the Schedule.
 - (c) Where a variation has been made to this Contract the amount to be added to or deducted from the Contract price in accordance with that variation shall be determined in accordance with the discounted rates specified in the Schedule so far as the same may be applicable and where rates are not contained in the said Schedule, or are not applicable, such amount shall be such sum as is reasonable in the circumstances. In any circumstances, such amount should be subject to the approval of Construction Industry Council.

4. Assignment

The Contractor shall not, without the written consent of Construction Industry Council, assign or otherwise transfer any part of this Contract, and the performance of this Contract by the Contractor shall be deemed to be personal to him.

5. Quality of Works / Services

The works / services shall be as specified in the Schedule and shall fulfil all the conditions and terms of any drawings and specifications (if any) supplied to the Contractor.

6. Compliance with the laws of Hong Kong Special Administrative Region and Valid Licences

The Contractor has to comply with all laws of Hong Kong Special Administrative Region. The Contractor shall not employ illegal workers or any person who are forbidden by the laws of Hong Kong Special Administrative Region or not entitled for whatever reasons to undertake any employment in Hong Kong Special Administrative Region in the execution of this Contract. The Contractor should hold valid licences when performing relevant works if required by law. If there is any breach of this clause, Construction Industry Council may terminate this Contract and the Contractor is not entitled to claim any compensation. The Contractor shall be liable for all financial loss or expenses necessarily incurred by Construction Industry Council as a result of the termination of this Contract.

7. Inspection, Rejection and Acceptance

- The Works undertaken or Services performed shall be subject to inspection by Construction Industry Council who may at its own discretion terminate this Contract or withhold payment unless the works / services have been undertaken / performed in accordance with the terms and conditions of this Contract and to the satisfaction of Construction Industry Council. Upon breach of any essential terms and conditions of this Contract by the Contractor, including but not limited to failure to comply with the performance requirements in accordance with the Schedule, Construction Industry Council shall have the right to reject unsatisfactory performance of the Works / Services and suspend payment until the defects have been rectified by the Contractor to the satisfaction of Construction Industry Council. Construction Industry Council reserves the right to claim against the Contractor for all related financial loss or expenses necessarily incurred by Construction Industry Council.
- (b) Being notified in writing of the rejection of any works / services, the Contractor shall take immediate and necessary action to rectify such rejected Works / Services within reasonable time as agreed by Construction Industry Council.

- (c) If the Contractor shall fail to rectify such rejected works / services in accordance with item (b) above, Construction Industry Council may, without prejudice to any other rights and remedies available to Construction Industry Council, carry out and complete such works / services by its own resources or by other contractors. All costs and expenses whatsoever which may be incurred by Construction Industry Council thereof shall be recoverable in full from the Contractor forthwith.
- (d) The works undertaken or services performed in pursuance of this Contract shall not be deemed to have been accepted unless either:-
 - Construction Industry Council shall so certify; or
 - ii. The works / services are not rejected as being unsatisfactory within 21 working days after receiving the report of certification upon the execution of the work.

8. Payment for works / services

After the receipt of goods and provision of services or completion of works in accordance with the agreed terms and conditions and to the satisfaction of Construction Industry Council, Construction Industry Council will settle payment within 30 days after receiving and verifying the invoices.

- 9. Injury to Persons and Property and Indemnity
 - (a) The Contractor shall be liable for, and shall indemnify Construction Industry Council against, any expense, liability, loss, claim or proceedings whatsoever arising under any statute or at common law in respect of personal injury to or the death of any person whomsoever arising out of or in the course of or caused by the carrying out of the works under the Contract, save to the extent that the same may be due to any act or neglect of Construction Industry Council or of any person for whom Construction Industry Council is responsible.
 - (b) The Contractor shall be liable for, and shall indemnify Construction Industry Council against, any expense, liability, loss, claim or proceedings in respect of any injury or damage whatsoever to any property real or personal in so far as such injury or damage arises out of or in the course of or by reason of the carrying out of the works under the Contract, save to the extent that the same may be due to any act or neglect of Construction Industry Council or of any person for whom Construction Industry Council is responsible.
- 10. Employee's Compensation Insurance Policy ("EC policy")
 - (a) Without prejudice to the Contractor's obligations, liabilities and responsibilities under the Contract and his obligation to insure by law, the Contractor shall at his own expenses warrant to take out and maintain an EC policy covering against all liabilities arising from any death, accident or injury to any workmen or other persons in the employment of the Contractor and any sub-contractor of any tier and Construction Industry Council shall not be liable for any damages or compensation in respect thereof. Such EC policy shall be maintained during the Contract period and for the whole of the time that such workmen or other persons are employed on the works including the Maintenance Period or Defects Liability Period (if applicable).
 - (b) Before the commencement of works under the Contract, the Contractor shall, whenever required by Construction Industry Council, produce to Construction Industry Council a copy of the EC policy (include Endorsements W338, W348 and W204) which he is required to effect pursuant to item (a) above together with satisfactory proof of payment of the current premiums thereof.
 - (c) If the Contractor shall fail to effect and maintain the EC policy or if the Contractor shall fail to provide any evidence thereof which he is required to by item (b), Construction Industry Council may at its own discretion terminate the Contract.
 - (d) In the event of any of the Contractor's sub-contractors of any tier or employees or agents or the subcontractors' employees suffering any injury or death in the course of or arising out of this Contract and whether there be a claim for compensation or not, the Contractor shall within 7 working days give notice in writing of such injury or death to Construction Industry Council.
- 11. Contractors' All Risks Insurance Policy ("CAR")
 - (a) Without limiting the obligations, liabilities and responsibilities of the Contractor under the Contract, Construction Industry Council has effected, with insurers of Construction Industry Council's choice, for the benefit inter alia of Construction Industry Council, the Contractor and his sub-contractors of any tier and other direct specialist contractors a CAR in respect of inter alia:
 - Loss and damage to the works under the Contract;
 - Third party liability
 - Refer to <u>Section B</u> for an <u>insurance synopsis</u> and reference should be made thereto for its full terms and effect.
 - (b) The Contractor's All Risks / Third Party Liability Insurance only covers contract within the contract details as stated in the Insurance Synopsis of Contractors' All Risks/ Third Party Liability Insurance. Should the contract not within the contract details, contractor must arrange another Contractor's All Risks / Third Party Liability Insurance, joint name with Construction Industry Council, at contractor's own cost. Minimum coverage for third party liability is HK\$30,000,000.

- (c) The Contractor shall for himself and on behalf of all sub-contractors of any tier accept the CAR as if it has been effected by himself and shall with all due diligence observe and fulfil, and procure that all sub-contractors of any tier observe and fulfil, the terms, provisions and conditions contained therein.
- (d) The Contractor shall be deemed to have read and understood the terms, provisions, conditions, exclusions and excesses of the CAR. If, in the Contractor's opinion, the amounts and / or risks insured are insufficient to cover the Contractor's risks, duties, obligations and liabilities under the Contract, at common law or otherwise, the Contractor may effect such further insurance at his own expense as he considers necessary.
- (e) It is acknowledged and understood that the CAR is subject to excesses and exclusions. In the event of a claim under the CAR in respect of a matter for which the Contractor is responsible or liable under the Contract, the full amount of such excesses and exclusions shall be borne by the Contractor. In the event of any default by the Contractor in making good any damage to the works where required by the terms and conditions of the Contract, Construction Industry Council may deduct the applicable policy excess from any sums due or to become due to the Contractor under this Contract or recover the same as a debt due from the Contractor.
- (f) Save for any case in which the relevant loss or injury arises from any act or neglect of Construction Industry Council or any person for whom Construction Industry Council is responsible, all costs and incidental expenses incurred in relation to claims including the preparation and submission of all formal quantified claims under the CAR shall be borne by the Contractor.
- (g) The Contractor shall forward to Construction Industry Council's representative a copy of all notices and claims submitted by him or all sub-contractors of any tier pursuant to the conditions of the CAR within 24 hours of dispatch of such notice or claim. Upon a written request from Construction Industry Council, Construction Industry Council shall be entitled to take over the conduct of any claim submitted by the Contractor or all sub-contractors of any tier under the CAR, and in any such event the Contactor hereby appoints, and shall procure that all sub-contractors of any tier appoint, Construction Industry Council as his or their agent for that purpose.
- (h) All monies to be received under the CAR shall be paid to Construction Industry Council as loss payee. The Contractor and all sub-contractors of any tier hereby irrevocably authorize Construction Industry Council to give good discharge to the insurers for such monies.
- (i) Upon the occurrence of any loss or damage to the works under the Contract, the Contractor with due diligence shall restore works damaged, replace or repair any unfixed materials or goods which have been destroyed or injured, remove and dispose any of debris and proceed with the carrying out and completion of the works. All monies received under the CAR (less any amounts to cover professional fees) shall be paid to the Contractor by instalments under the Interim Payment Certificates or Final Payment Certificates issued by Construction Industry Council's representative. The Contractor shall not be entitled to any payment in respect of the restoration of work damaged, the replacement and repair of any unfixed materials or goods, and the removal and disposal of debris other than the monies received under the said CAR.

12. Bankruptcy or Receivership

Construction Industry Council may at any time by notice in writing summarily terminate the Contract without entitling the Contractor to compensation if the Contractor shall at any time become bankrupt, insolvent, or shall be placed in receivership or go into liquidation or receivership, or if a petition for liquidation, bankruptcy or receivership (whether voluntary or involuntary, save for the purpose of reconstruction or amalgamation) is filed against the Contractor, but without any prejudice to any right or action or remedy which shall have accrued or shall accrue thereafter to Construction Industry Council.

13. Corruption

Construction Industry Council prohibits any member of the staff from soliciting or accepting any advantage. Without the approval of Construction Industry Council, it is an offense under the Prevention of Bribery Ordinance to offer or give any gift, loan, fee, reward, commission, office, employment, contract, other services of favour, discount to any staff of Construction Industry Council. Construction Industry Council will terminate the Contract without prior notice and hold the Contractor liable for any loss or damage so caused to Construction Industry Council.

