THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION ARCHITECTURAL SERVICES DEPARTMENT ARCHITECTURAL BRANCH

ASSIGNMENT BRIEF

FOR

QUOTATION CONTRACT NO. 15/2018/AB1

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1. Background of the Assignment

- 1.1 The ArchSD intends to appoint a Consultant firm (the "Consultant") to provide "Creation of BIM Objects" (the "Assignment"). The Assignment is proposed by Building Information Modelling Working Group (BIMWG) under the purview and supervision of the Chief Architect/1 (CA/1) and BIM Support Team.
- 1.2 Development Bureau of the Hong Kong SAR Government issued Technical Circular (Works) No. 7./2017 on Adoption of Building Information Modelling for Capital Works Projects in Hong Kong which takes effect from January 2018. The Circular has mandatory items on BIM uses both at design stage and construction stage.
- 1.3 A BIM model comprises numerous BIM objects such as floors, walls, windows, doors, furniture, etc. BIM object creation is an integral part of the BIM process, underpinning and helping to standardize elements within the BIM model. Object creation produces simplified versions of building products, providing an information-rich 3D model that is usable by Architects, Engineers, and Contractors.
- 1.4 High quality BIM objects could provide the right levels of information, appropriate parametric geometric behaviour, standard facility management properties (e.g. COBie), and a consistent, structured, easy-to-use format. It should be efficient to use, easily comparable and interoperable. A comprehensive and usable BIM object library would facilitate daily operation and improve efficiency in design and construction of projects.

2. Objectives of the Assignment

- 2.1 To create common BIM objects to facilitate the modelling and data management of BIM models. To enhance productivity and efficiency, it is essential to establish every BIM object with core property set that:
 - a) Adopts a consistent approach to classification
 - b) Applies a standard naming convention for ease of use
 - c) Standardizes approaches to the level of detail and object presentation
- 2.2 To study and recommend inclusion of suitable parameters for BIM objects to facilitate BIM workflow and the operation of ArchSD, including statutory submission, tendering, etc. with due consideration in the management of BIM object library and best practices in BIM application.
- 2.3 To transfer knowledge and techniques of BIM object creation, through demonstration of the approach and methodology in object creation, to enable ArchSD staff to continuously

- develop, customize and fine-tune the BIM objects, e.g. capable of modifying and improving the BIM objects in the future.
- 2.4 To demonstrate by means of case studies or examples, the functions, features and limitation of the created BIM objects. To discuss the advantages and disadvantages of different approaches, solicit input from ArchSD and incorporate for improvement.
- 2.5 To apply the latest technology and software technique and identify technical concerns / limitations of BIM software and rooms for improvement for continuous development of the BIM objects.

3. Lump Sum Fees

- 3.1 A lump sum quotation is invited. The quotation for the Assignment shall be deemed to include the cost of all the specified professional services, evaluation, testing, co-ordination/liaison with software developers/vendors, and the cost of all other things and matters necessary for the proper carrying out and completion of the Assignment as specified.
- 3.2 The Consultant is also required to provide the cost of Optional Items for Item B and Item C in Clause 4.1 (b) and (c) respectively. The ER (or his representative) have the right to instruct the Consultant to carry out the Optional Items during the course of the Assignment.

4. Description of the Assignment

- 4.1 The Assignment requires the creation of three-dimensional BIM objects with the following general requirements:
 - Software version: Autodesk Revit 2018 and 2019
 - Level of Development: 300
 - Unit of measurement: Millimetres
 - Language: English
 - Can be correctly mirrored and rotated
 - The design of object shall minimize the errors induced by manual input, such as contradictory inputs in different parameters. Drop down menus, simple tick boxes should be used as far as possible. Simple logical checking for parametric inputs should be provided.

(a) Item A - Doors

The following BIM objects shall be created:

- (i) Type A Single Flush Door
- (ii) Type B Single Flush Door with Vision Panel
- (iii) Type C Double Flush Door
- (iv) Type D Double Flush Door with Vision Panel
- (v) Type E Single Sliding Door
- (vi) Type F Double Sliding Door
- (vii) Type G Sliding Folding Door
- (viii) Type H Accessible Toilet Door
- (ix) Type J Louver Door
- (x) Type K Single Access Panel
- (xi) Type L Double Access Panel

In addition to the built-in family parameters, the following parameters shall be incorporated in the BIM objects as detailed in Annex A1:

Name of Parameter	Group	Type of					-	Гур	e				
	parameter under	parameter	Α	В	С	D	Е	F	G	Н	J	K	L
Structural Opening (generated by formula)	Dimensions	Length	1	\	✓	✓	✓	✓	√	✓	~	✓	✓
Primary Door Width	Dimensions	Length	✓	✓	✓	√				√	√		
Secondary Door Width	Dimensions	Length			√	√							
Clear Width (generated by formula and for MOE calculation purpose)	Dimensions	Length	~	\	✓	· ·	\	√	✓	√	*	✓	✓
Door Height	Dimensions	Length	✓	√	✓	~	✓	✓	√	√	1		
Vision panel offset from edge	Dimensions	Length		√		✓	√	√			:		
Vision panel offset from top	Dimensions	Length		√		√	√	✓					
Vision panel width	Dimensions	Length		√		✓	√	✓					
Vision panel height	Dimensions	Length		√		✓	√	✓					
Opening degree > 90°	Construction	Yes/No	✓	✓	✓	✓							
Fire-rated door	Fire	Yes/No	√	√	✓	√				✓		√	✓
- F.R.R/30/30	Protection	Yes/No	✓	✓	✓	✓				✓		✓	✓
- F.R.R/60/60		Yes/No	✓	✓	✓	1				✓		✓	✓
- F.R.R/120/120		Yes/No	✓	✓	\	✓				✓		✓	✓
Double action	Construction	Yes/No	✓	√	✓	<							
Ironmongery set Room calculation point	Identity Data N/A	Text N/A	√	< <	\	*	Y	\		✓	✓	✓	✓
Fail-safe	Fire Protection	Yes/No	V	V	V	1	V	V			V		
Smoke seal	Fire Protection	Yes/No	V	✓	\	4				√			
Door Mark for SCCU Submission	Fire Protection	Text	\	<	<	<	<	<	√	<	<	<	✓
Readily open without use of a key	Fire Protection	Yes/No	1	1	\	*	✓	*		V	✓		
Louvre offset from edge	Dimensions	Length					✓	\		7	√		
Louvre offset from bottom	Dimensions	Length					✓	\		√	~		
Louvre width	Dimensions	Length					✓	✓		√	√		
Louvre height	Dimensions	Length					~	✓		✓	√		
Passage width	Dimensions	Length					✓	\	√				
Sliding door width (generated by formula)	Dimensions	Length					✓	\					
Opening to Left	Construction	Yes/No					✓		✓				
Opening to Right	Construction	Yes/No					✓		✓				
No. of door panels	Construction	Integer							. ✓				
Door panel width (generated by formula)	Dimensions	Length							✓				
Centre hung	Construction	Yes/No]]		✓				
End hung	Construction	Yes/No]]				✓				
Grab bar	Construction	Yes/No					✓			✓			
Access panel width	Dimensions	Length										✓	√
Access panel height	Dimensions	Length										✓	✓
Height from FFL	Dimensions	Length										√	√

(b) Item B - Covered Drainage Channels

A BIM object of Covered Drainage Channels with the following properties shall be created:

- (i) Line-based
- (ii) Length of the Channel can be scheduled
- (iii) Division for Channel Cover shall follow the geometry of the Channel and in accordance with the parametric length
- (iv) Recessed into the ground
- (v) Customized presentation at various degrees of turns and junctions / intersections

The fall inside drainage channel need NOT be modelled.

In addition to the built-in family parameters, the following parameters shall be incorporated in the BIM objects as detailed in Annex A2:

Name of Parameter	Group parameter under	Type of parameter
Overall Width	Dimensions	Length
Overall Depth	Dimensions	Length
Channel Width	Dimensions	Length
Channel Depth	Dimensions	Length
Cover Thickness	Dimensions	Length
Cover Width	Dimensions	Length
Cover Length	Dimensions	Length
Wall thickness	Dimensions	Length
(generated by formula)		

Optional Item

As optional item, the Consultant shall be required to develop the object's feature to follow the exact shape and contour of site topography, upon instructions by the ER (or his representative).

(c) Item C - Hoarding & Covered Walkway

BIM objects of Hoarding / Covered Walkway of Type A to Type H2 with the following properties shall be created:

- (i) Line-based
- (ii) Length of the Hoarding/Covered Walkway can be scheduled
- (iii) The Gantry, if applicable, shall be generated at the position of starting point of line and the hoarding/covered walkway shall continue to the ending point in a linear fashion.

In addition to the built-in family parameters, the following parameters shall be incorporated in the BIM objects as detailed in Annex A3:

Name of	Group	Type of					Тур	e			
Parameter	parameter under	parameter	A	В	С	D	É	F	G1	Hi	H2
Covered	Dimensions	Length		✓					✓	✓	✓
Walkway		-									
Width											
(W1)				ŀ							
L1	Dimensions	Length			V	V			1	√	1
L2	Dimensions	Length			✓	1			✓	1	✓
W2	Dimensions	Length			V	✓			1	1	V
S	Dimensions	Length			✓	✓			✓	✓	✓

Optional Item 1

As optional item, the Consultant shall be required to develop the turns and junctions of different types of hoarding/covered walkway similar to those detailed in Annex A3, upon instructions by the ER (or his representative).