14. Personal Data Submitted by Contractor

All personal data submitted by the Contractor will be used by Construction Industry Council for the purpose of this Contract only. Under the provisions of the Personal Data (Privacy) Ordinance, the Contractor has the right to request access to or correction of personal data. Written requests should be addressed to Construction Industry Council. Construction Industry Council may be unable to process and consider incomplete information submitted.

15. Working Hours

Unless it is specifically allowed in other part of the Contract, the works under this Contract shall be undertaken during normal working hours as specified by Construction Industry Council.

16. Valid Certificates of Intermediate Trade Testing or higher qualifications

Except for carrying out general cleaning, delivering or sweeping tasks or having special approval of Construction Industry Council, all workers employed by the Contractor to work under this Contract have to hold valid certificates of intermediate trade testing (or higher qualifications) relevant to the trades under which they are working. A list of such workers with their valid and relevant qualifications has to be submitted to Construction Industry Council before the commencement of works.

17. Temporary Work Permit

When carrying out the works under the Contract, all workers have to wear the temporary work permit issued by Construction Industry Council. If the temporary work permit is lost, the Contractor or worker has to report to Construction Industry Council and request a re-issue at \$30.

18. Parking

If the Contractor finds it necessary to park their motor vehicles within the premises of Construction Industry Council, application has to be lodged in advance. If the application is approved, the parking permit issued by Construction Industry Council and the contact telephone number of the driver has to be displayed on the motor vehicles.

19. Refuse Removal

All refuse has to be delivered to the refuse collection warehouse specified by Construction Industry Council at the end of each working day or on any dates specified by Construction Industry Council.

20. Rights of Third Parties

Notwithstanding the Contracts (Rights of Third Parties) Ordinance (Chapter 623 of the Laws of Hong Kong), no one other than a party to this Contract will have any right to enforce any of the terms in this Contract.

B. Insurance Synopsis of Contractors' All Risks / Third Party Liability Insurance

1. Summary

Type

Contractors' All Risks - Open Cover

Form

To follow the terms, limits and conditions of Asia Insurance Co Ltd Contractors'

All Risks policy wordings as agreed.

Insured

Construction Industry Council as principal &/or all Main Contractors and its

sub-contractors of every tier.

Period of Insurance

From 00:00 1st January 2017 to 24:00 31st December 2017 Local Hong Kong

Time (both dates inclusive).

Contract Details

: Scope and Nature

Renovation / Restoration / Maintenance / Alteration / Repair Work and/or Installation Work of Building Services including building maintenance work and/or builder's work but excluding construction/erection/demolition of building structure (i.e. structural walls, columns, beams and slabs of a building) and/or

Installation/ Maintenance/ Repair Work of Building Services equipment; office equipment; training equipment; and trade test equipment

carried out at the premises of the Insured which are covered under the Property Policy but definitely excluding any construction sites.

Contract Value of Each Contract

Contract Value at inception must not exceed HK\$3,000,000.

Period of Insurance for Each Contract

- (1) Insured Contract other than Maintenance Contract Work
- (a) Contract Period

Follow the original Contract Period of each contract work provided that: -

- the duration of the Contract Period shall not exceed 120 days;
- the Insured Contract must commence within the Period of Insurance specified in the Schedule

(b) Maintenance Period

Follow the original Maintenance Period of each contract work provided that the duration of the Maintenance Period shall not exceed 12 months immediately after the Original Contract Period.

(2) Maintenance Contract Work only

The Period of Insurance in respect of the Maintenance Work shall follow the original Contract Period of each Maintenance Work provided that:-

- the duration of the Maintenance Work shall not exceed 12 months;
- the Insured Contract must commence within the Period of Insurance specified in the Schedule.

Coverage

: Section I - Material Damage

To indemnify the Insured in respect of loss of or damage to the Insured Property whilst at the site during the Period of Insurance arising from any cause whatsoever not excluded by the original policy.

Insured Property - Item 1

The permanent and temporary works constructed erected or in the course of construction or erection in performance of the contract and all other property for which the insured contractors are responsible under the contract whilst on the site and subject to its value being included in the sum insured however excluding constructional plant and temporary buildings.

Insured Property - Item 2

Removal of debris: costs and expenses necessarily incurred by the Insured with the consent of the Insurers in dismantling and removing debris of the portion or portions of the property insured under item (1) destroyed or damaged by any peril hereby insured against.

Sum Insured: HK\$100,000 any one contract

: Section II - Liability to Third Parties

To indemnify the Insured in respect of all sums which the Insured shall become legally liable for:

- i) Accident death bodily injury illness or disease suffered by any person
- ii) Accidental loss or damage to physical property arising out of the performance of the contract and in addition the insurers shall be liable for
- iii) All costs and expenses of litigation recovered by any claimant against the insured
- iv) All costs and expenses of litigation incurred by the insured with written consent of the insurers in resisting any claim

Limit of Indemnity: HK\$30,000,000 any one accident and unlimited for the period of insurance (Cost inclusive)

Geographical Area: Hong Kong SAR and Jurisdiction

Excess

: Section I - Material Damage

	For contract with	For contract with	For contract with
	value of	value exceeding	value exceeding
	HK\$500,000 or	HK\$500,000 upto	HK\$1,500,000 upto
	<u>below</u>	HK1,500,000	HK\$3,000,000
	HK\$	HK\$	HK\$
Act of God/Fire/Theft:	20,000	25,000	35,000
Others:	20,000	25,000	35,000
Temporary Works:	20,000 min or 50%	25,000 min or 50%	35,000 min or 50% of
	of loss (*)	of loss (*)	loss (*)
Water Damage to	20,000 min or 20%	25,000 min or 20%	35,000 min or 20% of
Work:	of loss (*)	of loss (*)	loss (*)

Section II - Liability to Third Party

Section II – Liability to Third Party				
		HK\$		
Third Party Property Damage	:	50,000 min or 10% of loss (*)		
Vibration	:	50,000 min or 20% of loss (*)		
Underground Services	:	50,000 min or 20% of loss (*)		
Oil-Filled/Fibre-Optic Cable	:	50,000 min or 40% of loss (*)		
Principal Property	:	50,000 min or 20% of loss (*)		
Water Damage to Third Party Property	:	50,000 min or 20% of loss (*)		
Third Party Bodily Injury	:	50,000		

(*) - whichever is the greater

Conditions

: 1. Revised Cross Liability Clause/ As per Asia's standard Contractors' All Risk Policy Jacket

(Inter alia)

- 2. B1 Safety Precaution Clause amended to delete the 24 hours watchman requirement.
- 3. B2 Special Conditions for Underground Services Clause
- 4. A9 Including the risks of strikes, riots and civil commotion
- 5. A6 Extra charges for overtime, night work, work on public holiday and express fright (10% of adjusted loss)
- 6. A1 Extended to cover liability to third party property damage caused by vibration, removal or weakening of support (Limit: HK\$30,000,000 any one accident and in aggregate during any one period of insurance)
- 7. A7 Extended to cover employer's property under the care, custody or control of the insured contractors under Section II (Limit: HK\$30,000,000 any one period in aggregate)

Page 6 of 8

- 8. Yearly Declaration (CIC has to submit the actual annual turnover with details upon policy expiry)
- 9. Burning and Welding Clause
- 10. 60 Days Cancellation Clause, i.e. the policy may be cancelled by the Insured at any time subject to short-term premium but 60 days' advance notice by the Insurer.
- 11. Extended Maintenance Period Cover
- 12. 60 Days Non-Removal Notice by Insurer
- 13. Claim Control Clause
- 14. 72 hours Clause
- 15. HK Jurisdiction Clause
- 16. Run Off Liability Clause
- 17. Revised Arbitration Clause

Other terms and conditions as per policy wording.

Principal

Policy Exclusions (Inter alia)

- : 1. Cyber Exclusion
 - 2. Total Asbestos Exclusion
 - 3. Pollution Exclusion Clause
 - 4. War & Terrorism Exclusion
- 5. Date Related Performance & Functionality Clause (A) and (B)
- 6. Professional Liability Exclusion
- 7. Electromagnetic Radiation Exclusion
- 8. Products Liability Exclusion
- 9. Self-Employed Person and Sole Proprietors Exclusion
- 10. Sanction Clause

Other exclusions as per original policy.

Insurer

: Asia Insurance Company Limited – 100%

Policy No.

: ABK/ECA/14-60019992

Applicable

: Hong Kong SAR

Jurisdiction and/or

Law Practice

2. Contractors' Own Insurance Responsibilities

- (a) The Contractor's All Risks / Third Party Liability Insurance does not cover the liability arising out of or in connection with the following:
 - i. motor vehicles and other Statutory Insurances.
 - ii. employees of the Insured Parties, sole proprietors and self-employed persons acting as sub-contractors, including labour masters and persons supplied by them, persons employed by labour only sub-contractors, self-employed persons, drivers and / or operators of plant hired to the Insured, student gaining work experience, and any other persons hired or borrowed by contractors.

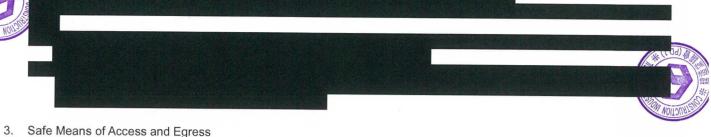
"Contractors allow such persons to enter site at their own risk".

- iii. deductibles of the Policy.
- (b) The Contractor's All Risks / Third Party Liability Insurance does not cover the physical loss of or damage to construction plant tools and equipment owned or leased by the contractors or for which the contractors may be responsible.
- (c) Contractors and Subcontractors are required to arrange Employees' Compensation Insurance complying with the Employees' Compensation Ordinance (Cap 282) in respect of their employees. Such insurance is to be endorsed to cover the Construction Industry Council as an Insured Party.
- (d) The Third Party Liability Insurance cover is HK\$30,000,000. Construction Industry Council advises contractors to review its adequacy in relation to their risks and liability under the contract with the Construction Industry Council and to purchase additional limit, if required, at their own costs.
- (e) The Contractor's All Risks / Third Party Liability Insurance only covers contract within the contract details as stated in the Insurance Synopsis of Contractors' All Risks/ Third Party Liability Insurance. Should the contract not within the contract details, contractor must arrange another Contractor's All Risks / Third Party Liability Insurance, joint name with Construction Industry Council, at contractor's own cost. Minimum coverage for third party liability is HK\$30,000,000.

C. Safety Guidelines

1. General Duties of Contractor and Persons Employed

Pursuant to the Factories and Industrial Undertakings Ordinance (Cap. 59) and Occupational Safety and Health Ordinance (Cap.509), whilst executing the works under the Contract, it shall be the duty of the Contractor to ensure the health and safety at work of all persons employed by him, and it shall be the duty of every person employed to take care for the safety of himself and of other persons who may be affected by his acts or omissions at work..



Safe Means of Access and Egress

The Contractor must maintain the workplace in a safe condition and ensure that every access to and egress from the workplace is safe. The Contractor shall also ensure that all means of escape from the workplace are kept free from obstruction.

Personal Protective Equipment

The Contractor must supervise and ensure all his sub-contractors and employees wear appropriate personal protective equipment, e.g. protective clothing, safety helmet, safety shoes, harness, fall arresting system, eye-protector, ear protector, and mask, etc., as Construction Industry Council may consider necessary or appropriate or as legally required. Any such personal protective equipment must be provided, maintained and replaced as necessary by the Contractor at his own expenses.

- No Smoking and Fire Prevention Measures Smoking is not permitted in the workplace. If the works involve the use of naked flame, the Contractor must implement sufficient fire prevention measures.
- Working at Height The Contractor shall take adequate steps to prevent any person from falling from a height of 2 metres or more.

D. Consequences of Breach

If the Contractor, his sub-contractors of all tiers or employees do not comply with the relevant laws of Hong Kong Special Administrative Region and the terms and conditions of this Guidelines, or if the performance of works undertaken by the Contractor causes any damages or losses to Construction Industry Council, Construction Industry Council may at its discretion terminate this Contract and the operations of the Contractor until any non-compliance or the unfavourable operation is rectified. The Contractor shall be liable to any loss or damage so caused to Construction Industry Council. Construction Industry Council shall be entitled to recover in full from the Contractor forthwith. The Contractor shall also lose his right from submitting quotations or tenders to Construction Industry Council in the future.

Additional Information	The Contractor's Declaration	
P.R. No.:	If the quotation is accepted, this document together with the tender or quotation will form part of the Contract and I/we hereby agree to comply with them.	
Period of Validity:		
Location of Works / Services:	Name of Contractor:	
No. of pages for this document: 8	Signature with Company Chop:	
This document was issued on:	Date:	



承辦商安全守則

The following requirements include general safety requirements to be complied with by contractors and are by no means exhaustive. In general, contractors are to take all reasonable steps to ensure the safety and health of their employees and their subordinate workers (including their subordinate contractors). All site work activities of contractors shall be in full compliance with all relevant legislation of the Hong Kong Special Administrative Region including:

- Factories and Industrial Undertakings Ordinance (Cap 59) and its subsidiary legislation / regulations,
- Occupational Safety And Health Ordinance (Cap 509) and its subsidiary legislation / regulations,
- Dangerous Goods Ordinance (Cap 295) and its subsidiary legislation / regulations,
- Electricity Ordinance (Cap 406) and its subsidiary legislation / regulations,
- Builders' Lifts and Tower Working Platforms (Safety) Ordinance (Cap 470) and its subsidiary legislation / regulations,
- Boilers and Pressure Vessels Ordinance (Cap 56) and its subsidiary legislation / regulations.
- Construction Workers Registration Ordinance (Cap 583) and its subsidiary legislation / regulations,
- Employees' Compensation Ordinance (Cap 282) and its subsidiary legislation / regulations.

Other than legislation, contractors also must comply with relevant codes of practice or any other guidelines issued by government bodies or organization including the Labour Department, Fire Services Department, Electrical and Mechanical Services Department, Highways Department, Buildings Department, Construction Industry Council and Occupational Safety and Health Council.

Construction Industry Council (CIC) reserves the right to charge HKD 500.00 for each violation of any of CIC's internal safety requirements listed below or each violation of any relevant legislation, code of practice or guidelines.

In case of any dispute, CIC reserves all rights of final interpretation of the rules. The safety requirements to be complied by contractors include:

CONSTRUCTION INDUSTRY COUNCIL 建造業議會

Contractor's Safety Requirements

承辦商安全守則

General Rules

- 1) Contractors must arrange a representative(s) to attend a safety briefing before work commencement. Failure to attend briefings may result in work commencement not being permitted. Attendance at a briefing will be valid for 6 months; any contractor who had attended a briefing within the 6 months prior to the work commencement day will be exempted from attending a further briefing.
- 2) Before work commencement, contractor must obtain an Attendance Proof Safety Briefing. Work will be suspended immediately if an Attendance Proof Safety Briefing has not been obtained.
- 3) The contractor's representative must be a direct employee of the awarded contractor.
- 4) The contractor's representative has the duty to clearly deliver to the employer all messages from safety briefings or any safety meetings.
- 5) Contractors have the obligation to send a representative(s) to attend any safety meeting held by CIC.
- 6) The contractor must ensure all of CIC's safety requirements are delivered and clearly explained to all personnel in the working team (including direct employees and subordinate contractors) before working within CIC's premises.
- 7) The delivery of CIC's safety requirements mentioned in clause 6) above must be documented in writing and a copy must be maintained within the work area for inspection.
- 8) In case of any inspection or visit conducted by government officials, contractors must notify the site's responsible person, CIC's department responsible for the project and CIC's Corporate Safety Team immediately.
- Ontractors are required to prepare a method statement document ("Method Statement") and a risk assessment document ("Risk Assessment") before work commencement. The Method Statement is to be a comprehensive and step-wise statement of the work sequence and method, with the help of drawings, layout plan etc. to illustrate in detail how the work will be conducted. The Risk Assessment is to cover all foreseeable risks resulting from each step of the work sequence. Adequate and suitable rectifying measures should be stated in the Risk Assessment and implemented. The Risk Assessment should prepared or reviewed by the contractor's safety officer.
- 10) Contractors should submit the statutory appointment notice (Forms 4 & 5 in Factories and Industrial Undertakings (Safety Officers and Safety Supervisors) Regulation (Cap 59Z)) of any safety supervisors or safety officers to CIC for record.

CONSTRUCTION INDUSTRY COUNCIL 建造業議會

Contractor's Safety Requirements

承辦商安全守則

- Occurrence of any kind of imminent danger or unsafe act may result in suspension of work on site until adequate and appropriate remedial action to the satisfaction of CIC is taken.
- 12) All contractors' personnel must not smoke within CIC premises.
- All contractors' personnel must not work under the influence of alcohol or drugs. Noncompliant individuals may be immediately removed from the site.
- 14) Work areas and material storage areas should be fully enclosed and the following signage should be displayed at the entrance of each individual area:
 - i. "No unauthorized entry" or similar,
 - ii. "No Entry Without Wearing Safety Helmet or Safety Shoes" or similar,
 - iii. Contractor Work Commencement Permit
 - iv. Pedestrian diversion instruction (if original access was affected),
 - v. List of Competent Persons (if applicable).
- 15) Whip checks should be installed on the connections of compressed air hoses.
- 16) CIC reserves the right to request any contractor's personnel to be suspended from working within CIC premises for repeated violations of safety requirements.
- 17) If the construction area is adjacent to any public area, the affected area must be fully enclosed in order to ensure no members of the public would be able to access the site area. For example, enclosing the work area with securely erected boards.
- 18) If the construction area is directly above any public area, the contractor is required to fence off the area below or any area that may be vulnerable to any falling objects from the construction project. Sufficient, proper warning notice must be displayed.

Personal Protective Equipment

- 19) Contractors have the obligation to ensure all workers, including all their subordinate contractor workers, have been provided with suitable and adequate personal protective equipment.
- 20) Contractors have the obligation to ensure all workers, including all their subordinate contractor workers, use personal protective equipment properly.
- 21) Contractors have the obligation to ensure personal protective equipment is in safe working condition.
- All personnel within the works area must wear a safety helmet (which should be in compliance with the "Guidance Notes on the Selection, Use and Maintenance of Safety Helmets" issued by the Labour Department) and safety shoes with a steel toe cap and steel midsole (which should be in compliance with BS EN ISO 20345 or any other equivalent standards).

Page 3 of 10

GDL | 004 | A | 20170811 |



承辦商安全守則

- 23) All safety helmets used should be equipped with a Y-type chin strap.
- 24) Contractors should maintain sufficient amount of safety helmets onsite for visitors' use.
- 25) All full body harnesses used must be equipped with double lanyards and comply with the "Guidance Notes on Classification and Use of Safety Belts and their Anchorage Systems" issued by the Labour Department.

Safety Training

- 26) Copies of relevant certificates/safety training attendance records of all site personnel should be maintained onsite for inspection upon CIC's request. The Internal Safety Induction Training should be conducted by contractors' safety personnel.
- 27) All personnel engaged in site activities must possess a valid Mandatory Basic Safety Training Course (Construction Work) card and a Construction Worker Registration Card, and have attended Internal Safety Induction Training conducted by the contractor. Non-compliant individuals may be immediately removed from the site.

Safety Inspection

- 28) If a safety officer or safety supervisor must be employed for the project, all completed Forms 2A and Forms 3A under the Factories and Industrial Undertakings (Safety Officers and Safety Supervisors) Regulations (Cap 59Z) should be submitted to CIC for record.
- 29) Contractors' management staff should conduct regular safety inspections. The inspections should be documented and submitted to CIC Corporate Safety Team for record.
- 30) All recommendations for improvement in the Safety Inspection report issued by CIC should be implemented by contractors within 3 working days and evidence of improvement should be submitted to CIC.
- 31) The reoccurrence of any unsafe items from a CIC Safety Inspection report may result in suspension of work until recommendations for improvement have been implemented.

Temporary Structures

32) Drawings and designs of all metal scaffolds, bamboo scaffolds or any temporary structures for support use or load bearing purposes must be checked by an appropriate registered engineer prior to erection, and the maximum safe load of the scaffold or structure must be determined. The registered engineer should clearly indicate the permitted load of the scaffold or structure in the drawings. Approved / endorsed drawings should be submitted to CIC's Corporate Safety Team for record.



承辦商安全守則

- 33) All bamboo scaffolds that will be constructed with more than 15 meters in height should be designed and endorsed by an appropriate registered engineer, and this document should be submitted to CIC's Corporate Safety Team for record.
- 34) All structures or scaffolds mentioned in clauses 32) and 33) must be inspected by an appropriate registered engineer after construction. This inspection should be targeted at verifying whether the aforesaid structure or scaffold is in compliance with the design. The verification should be in written form with the registered engineer's endorsement and should be submitted to CIC for record. Any works associated with the structures or scaffolds should not be commenced before the verification is made.

Emergency Preparedness

- 35) Contractors should provide one primary emergency contact number and one secondary emergency contact number to the CIC's Corporate Safety Team, and these contact numbers should be reachable 24 hours.
- 36) If there is any accident, incident, near miss, occupational disease or dangerous occurrence (as defined in Schedule 1 of the Occupational Safety and Health Regulation (Cap 509)) contractors must notify the premises occupier, CIC's Corporate Safety Team and CIC's department responsible for the project immediately.
- 37) CIC's contractors have the obligation to conduct necessary investigations of any accident, incident or near miss caused by their work activities or their sub-contractors' work activities. The investigation should be conducted within 24 hours after the occurrence of the accident. After the investigation, a detailed report should be composed to illustrate the cause(s) and suggest recommendations to avoid reoccurrence.
- 38) Reports of the investigations mentioned in clause 37) should be submitted to CIC within 3 working days after the occurrence of the incident.
- 39) CIC's contractors have the obligation to suggest and implement necessary improvement measures to prevent the reoccurrence of accidents, incidents or near misses.
- 40) In every work location, at least one first aid box should be maintained. If a contractor is engaged at more than one work location, and the work locations are physically separated or not readily accessible, a first aid box is to be maintained at each work location.
- 41) The type and quantity of first aid items contained in the first aid box should comply with Schedule 2 of the Construction Sites (Safety) Regulations (Cap 59I).
- 42) Contractors should arrange a person / team of persons to conduct regular checks on the first aid box to ensure the proper condition and quantity of first aid items. If first aider(s) is/are deployed for the construction project, the first aider should be included in the aforesaid team.



承辦商安全守則

- 43) Adequate and proper firefighting equipment should be ready in the site area. At least one fire extinguisher of proper type should be maintained at each electrical distribution box and hot work area.
- 44) Clearly visible signage should be displayed to indicate the location of firefighting equipment and first aid equipment.
- 45) Contractors must not obstruct any emergency escape route or make any emergency equipment defective. If this is unavoidable, the obstruction is to be pre-approved by CIC and alternative measure(s) provided during temporary unavailability of the emergency escape route or equipment.

Competent Person

- 46) All of the competent persons deployed in the works area shall be appropriately qualified as specified in relevant legislation and codes of practice, including but not limited to the following:
 - i. Metal scaffold competent person
 - ii. Bamboo scaffold competent person
 - iii. Metal scaffolder
 - iv. Bamboo scaffolder
 - v. Gas Welder
 - vi. Safety Supervisor
 - vii. Electrical worker
 - viii. Abrasive wheel mounting competent person
 - ix. Crane Operator
 - x. Lifting Appliance Inspector
 - xi. Loadshifting Machinery operator
 - xii. Confined Space Competent Person
 - xiii. Confined Space Certified Worker
 - xiv. First Aider
 - xv. Suspended working platform operator
 - xvi. Cartridge-operated fixing tools operator
 - xvii. Excavation Inspector
 - xviii. Power-operated elevating work platform operator
 - xix. Electric Arc Welder
 - xx. Rigger
 - xxi. Signaler

GDL 004 A 20170811

Page 6 of 10



承辦商安全守則

47) For competent persons of the trades specified below, these additional qualifications shall be met:

Trade	Qualification	
Cartridge-operated fixing tools operator	Attended operational training organized by the tool's supplier	
Excavation Inspector	Holder of Bachelor's degree in Civil Engineering or other relevant discipline	
Power-operated elevating work platform operator	Attended operational training organized by the machine's supplier	
Electric Arc Welder	Holder of General Welder intermediate trade test certificate or above	
Rigger and Signaler	Holder of Safety Training Course for Construction Workers of Specified Trade (Construction Material Rigger) Certificate or other equivalent	

- 48) A list of the competent persons (if any) mentioned in clauses 46) and 47) above, should be displayed at the entrance of the site.
- 49) In case work activity is not conducted by suitable competent persons, CIC reserves the right to temporarily suspend that related work activity.

Working at Height

- 50) All scaffolding works must be supervised by a relevant competent person and performed by trained workers as per the requirement stated in the Metal and Bamboo Scaffold Code of Practice issued by the Labour Department.
- 51) Contractors must provide proper fall protection to prevent any person falling from height.

 Contractors also have the obligation to ensure the fall protection is being used properly.
- 52) Contractors should take necessary steps to avoid any objects falling from height, such as implementing hand-tag lines for tools, installing toe boards or mesh etc.
- All floor edges must be protected with rigid and secure guardrails and toe-boards at all times. The aforesaid guardrails and toe-boards are to comply with the requirements stated in Schedule 3 of the Construction Sites (Safety) Regulations (Cap 59I).
- 54) All floor openings must be covered and secured with sound and solid materials at all times. Clearly visible notices should be placed to indicate floor openings.
- Proper working platforms must be provided for work carried out at 2 meters or above. Non-compliance with such will be considered as an unsafe act.
- 56) Mini scaffolds, stepladder platforms, hop-up platforms or step stools are to be provided for working at heights lower than 2 meters. The equipment mentioned must be in compliance with the requirements stated in clause 58).



承辦商安全守則

- 57) Access ladders (Single sided, non-self-standing ladders), and A-type ladders (two-sided, self-standing ladders) are prohibited for use as working platforms.
- 58) Any mini scaffold, stepladder platform, hop-up platform or step stool must comply with the following standards and be free from any defects:

Equipment Type	Standard /Requirement
Mini scaffold	EN131-7 or PAS250 or any other equivalent
Stepladder platform	EN131 or ANSI A14 or AS/NZS 1892 or any other
Hop-up platform	EN131-7 or any other equivalent international standard, and
	may only be used when a guardrail is equipped
	properly
Steps stools	EN14183 or other equivalent international standard equivalent international standard

Health Hazard Control

- Noise assessments should be conducted as per the requirements stated in the Factories & Industrial Undertakings (Noise at Work) Regulation (Cap 59T) and relevant codes of practice. Relevant documents such as results of noise assessments and evidence of improvement measure(s) implemented should be submitted to CIC's Corporate Safety Team for record.
- Manual handling assessments should be conducted as per the requirement stated in the Occupational Safety & Health Regulation (Cap 509A) and relevant codes of practice. Relevant documents such as results of manual handling assessments and evidence of improvement measure(s) implemented should be submitted to CIC's Corporate Safety Team for record.
- 61) The quantities of any dangerous goods stored within the works area should not exceed the exemption quantities stated in Fire Protection Notice No. 4 published by the Fire Services Department, otherwise, a dangerous goods store must be set up and a licence applied for. CIC's Corporate Safety Team is to be informed beforehand.
- 62) Chemical hazard assessments are to be conducted for all chemicals on the construction site. The storage, usage of chemicals, the usage of personal protective equipment etc. are to follow the results of the assessment.
- 63) The proper prescribed form of chemical label is to be clearly displayed on chemical containers.
- 64) Contractors should conduct heat stress assessments and arrange mitigation measures accordingly whenever the work condition may lead to their employees suffering heat stroke, such as prolonged outdoor work during the summer season or exhausting work in confined spaces.



承辦商安全守則

65) Contractors should provide sufficient drinking water to the employees.

Electrical Works

- 66) For any installation or excavation work required to be conducted on existing walls or structures, or the ground, active cable detection is to be conducted and the alignment and depth of cables are to be conveyed to the relevant personnel involved before the start of work. The attendance record and cable detection survey report should be submitted to CIC's Corporate Safety Team for record.
- 67) Only registered electrical workers should conduct electrical installation work. A lock and tag system is to be implemented for any installation work in connection to an existing electricity power supply.
- 68) All electrical tools are to be checked by a registered electrical worker prior to use.
- 69) All mobile electricity generators are to be properly earthed before use.
- 70) When working outdoors, waterproof plugs should be used.

Lifting Operations

- 71) All lifting appliances and lifting gear used are to comply with the requirements stated in the Factories and Industrial Undertakings (Lifting Appliance and Lifting Gear) Regulations (Cap 59J) and a list of all the lifting appliances and lifting gear used by contractors should be sent to CIC for record. The certificates of the aforesaid equipment should be always ready onsite during the works period for checking.
- 72) Contractors should check the condition of lifting gear before commencement of each lifting operation.
- 73) All rigging and signaling should be conducted by a competent person. Walkie-talkies with a secured channel or other similar communication channel should be provided to the signaller and the crane operator.
- 74) Contractors should take all necessary action to ensure lifted loads are balanced, secure and will not cause any object to fall.
- 75) Lifted objects should be fitted with 2 tag lines of sufficient length.
- 76) Contractors are to take all necessary action to ensure all lifting appliances, cranes and lifting gear are free from any defects.
- 77) Overloading of any lifting appliances or cranes is strictly prohibited. The occurrence of overloading will be considered as an unsafe act.
- 78) All crane outriggers must be fully extended before conducting any lifting operations.
- 79) All cranes must be seated on firm and even ground.



Contractor's Safety Requirements

承辦商安全守則

- 80) All lifting zones must be fully enclosed and contractors should take all necessary action to ensure that no one is under any lifted load.
- 81) Every 3 months, contractors should conduct detailed checking of the certificates and physical condition of all lifting gear, and use the below color coding to indicate usable lifting gear:

Months/ Condition	Color
Jan to Mar	Blue
Apr to Jun	Yellow
Jul to Sep	Green
Oct to Dec	Orange
Substandard condition	Red
Invalid certificate	White

Hot Work

- 82) Contractors are to take necessary action to contain sparks generated from hot work.
- 83) Contractors should deploy a watchman in the area affected by sparks generated from hot work.
- 84) All flammable substances, materials or chemicals must be removed before conducting hot work
- 85) All compressed air cylinders such as oxygen and acetylene should always be kept upright and secured with chains.
- 86) Proper handling tools, such as trolleys, should be used during the transport of any compressed air cylinders.
- 87) Contractors are to ensure flashback arrestors, non-return valves and springs are properly fitted to flame cutting sets before use.
- 88) Pre-use checking are to be conducted by a competent person to ensure equipment used for hot work is free from any defects.
- 89) No electric-arc welding is permitted in outdoor area when it is raining.
- 90) Contractors are to ensure all work pieces are completely cooled down before leaving the work premises.

GDL 004 A 20170811



Ref. No.:	
檔案編號:	

Application Form for Inclusion in the CIC Vendor List

建造業議會承辦商/供應商登記申請書

This form should be completed in FULL BLOCK LETTERS and returned to:

Procurement Department

香港九龍觀塘駿業街56號

Construction Industry Council

中海日升中心38樓

38/F, COS Centre, 56 Tsun Yip Street

建造業議會

Kwun Tong, Kowloon, Hong Kong

採購部

請詳細填寫本申請書並交回:

2100 9000 2100 9439 Tel. No.: Fax. No.: vendor@cic.hk E-mail:

電話號碼: 2100 9000

圖文傳真號碼: 2100 9439 電子郵件: vendor@cic.hk

Enquiries concerning the personal data collected by means of this form, including the making of access and corrections, should be addressed to the above

Department.

如查詢此表格內的資料,包括查閱途徑及修訂資料,請與上述部門聯絡。

PART I - DETAILS OF THE COMPANY 第一部 - 公司資料

(i)	Company Name: (English) (Company r	name should correspond with that registered under the Business Registra	ration Ordinance (Cap 310)]
	公司名稱: (中文)【公司名稱須勢	與商業登記條例(第310章)內所登記的名稱相同】	
(ii)	Company Address : (English)		
	公司地址: (中文)		
(iii)	E-mail 電子郵件:	(iv) Website	網址:
(v)	Tel. No. 電話號碼:		圖文傳真號碼:
	otherwise.	, all future CIC notifications will be dispatched by means 要求,所有議會通訊將以電郵傳遞。	s of email, unless specifically requested in writing to the CIC
	PART II	- ORGANISATIONS AND STAFF 第二語	部 - 公司組織及職員資料
(i)	A partnership (unincorporated) 合夥(A sole proprietorship (unincorporated		
(ii) *	Members of organisation 公司成員 Directors / Proprietors / Partners 董事 / 東主 / 合夥人	: English Name 英文姓名	Chinese Name 中文姓名
	* Delete where inappropriate 將不適用者刪去		



Ref. No.:	
當案編號:	

Application Form for Inclusion in the CIC Vendor List

(iii)	Person(s) to contact on mat 獲授權回答有關投標 / 合			ts:		
	Name(s) 姓名	Off	ficial Capacity 職位		Tel. No. 電話號碼	Mobile No. 流動電話號碼
(1)					_	
(2)	<u> </u>					
(3)		_				
(iv)	Please confirm whether you Scheme (SRS). 請貴公司確認是否在分包		-		r under the CIC's Subcontractor Reg	gistration
	□ Yes,SRS Numl 是,分包商註冊		₽: :		□ No 不是	
			PART III -	BUSIN	ESS TYPE 第三部 - 業務	性質
(i)	Please tick ② as appro Business Type 業務性質	type and			所供應的服務及貨品 <i>請選擇 貴公司所屬的業務性質。</i>	及相應的覆蓋範圍
			f Services 服務行業		A content () 提表生 流山	
	類別一 - 供應商		Construction Materials	☐ 1.1 ☐ 1.2	Accelerator (催乾劑) Acrylic Paint (亞加力漆)	
			(建築材料)	1.3	Air-conditioning & Ventilation	Accessory (空調及通風配件)
				1.4	Adhesive / Sealant (膠漿 / 封邊	膠)
				☐ 1.5	Aggregates (石仔)	
				☐ 1.6	Air-conditioning & Ventilation	(空調及通風)
				1 .7	Aluminium Bar / Hollow (鋁條	
				1.8	Aluminium Foamwork Accessor	
				1.9	Aluminium Foamwork (鋁模板))
				☐ 1.10 ☐ 1.11	• " " " "	
				_	Anti-ant Paint (抗蟻油漆)	
				_	S Asphalt (瀝青)	
				☐ 1.14		記件)
				1.15	Bar-bending & Fixing (鋼筋屈打	七)
				1.16	Bronze / Copper / Brass Pipe (
				1.17	Bearing (啤令)	
				1.18		
				1.19	• • • • • • • • • • • • • • • • • • • •	
				1.20		
				1.21	••	
				☐ 1.22 ☐ 1.23		
				☐ 1.23 ☐ 1.24		- J. V.
				1.25		
				1.26		電線配件及線槽)
				1.27		
				1.28	Canvas Goods (帆布及布帳製品	급)
				1.29	Ceiling (天花)	



Ref. No.:		
档 家编號·		
1田木3冊3元・		

Application Form for Inclusion in the CIC Vendor List

1.30	Cement (水池)
1.31	Cement Paint (雪花英泥)
1.32	Centre Punch (中心沖/賓子)
1.33	Clear Lacquer (透明漆)
1.34	Clay Sand (黃花沙)
☐ 1.35	Clear Varnish (透明清漆)
☐ 1.36	Concrete Blocks (混凝土磚)
1.37	Concrete (混凝土)
_	
1.38	Concrete Pipe (混凝土管道)
1.39	Curtain Wall / External Cladding (幕牆/幕板)
1.40	Drill Bit & Cutter Bit (鑽咀及刀咀)
1.41	Door & Accessory (大門及配件)
1.42	Dry Wall (石膏板)
1.43	Electrode (電焊支)
1.44	Electrical Supplies (電器材料)
1.45	Emulsion Paint / Latex (乳膠漆)
1.46	Epoxy Coating (環氧塗料)
1.47	Epoxy (環氧樹脂漆)
1.48	Fencing / Mesh / Chain (圍欄 / 鐵絲網 / 鎖鏈)
1.49	Fibre Glass Products (玻璃纖維產品)
1.50	Filter (過濾器)
1.51	Fire Retardant Paint (防火漆)
1.51	Floor Board Coating (地台油)
☐ 1.52	Gaseous Fuels / Welding (氣體燃料 / 焊接)
_	Glazed Ceramic Wall Tiles (牆壁瓷磚)
1.54	Gloss Latex Paint (悅亮漆)
1.55	Gloves (手套)
1.56	
1.57	Gold (金)
1.58	Granite (麻石)
1.59	Grinding / Polish (研磨 / 拋光)
1.60	Hammertone Paint (鎚紋漆)
	Heat Insulating Materials (隔熱物料)
1.62	Hot-dip Galvanizer (熱浸鍍鋅)
1.63	Hose and Fittings (膠喉及配件)
1.64	Homogeneous Floor Tiles (過底地磚)
1.65	Hydrated Lime (熟石灰)
1.66	Insulation Materials (絕緣體)
1.67	Iron Work (訂製鐵器)
1.68	Jointing (接口)
1.69	Laminated Plywood (夾板)
1.70	Luminous Paint (螢光漆)
1.71	Marble & Accessory (雲石及配件)
1.72	Metal / Plastic Container (金屬 / 塑膠容器)
1.73	Metal Etching (金屬蝕刻)
1.74	Mosaic Tiles (紙皮石)
1.75	Multi-Colour Paint (多彩漆)
1.76	Nail / Staple & Accessory (釘及配件)
1.77	Non-slip Treatment (防滑處理)
	1 (00.70% = 2)



Ref. No.:	
檔案編號:	

Application Form for Inclusion in the CIC Vendor List

	1.78	Nylon (尼龍)
]	1.79	Pipe Fittings (管道配件)
[1.80	Pipe (喉管)
]	1.81	Pigment / Staining (色粉)
I	1.82	Plastering (抹灰)
I	1.83	Plastic Sheet / Board (膠片 / 膠板)
[1.84	Plastic / Wood Flooring (膠 / 木地板)
]	1.85	Polyurethane Paint (聚脂漆)
-	_ 7 1.86	Polishing / Sharpening (拋光 / 磨石)
-	1.87	Primer / Sealer (封底漆)
-	1.88	Rain Gear (雨具)
·	- 1.89	Red Bricks (紅磚)
-	1.90	River Sand (淡水沙)
·	– – 1.91	Road Marking Paint (馬路劃線漆)
	1.92	Sanitary (潔具)
	1.93	Sanding Paper / Cloth (砂紙 / 布)
·	1.94	Saw Blade / Wheel & Accessory (鋸片 / 碟及配件)
-	1.95	Screw & Accessory (螺絲及配件)
•	1.96	Scantling & Planking (什木枋板)
-	1.97	Silk Screen (絲網)
	1.98	Stone Like Coating Paint (石頭漆)
·	1.99	Solvent (溶劑)
		Spraying Paint (噴漆)
		Steel / Iron Bar (鋼 / 鐵條)
·		Steel / Iron Gate (鋼 / 鐵門)
-		Steel / Iron Pipe (鋼 / 鐵管)
-		Steel / Iron Sheet (鋼 / 鐵片)
		Steel / Iron Wire (鋼 / 鐵線)
		Stone (開山大石)
·		Stopping (填補料)
-		Steel Reinforcement (鋼筋)
-		Stainless Steel Bar (不銹鋼條)
_		Stainless Steel Pipe (不銹鋼管)
		Stainless Steel Sheet (不銹鋼片)
		Stainless Steel Wire (不銹鋼線)
		Steel Wire Rope / Nylon Webbing Sling (鋼絲繩 / 尼龍帆布帶)
	_	Surveying Supplies (測量材料)
-	_ ┐ 1.115	Switch (掣)
		Synthetic Paint (合成油漆)
]		Textured Latex (砂膠漆)
]	1.118	Undercoat Pattern (底漆)
1	1.119	Valve (閥門)
1	1.120	Washable Distemper (可洗膠灰水)
]		Wall Paper (牆紙)
]	1.122	Water Proofing Material (防水物料)
		Water-boiled Proved Laminated Plywood (防水夾板)
		Weldmesh (馬路網)
-		Window & Accessory (窗戶及配件)
•	_ _	



Ref. No.:	
檔案編號:	

Application Form for Inclusion in the CIC Vendor List

			I.I	126	Wire Rope (鋼纜)
			1.1	127	Wood Stripe (木線)
[2	Tools (手工具)	2.1	.1 1	Brush & Accessory (刷及配件)
				.2	Chisel (鑿)
			<u></u>	.3 (Crowbar (鐵筆)
			☐ 2.4		Drawing Instrument (繪圖工具)
			2.5		Electric Drill / Hammer Drill & Accessory (電鑽及配件)
			2.6		Edge Rule (壓尺)
			2.7		File (銼)
			2.8		Hammer (鎚仔)
			2.9		Masonry Tools (泥水工具)
			2.1		Meter / Tester (測試儀錶)
			2.1	.11 1	Portable Electrical Tools & Accessory (手提式電動工具及配件)
			2.1	.12 I	Pipe Bender & Expander (喉管屈曲器及掙大器)
			2.1	.13 1	Pick (泥耙)
			2.1	.14 l	Pipe Cutter (喉管剪鉗)
			2.1	.15 1	Pipe Dies and Head (牙模及扳頭)
			2.1	.16 I	Plane (刨)
				.17 I	Plier / Pincer / Nipper (鉗子)
				.18	Saw (鋸)
			_ _ 2.1	.19	Screwdriver (螺絲批)
			<u> </u>		Spanner / Wrench (扳手)
			☐ 2.2		Scraper / Shovel / Pottery Tool (刮 / 鏟 / 泥刮)
			☐ 2.2		Steel Snip/ Cutter (剪鉗)
			☐ 2.2		Surveying Level (測量平水儀)
			2.2		Surveying Scale (測量磅)
			2.2		Trowel (抹子 / 批匙)
			=		Vise (虎鉗 / 夾)
			_		
	- 2	T. 1 1. G. C 0	2.2		Welding Tools (焊接工具)
L	_	Industrial Safety & Protective Products	3.1		Anti-Surge Protection (防電保護)
		(安全及防護產品)	3.2		Confined Space Equipment (密閉空間設備)
			3.3		Eye Protection (眼部保護)
			3.4	.4 1	Fall Protection (高空防墮保護)
			3.5	.5 1	First Aid Supplies (急救用品)
			3.6	.6 I	Fire Extinguisher & Equipment (滅火筒及設備)
			3.7	.7]	Foot Protection (腳部保護)
			3.8	.8	Gas & Radiation Detector (氣體及輻射探測器)
			3.9	.9 1	Hand Protection (手部保護)
			3.1	.10 1	Hearing Protection (聽覺保護)
			3.1	.11 1	Head Protection (頭部保護)
			— ☐ 3.1	.12	Noise Assessment Tools (噪音評估工具)
			3.1		Respiratory Protection (呼吸保護)
			3.1		Road Safety Equipment & Reflective Vest (交通安全用品及反光衣)
			3.1		Safety Net & Tool Box (安全網及工具箱)
			3.1		Safety Sign / Label (安全標貼/告示牌)
			3.1		Self-Contained Breathing Apparatus & Air Compressor
			⊔ ^{ე.1}		(自供式呼吸器及空氣壓縮機)
			3.1	.18	Welding Protection (燒焊保護)



Ref. No.:	
檔案編號:	

Application Form for Inclusion in the CIC Vendor List

		\sqcup 4	Petroleum & Fuel	□ 4.1	Anti-Rust Spray (內方約·貝務)
			Products	4.2	Brake Fluid (刹掣油)
			(石油及燃油產品)	4.3	Cutting Oil (切割油)
				□ 4.4	Hydraulic Oil (液壓油)
				□ 4.5	Industrial Diesel Oil (工業柴油)
				4.6	Lubricant Oil / Grease Oil (潤滑油/潤滑脂油)
				4.7	Transmission Oil (傳動油)
				4.8	Ultra Low Sulphur Diesel Oil - Ex-petroleum Filling Stations (超低含硫柴油 - 油站加油)
				4.9	Unleaded Petrol - Ex-petroleum Filling Stations (無鉛汽油 - 油站加油)
		□ 5	Construction	5.1	Aluminium / Galvanized Iron Working Platform (高空工作台)
			Equipment &	☐ 5.2	Air Compressor & Blower (風機)
			Machinery (建築設備及機械)	5.3	Bolt & Pipe Threading Machine / Groove Machine (電動管紋機 / 壓坑機)
			(建宗政)用以(成)(成)	□ 5.4	Builder's Lift (建築工地升降機 - 工人籠)
				☐ 5.5	Cable Dectector (地下電纜探測器)
				☐ 5.6	Concrete Mixers (混凝土攪拌機)
				5.7	Concrete Vibrator (混凝土震機)
				5.8	Crawler Crane (履帶式吊機)
				5.9	Dozers (推土機)
				5.10	Dust Collectors (集塵器)
				5.11	Forklifts and Tow Tractors (叉車及拖引車)
				5.12	Gantry Crane (龍門式吊機)
				5.13	Generator Set (發電機組)
				5.14	Gondola Systems (吊船)
				5.15	Hydraulic Punching / Shearing / Swing Beam Machine (液壓沖 / 剪 / 擺式剪板機)
				5.16	Hydraulic Excavators (液壓挖土機)
				5.17	Loaders (裝載機)
				5.18	Mobile / Trucks / Lorry Crane (汽車吊機)
				5.19	Metal Work Machine & Equipment (金屬工作機)
				5.20	Pipe Welding Machine (喉管熱熔對接焊機)
				5.21	Plate Compactor (壓路板)
					Pump (泵)
					Roller Shutter (捲閘)
				□ 5.24	Spray Booth (噴漆柜)
				☐ 5.25	Surveying Measuring Instrument (測量儀器)
				☐ 5.26	Thicknessing Planer (壓鉋機)
				□ 5.27	Tower Crane (塔式吊機)
				☐ 5.28	Wood Turning Lathe (木車床)
		□ 6	Repair &	<u> </u>	Repair & Maintenance – Air-conditioning & Ventilation (空調及通風維修保養)
		_	Maintenance	<u> </u>	Repair & Maintenance – Builders' Lift – Hoists (建築工地升降機維修保養)
			Equipment / Tools (維修及保養設備 或工具)	<u> </u>	Repair & Maintenance – Carpark System (停車場系統維修保養)
				6.4	Repair & Maintenance – Cleaning Equipment (清潔設備維修保養)
				6.5	Repair & Maintenance – Construction Machine & Equipment (建築機械及設備維修保養)
				6.6	Repair & Maintenance – Crawler Crane (屐帶式吊機維修保養)
				6.7	Repair & Maintenance – Diesel Generating Set (柴油發電機組維修保養)
				6.8	Repair & Maintenance – Drinking Facilities & Equipment (飲用水設施及設備維修保養)



Ref. No.:	
檔案編號:	

Application Form for Inclusion in the CIC Vendor List

	6.9	Repair & Maintenance – Electrical (電工工程維修保養)
	6.10	Repair & Maintenance – Fire Service Facilities & Equipment (消防設施及設備維修保養)
	6.11	Repair & Maintenance – Gantry Crane (龍門式吊機維修保養)
	6.12	Repair & Maintenance – Glass (玻璃維修保養)
	6.13	Repair & Maintenance – Gondola System (吊船系統維修保養)
	6.14	Repair & Maintenance – Hydraulic Mobile Crane (液壓輪胎式吊機維修保養)
	6.15	Repair & Maintenance – Kitchen Equipment & Facilities (廚房設備及設施維修保養)
	6.16	Repair & Maintenance – Lift & Escalator (升降機及扶手電梯維修保養)
	6.17	Repair & Maintenance - Lightning System (避雷系統維修保養)
	6.18	Repair & Maintenance – Lorry Crane (起重機貨車維修保養)
	6.19	Repair & Maintenance – Measurement Equipment (量度設備維修保養)
	6.20	Repair & Maintenance – Metal Work Machine & Equipment (金屬工作機械及設備維修保養)
	6.21	Repair & Maintenance – Non-Destructive Testing Equipment (非破壞性測設備維修保養)
	6.22	Repair & Maintenance – Office Equipment (辦公室設備維修保養)
	6.23	Repair & Maintenance – Photocopier Machine (影印機維修保養)
	6.24	Repair & Maintenance – Plumbing & Drainage (水務工程維修保養)
	6.25	Repair & Maintenance – Power Supply Facilities (電力裝置設備維修保養)
	6.26	Repair & Maintenance – Power Tools (電動工具維修保養)
	6.27	Repair & Maintenance – Private Car (私家車維修保養)
	6.28	Repair & Maintenance – Safety Equipment (安全設備維修保養)
	6.29	Repair & Maintenance – Security Facilitate (警衛設備維修保養)
	6.30	Repair & Maintenance – Sports Equipment (體育設備維修保養)
	6.31	Repair & Maintenance – Survey Equipment (測量設備維修保養)
	6.32	Repair & Maintenance – Tower Crane (塔式起重機維修保養)
	6.33	Repair & Maintenance – Water Pump (水泵維修保養)
	6.34	Repair & Maintenance – Walkie Talkie (對講機維修保養)
	6.35	Repair & Maintenance – Welding Tools & Equipment (焊接工具設備維修保養)
	6.36	Repair & Maintenance – Windows (窗戶維修保養)
7 Testing & Survey	7.1	Testing & Survey - Air Quality (室內空氣質素測試)
(測試及檢驗)	7.2	Testing & Survey - Acoustic Test / Noise Assessment (噪音評估測試)
	7.3	Testing & Survey - Car & Lorry (車輛續牌驗查)
	7.4	Testing & Survey - Compressor & Blower (空氣壓縮機測試)
	7.5	Testing & Survey - Drinking Water (飲用水測試)
	7.6	Testing & Survey - Fire Service Installation & Equipment (消防裝置及設備檢測)
	7.7	Testing & Survey - Gas Cylinder & Tester (氣樽及試錶測試)
	7.8	Testing & Survey - Gondola System (吊船系統測試及檢查)
	7.9	Testing & Survey - Illumination Quality (照明質量測試)
	7.10	Testing & Survey - Inspection, Testing & Certification for Fixed Electrical Installations (固定電力裝置定期測試及檢查)
	7.11	Testing & Survey - Jack & Lifting (千斤頂安全測試)
	7.12	Testing & Survey - Lift & Escalator (升降機安全負荷測試)
	7.13	Testing & Survey - Loader & Crane (裝載及起重機械安全負荷測試)
	7.14	Testing & Survey - Measurement Tool (儀器精確度測試及調較)
	7.15	Testing & Survey - Non-Destructive (非破壞性檢測)
	7.16	Testing & Survey - Power Supply Facilities (電力裝置設備測試及檢查)



Ref. No.:	
檔案編號:	

Application Form for Inclusion in the CIC Vendor List

			Testing & Survey - Safety Equipment (安全政備測試及恢查)
		7.18	Testing & Survey - Testing Materials / Laboratory Services (物料 / 化驗服務測試)
		7.19	Testing & Survey - Tower Crane (塔式起重機測試及調查)
□ 8	Environmental	8.1	Asbestos Removal (清理石棉)
	Engineering & Waste Disposal	8.2	Dumping - Construction Materials (建築物廢料處理)
	(環保工程及	8.3	Grease Trap Cleaning & Maintenance (隔油池清洗及保養)
	廢物處理)	8.4	Environment Planning (環保規劃)
		8.5	Environment Recycling (環保再造)
		8.6	Sewage Treatment (污水處理)
		8.7	Tree Risk Assessment (樹木風險評估)
		8.8	Waste & Scrap Disposal (廢置材料回收)
□ 9	Office Furniture &	9.1	Carpet / Floor Mat (地毯)
	Equipment (辦公室傢俱及	9.2	CCTV System (閉路電視監控系統)
	設備)	9.3	Chair (椅子)
		9.4	Cleaning Supplies (清潔用品)
		9.5	Cleaning Tools (清潔工具)
		9.6	Clock & Watch (鐘錶)
		9.7	Communication System (通信系統)
		9.8	Curtain & Blinds (窗簾及百葉簾)
		9.9	Doorphone System (門禁系統)
		9.10	Electric Household Appliance (家用電器)
		9.11	Filing Cabinet / Locker (文件櫃/儲物櫃)
		9.12	Glass & Accessory (玻璃及配件)
		9.13	Ink Cartridges, Toner Cartridges & Ribbons (打印機油墨盒, 碳粉盒及色帶)
		9.14	Information Display System and Service (資訊顯示系統和服務)
		9.15	Kitchen Equipment (廚房設備)
		9.16	Lighting / Bulb (照明/燈泡)
		9.17	Medicine & Health Supplies (藥物及健康)
		9.18	Office / Storage Container (辦公室/貯物貨櫃)
		9.19	Partition Panel and Accessory (屏風及附件)
		9.20	Paper (紙張)
			Paper Shredder / Laminator (碎紙機 / 過膠機)
		9.22	Pantry Supplies (茶水間用品)
		9.23	Paper Towels & Tissues (紙巾及廁紙)
		9.24	Sign (門牌)
		9.25	Stage & Accessory (舞台用品)
		9.26	Stationery (文具)
		9.27	Steel Desk (鋼枱)
		9.28	Wall Board Assembly (組合壁板)
		9.29	Water Dispenser & Service (飲水機及服務) Wooden Desk (木枱)
— 10	Drinting &	9.30	Printing of Annual Report (印刷年報)
1 0	Printing & Photocoping Services (印刷及複印服務)	☐ 10.1 ☐ 10.2	Printing of Aluminium Roll-Up Screen (印製易拉架)
		10.2	Printing of Booklet & Handouts (印刷小冊子及講義)
		☐ 10.3 ☐ 10.4	Printing of Certificate (印刷證書)
		☐ 10.4 ☐ 10.5	Printing of Company Letterhead Materials (印刷公司印刷品)
		10.5	Printing of Flag / Banner (印製旗/旗幟)
		L 10.0	Timing of time / Dunitor (中农)炽州



Ref. No.:	
當案編號:	

Application Form for Inclusion in the CIC Vendor List

	П 1	0.7	Printing of Name Card (印刷下月)
	1 0	0.8	Photocopying Services (複印服務)
	□ 10	0.9	Printing of Promotional Items (印刷宣傳用品)
	1 0	0.10	Printing / Production of Backdrop (印刷 / 製作背幕)
	— П 10	0.11	Printing of P.V.C. Card (印製證明卡)
☐ 11 Information	_		Computer Hardware Accessory (電腦硬件配件)
Technology and	_		Computer Hardware (電腦硬件)
Computers			
(資訊科技及電腦)			Computer Hardware Leasing (電腦硬件租用)
			Computer Hardware Peripheral (電腦硬件周邊)
			Computer Network (電腦網絡)
		1.6	Contract Out Works - Computer Service (外判工程 - 電腦服務)
		1.7	Computer Software (電腦軟件)
	□ 1	1.8	Computer Software & Services Subscription (電腦軟件及服務租用)
	□ 1	1.9	Information Technology & Telecommunications (資訊科技及電信)
		1.10	Repair & Maintenance – Audio / Visual (音頻 / 視頻維修保養)
	\Box 1	1.11	Repair & Maintenance – Computer Equipment (電腦設備維修保養)
			Repair & Maintenance – Card Printer (證明卡打印機維修保養)
			Repair & Maintenance – Computer Room Facilities (電腦房設備維修保養)
		1.14	Repair & Maintenance – Software and Application Support (軟件及應用系統支援維修保養)
		1.15	Repair & Maintenance – Server and Network Services (伺服器及網絡服務維修保養)
	\square 1	1 16	Repair & Maintenance – Telecom System & Equipment (電訊系統及設備維修保養)
			Contract Out Works - Software Development (外判工程 - 軟件開發)
			Rental of Telecom System & Equipment (租用電訊系統及設備)
12 Pantal Samiasa			Telecom Services (電訊服務)
☐ 12 Rental Services (租用服務)			Rental of Crane (租用吊機)
(111/14/14/4/)	_		Rental of Cylinder Service & Air Filling (租用氣樽及充氣)
			Rental of Digital Photocopier (租用影印機)
	□ 12		Rental of Generator Set (租用發電機組)
		2.5	Rental of Gown (租用禮服)
	□ 12	2.6	Rental of Horses and Carriage Service (租用馬車服務)
		2.7	Rental of Machinery Equipment (租用機械設備)
	1 2		Rental of Portable Mobile Toilets with Hygiene Service (租用流動式廁所及清理服務)
	□ 12	2.9	Transportation Service - Goods (貨運服務)
	\square 13	2.10	Transportation Service - Passenger (客運服務)
☐ 13 General Supplies		3.1	General Fixture (一般固定裝置)
(一般供應)	— □ 13		Light Truck / Coaster (輕型貨車及小巴)
			Private Car (私家車)
	_		Promotional Items (宣傳物品)
			Reference Book/ Reference Report & Publication (參考書/ 參考報告及刊物)
	_		Seasonal Decoration (節慶裝飾)
	_		
	_		Souvenir (紀念品)
	_		Sports Equipment (適體健器材)
	_		Stage Accessory (舞台用品)
	_		Building Management Supplies (物業管理供應)
	13	3.11	Trophy / Medals (獎杯 / 獎牌)



Ref. No.:	
檔案編號:	

Application Form for Inclusion in the CIC Vendor List

			13.12	Uniform (制服)
			13.13	Walkie Talkie (對講機)
	□ 14	General Services	14.1	Advertisement - Advertising Design & Production (廣告設計及製作)
		(一般服務)		Advertisement - Advertisement Production & Placement Services (廣告製作及報刊廣告代理服務)
			14.3	Referee Services (裁判服務)
			14.4	Catering Services (餐飲服務)
			14.5	Clipping Services (剪報服務)
			14.6	Catering / Kitchen Equipment and Services (餐飲/廚房設備及服務)
			14.7	Cleaning Services (清潔服務)
			14.8	Copywriting & Editoral Services (撰稿及編輯服務)
			14.9	Drycleaning & Laundry Services (乾洗及洗衣服務)
			14.10	Driver Services (司機服務)
			14.11	Disposal Services (棄置服務)
			14.12	Design Services - Graphics Design (平面設計)
			14.13	Design Services - Illustration / Character Design (插畫 / 角色設計)
			14.14	Design Services - Interior / Exterior Design (室內 / 室外設計)
			14.15	Design Services - Product and Logo Design (產品及商標設計)
				Design Services - Website / Apps Design & Development (設計網頁 / 應用程式及製作)
				Event Management - Exhibition Booth Design, Production & Installation (展覽攤位設計、製作及佈置)
				Event Management - Event Production & Management Services (活動籌辦及管理服務)
			14.19	Event Management - Photography Services (照相服務)
			14.20	Event Management - Video Broadcast Services (視頻廣播服務)
			14.21	Event Management - Video Shooting and Editing Services (影片製作及剪接)
			14.22	Football Referee Services (足球裁判服務)
			14.23	Landscape & Gardening (園境及園藝)
			14.24	Lettershop Services (入信服務)
			14.25	Logistics & Transport Services (物流及運輸服務)
			14.26	Mailing / Courier & Delivery Services (郵寄 / 速遞及運送服務)
			14.27	Pest Control (蟲害防治)
			14.28	Property / Facility Management (物業 / 設施管理)
			14.29	Public Relations (公共關係)
			14.30	Scanning Services (掃描服務)
			14.31	Security Guarding Services (保安護衛服務)
			14.32	Signage Production (指示牌製作)
			14.33	Translation Services - Annual Report Translation (年報翻譯)
			14.34	Translation Services - General Translation (一般翻譯)
			14.35	Translation Services - Simultaneous Translation & Interpretation (即時翻譯及傳譯)
	□ 15	Professional	15.1	Agency Services (代理服務)
	_	Services (專業服務)	15.2	Consultancy Services (顧問服務)
			15.3	Auditing Services (審計服務)
			15.4	Building Information Modeling (BIM) (建築訊息模型)
			15.5	Certificate Services (認證服務)
			15.6	Counseling Services (輔導服務)
			15.7	Human Resources Services (人力資源服務)
			15.8	Insurance - General Insurance (一般保險)



Ref. No.:	
檔案編號:	

Application Form for Inclusion in the CIC Vendor List

		□ 15.9 Insurance - Medical Insurance (醫療保險)
		□ 15.10 Legal Services (法律服務)
		□ 15.11 Market Research (市場調査)
		□ 15.12 Medical Services (醫療服務)
		□ 15.13 Quality Management Services (質量管理服務)
		□ 15.14 Risk Management and Data Privacy Assessment (風險管理及數據私隱評估)
		□ 15.15 Trade Testing (技能測試)
		□ 15.16 Training - Course (培訓課程)
		□ 15.17 Training - Management (培訓管理)
		□ 15.18 Training - Safety (培訓安全)
Type 2 - Construction Contract	or	
□ 類別二 - 建築工程承辦商 □	1	Contractors – Air-conditioning & Ventilation (空調及通風)
	2	Contractors – Building Information Modeling (建築訊息模型)
	3	Contractors – Carpark System (停車場系統)
	4	Contractors – Curtain / Blind / Carpet Tile/ Floor Finishes (窗簾/簾/方塊地毯/ 地板)
	5	Contractors – Design & Construction (設計及施工工程)
	6	Contractors – Demolishment Work (拆除工程)
	7	Contractors – Electrical (電工工程)
	8	Contractors – External Wall (外牆工程)
	9	Contractors – Facility Security (設備保安)
	10	Contractors – Civil, Foundation & Geotechnical (土木, 地基及土力工程)
	11	Contractors – Fire Service Facilities & Equipment (消防設施及設備工程)
	12	Contractors – Gas & Oil (煤油及石油氣工程)
	13	Contractors – Glass (玻璃工程)
	14	Contractors – Grass Cutting (剪草)
	15	Contractors – Kitchen Equipment & Facilities (廚房設備及設施工程)
	16	Contractors – Lift & Escalator (電梯及扶手電梯)
	17	Contractors – Platform (平台)
	18	Contractors – Plumbing & Drainage (水務工程)
	19	Contractors – Playground Equipment (遊樂場設備)
	20	Contractors – Scaffolding Work (建築棚架工程)
	21	Contractors – Steel Door Work (鋼門工程)
	22	Contractors – Structure Repair (結構修復工程)
	23	Contractors – Steel Structural Work (鋼鐵結構工程)
	24	Contractors – Waterproof (防水工程)
	25	Contractors – Windows (窗戶工程)
	26	Contractors – Wooden Door Work (木門工程)
	27	Contractors – Workshop Equipment & Facilities (測試場設備及設施工程)
Type 3 - Others (plea	asa 6	specify if the above is found inappropriate) 請細列明如上述沒有適用者
· ·	use s 3.1	pectyy y me above is found mappropriate) 請潮的另外是上述反角趣用有
		
		
	3.2	
		(Note: If found insufficient space, please use separate sheet)
		<i>(註:如空位不足,請另紙列出)</i>



Ref. No.:	
當案編號:	

Application Form for Inclusion in the CIC Vendor List

建造業議會承辦商/供應商登記申請書

	Please provide names of your major clients / customers for our internal reference purposes.		
	請提供貴公司的主要客戶名稱,作內部參考之用。		
(1)	(2)		
(3)	(4)		

PART IV - DOCUMENTS TO BE SUBMITTED 第四部 - 須提交證明文件清單

Type 1 - Supplier (類別一 - 供應商)

(i) Please attach a copy of the valid Business Registration Certificate for our reference and record.

請寄交有效的商業登記證文件副本以供參考和存照。

Please attach one set of relevant product / service catalogue(s) for our consideration.

請夾附最少一份有關產品/服務目錄以供參閱。

Type 2 - Construction Contractor (類別二 - 建築工程承辦商)

Please attach a copy of the valid Business Registration Certificate for our reference and record.

請寄交有效的商業登記證文件副本以供參考和存照。

i) Please attach one set of relevant product / service catalogue(s) for our consideration.

請夾附最少一份有關產品/服務目錄以供參閱。

(iii) Please attach company profile

請夾附公司簡介

(iv) Please attach past 2 years financial report

請夾附最近兩年之財務報表

(v) Please attach the past 3 years relevant job reference with the contract amount for each selected category(s)

請夾附最近三年每個選定類別之相關工作參考及合同金額

(vi) Please attach relevant construction works licence(s)

請夾附有關工程牌照

(vii) Please attach Quality Assurance policy

請夾附質量保證政策

(viii) Please attach Health and Safety policy

請夾附健康及安全政策

(ix) Please attached Quality Management System certification(s) (if any)

請夾附品質管理系統認證 (如有)

(x) Reference/ Appreciation Letter(s) (if any)

請夾附參考/感謝信 (如有)



Ref. No.:	
檔案編號:	

Application Form for Inclusion in the CIC Vendor List

建造業議會承辦商/供應商登記申請書

PART V - CERTIFICATION 第五部 - 證明

(i) Personal Information Collection Statement 收集個人資料聲明

- (1) CIC will use the provided information for the purpose of processing this registration form and dealing with our procurement-related matters. 担併的容料合用作未業命虔理有關中達及知识为未業命之至難第(卅應至日即拉賺和關的東京)。
 - 提供的資料會用作本議會處理有關申請登記成為本議會之承辦商/供應商及與採購相關的事宜。
- Under the provisions of the Personal Data (Privacy) Ordinance, you have the right to request access to or correction of personal data. Written requests should be addressed to CIC.
 - 根據個人資料(私隱)條例,你有權要求查閱和更改個人資料,有關申請須以書面向本議會提出。
- 3) CIC will not be able to process and consider incomplete forms.

如果資料有任何遺漏,本議會將不能處理本表格事宜。

(ii) Declaration 聲明

- (1) I declare that all information given in this registration form is, to the best of my knowledge, accurate and complete. If any false information is given, the application is deemed to be invalid and I shall forfeit my right to submit quotations and tender.
 - 本人聲明本表格內所提供的一切資料,依本人所知均屬真確,並知道倘若虛報資料,申請即屬無效,且喪失其後落標資格。
- (2) I agree that if registered, I will conform to the regulations, terms and conditions set by the CIC. 本人同意如本人註冊成為建造業議會之承辦商/供應商,當遵守建造業議會之工作守則。
- (3) I declare that our company as stated in this form shall uphold the highest ethical principles in relation to our procedures as well as having a corrupt free environment in rendering of goods and services to the CIC operations including compliance with all applicable laws and regulations, maintaining confidentiality where appropriate, adopt an open and fair competition, anti-bribery and corruption.
 - 本人聲明本申請書上的公司會在運作過程中堅守道德原則,並在廉潔的環境下向建造業議會提供貨品及服務,包括遵守所有適用法例及規則、保密原則、防賄法例、反貪法例,以及維護公開公平的競爭。

I apply on behalf of the aforementioned company for inclusion in the CIC Vendor List.

本人 : 性代表上, 是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个		
	Signature: 簽署:_	
	Name in block letters: 姓名(正楷):_	
	Designation: 職銜:_	
(Space for company chop) (公司印鑑)	Date: 曰期:	



Ref. No.:		
當案編號:		

Application Form for Inclusion in the CIC Vendor List

建造業議會承辦商/供應商登記申請書 DOCUMENT CHECKLIST 文件核對表

Please enclosed the following items (請夾附以下文件):						
Type 1 -	Type 1 - Supplier (類別一 - 供應商)					
	Completed application form for inclusion in the CIC Vendor List (Form PRO-01)					
	已填妥建造業議會承辦商/供應商登記申請書					
	Copy of valid Business Registration Certificate					
_	有效的商業登記證文件副本					
	Relevant product / service catalogue(s)					
	有關產品/服務目錄					
Type 2 -	Construction Contractor (類別二 - 建築工程承辦商)					
	Completed application form for inclusion in the CIC Vendor List (Form PRO-01)					
	已填妥建造業議會承辦商/供應商登記申請書					
	Copy of valid Business Registration Certificate					
	有效的商業登記證文件副本					
	Relevant product / service catalogue(s)					
	有關產品/服務目錄					
	Company profile					
	公司簡介					
	Past 2 years financial report					
	最近兩年之財務報表					
	Past 3 years relevant job reference with the contract amount under each selected item category(s)					
	最近三年每個選定類別之相關工作參考及合同金額					
	Relevant construction works licence(s)					
	有關工程牌照					
	Quality Assurance policy					
	質量保證政策					
	Health and Safety policy					
	健康及安全政策					
	Quality Management System certification(s) (if any)					
	品質管理系統認證 (如有)					
	Reference/ appreciate letter(s) (if any)					
	參考/感謝信 (如有)					
Note: Please put a "✓" in the box under each column to indicate that the document has been enclosed.						
	頁:請在欄內方格加上「✓」號以示已附上該文件。					