Optional Item 2

As optional item, the Consultant shall be required to develop the object's feature to follow the exact shape and contour of site topography, upon instructions by the ER (or his representative).

(d) Item D - Roller shutter

The following BIM objects shall be created:

- (i) Vertical shutter
- (ii) Horizontal shutter

In addition to the built-in parameters, the following parameters shall be incorporated in the BIM objects as detailed in Annex A4:

Name of Parameter	Group parameter under	Type of Parameter
Shutter Type	Construction	
- Slat		Yes/No
- Grille		Yes/No
- Perforated		Yes/No
Shutter Opening Width	Dimensions	Length
Shutter Opening Height	Dimensions	Length
With Hood	Construction	Yes/No
Hood Width	Dimensions	Length
Hood Depth	Dimensions	Length
Hood Height	Dimensions	Length
Fire-rated	Fire Protection	Yes/No
Stability		Integer
Integrity		Integer
Insulation		Integer
Guide rail width	Dimensions	Length
Guide rail depth	Dimensions	Length
Wicket door offset from guide rail	Dimensions	Length
Wicket door offset from floor	Dimensions	Length
Wicket door height	Dimensions	Length
Wicket door width	Dimensions	Length

(e) Item E - Cat Ladder and Intermediate Platform

The following BIM objects shall be created:

- (i) Cat Ladder Type A
- (ii) Cat Ladder Type B
- (iii) Cat Ladder Type C
- (iv) Intermediate Platform

For (i)-(iii), the following are required based on modification of the Component Family Cage Ladder:

- Add lockable plate at bottom
- Change circular hoop to rectangular hoop with round corners
- Change to floor hosted
- Minimum value of Height shall be 1.5m
- The top part should be modified to suit Intermediate Platform, if applicable

In addition to the built-in family parameters, the following parameters shall be incorporated in the BIM objects as detailed in Annex A5:

Name of Parameter	Group	Type of	Type			
	parameter	parameter	A	В	С	I.P.
	under					ļ
Height	Dimensions	Length	✓	✓	✓	
Guardrail Height	Dimensions	Length	>			
Rung Width	Dimensions	Length	>	✓	√	
Rung Space	Dimensions	Length	✓	✓	✓	
Bottom Rung Height	Dimensions	Length	✓	✓ .	✓	
Tubular Rung Radius	Dimensions	Length	✓	✓	√	
Tubular Side Rail Radius	Dimensions	Length	>	✓	√	
Hoop Width	Dimensions	Length	✓	✓		
Hoop Depth	Dimensions	Length	√	✓		
Hoop Internal Radius	Dimensions	Length	✓	1		
Hoop Space	Dimensions	Length	✓	✓		
Bottom Hoop Height	Dimensions	Length	✓	*		
Tubular Hoop Radius	Dimensions	Length	✓	✓		
Vertical Bar Width	Dimensions	Length	✓	✓		
Vertical Bar Thickness	Dimensions	Length	✓	√		
Distance from wall	Dimensions	Length	✓	1	✓	
Lockable Plate Width	Dimensions	Length	✓			
Lockable Plate Height	Dimensions	Length	✓			
Lockable Plate offset	Dimensions	Length	✓			
from ground						
Intermediate Platform	Construction	Yes/No	√	✓	✓	
Platform Length	Dimensions	Length				✓
Platform Width	Dimensions	Length				✓
Railing Height	Dimensions	Length				✓
Offset from wall	Dimensions	Length				√
Opening Width	Dimensions	Length				✓

(f) Item F - Universal Toilets

The following BIM objects shall be created:

- (i) Type A: Elderly Friendly Toilet Compartment-1
- (ii) Type B: Elderly Friendly Toilet Compartment-2
- (iii) Type C: Elderly and Family Friendly Toilet-1
- (iv) Type D: Elderly and Family Friendly Toilet-2
- (v) Type E: Accessible Elderly and Family Friendly Toilet-1
- (vi) Type F: Accessible Elderly and Family Friendly Toilet-2
- (vii) Type G (Option A): Accessible Elderly and Family Friendly Toilet-3 (viii) Type G (Option B): Accessible Elderly and Family Friendly Toilet-3

In addition to the built-in family parameters, the following parameters shall be incorporated in the BIM objects as detailed in Annex A6:

Name of Parameter	Type of	Ι			Т	/pe				
	Group parameter under	parameter	A	В	С	D	E	F	G (Option A)	G (Option B
								ļ 		
Overall Length	Dimensions	Length	✓	✓	✓	✓	✓	. ✔	✓	✓
Overall Width	Dimensions	Length	✓	✓	1	✓	✓	✓	✓	✓
WC offset	Dimensions	Length	✓	✓	✓	✓	√	✓	✓	V
Foldable grab rail (1) offset	Dimensions	Length	1	1	*	V	*	~	√	V
Foldable grab rail (1) height	Dimensions	Length	V	√	V	✓	✓	~	√	√
Foldable grab rail (2) offset	Dimensions	Length		~	√					
Foldable grab rail (2) height	Dimensions	Length		√	✓					
Vertical grab rail (1) offset	Dimensions	Length	✓		√	√	√	✓	✓	1
Vertical grab rail (1) height	Dimensions	Length	√		✓	√	✓	√	✓	V
Vertical grab rail (2) offset	Dimensions	Length				✓	✓	✓	✓	V
Vertical grab rail (2) height	Dimensions	Length	_			✓	✓	✓	✓	✓
Horizontal grab rail (!) offset	Dimensions	Length	√	√	√	√	✓	√	✓	√
Horizontal grab rail (1) height	Dimensions	Length	√	✓	✓	√	√	✓	✓	V
Horizontal grab rail (1) width	Dimensions	Length	√	√	į					
Horizontal grab rail (1) length	Dimensions	Length	✓	√						
Horizontal grab rail (2) offset	Dimensions	Length	ļ			✓	V	√	√	√
Baby seat offset	Dimensions	Length			✓		✓	√		
Baby seat height	Dimensions	Length			1		✓	√		

			1 -					-
Dimensions	Length		✓					
S height Dimensions			✓					
Dimensions	Length		V					
Dimensions	Length		1					
Dimensions	Length		✓					
Dimensions	Length		✓			<		
Dimensions	Length		✓			>		
Dimensions	Length		✓			√		
Dimensions	Length				✓	\	★	✓
Dimensions	Length		✓	\		\	<	✓
Dimensions	Length		✓	✓		✓	✓	✓
shbasin Height Dimensions			✓	✓		\	✓	✓
Dimensions	Length			\			★	✓
Dimensions	Length			\		\		
Dimensions	Length			✓	√	✓		
Dimensions	Length	`		✓	✓	✓		
Dimensions	Length			✓	✓	√		
Dimensions	Length			√	√	✓		
Dimensions	Length			✓				
Dimensions	Length				✓	✓		
Dimensions	Length					✓		
Dimensions	Length					✓		
Dimensions	Length						\	
Dimensions	Length						\	
Dimensions	Length						✓	
	Dimensions	Dimensions Length	Dimensions Length	Dimensions Length	Dimensions Length	Dimensions Length	Dimensions Length	Dimensions Length

4.2 Individual BIM Object Sheet should be submitted with each BIM Object to record the properties of the object. The Consultant is required to complete the BIM Object Sheets as per the format shown in Annex B1-B6.

5. Standards, Specifications and Guidelines

- 5.1 The creation of BIM objects shall make reference to the following international and local standards and guidelines:
 - (a) CIC Building Information Modelling Standards (Phase One) issued by Hong Kong Construction Industry Council
 - (b) Computer-Aided-Drafting Standard for Works Projects (CSWP) issued by Development Bureau of the HKSAR Government
 - (c) American Institute of Architects (AIA)'s G202-2013 Building Information Modeling Protocol Form.
 - (d) BS 1192:2007+A1:2016 Collaborative production of architectural, engineering and construction information. Code of practice.
 - (e) BS 8536-1:2015 Briefing for design and construction. Code of practice for facilities management (Buildings infrastructure).
 - (f) PAS 1192-2:2013 Specification for information management for the capital/delivery phase of construction projects using building information modelling
 - (g) PAS 1192-3:2014 Specification for information management for the operational phase of assets using Building Information Modelling.
 - (h) BS 1192-4:2014 Collaborative production of information Part 4: Fulfilling employers information exchange requirements using COBie Code of practice
 - (i) PAS 1192-5:2015: Specification for security-minded Building Information Modelling, digital built environments and smart asset management.
 - (j) Level of Development Specification Part I, November 2017 by BIMFORUM
 - (k) Construction Industry Council Production BIM Object Guide General Requirements issued by Hong Kong Construction Industry Council
 - (l) Family Library Interchange Program (F.L.I.P.) (http://www.aiab.org/index.php/flip-guideline)
 - (m) BIM Guide for Architectural Design (Version 1.0) by Architectural Branch, ArchSD [to be provided upon award of quotation]

6. Deliverables

- 6.1 The Consultant shall prepare, coordinate, produce and deliver to the Employer's Representative (ER) of ArchSD, Chief Architect/1 in accordance with Clause 10.1 the deliverables as detailed in the Brief and any other deliverables necessary for the completion of the Assignment, and circulate to relevant parties in sufficient copies.
- 6.2 Within 7 calendar days from the date of receipt of ER's instruction to proceed with the Assignment, the Consultant shall submit an organization chart showing the organization of the team members to be mobilized together with the particulars and curriculum vitae of the personnel together with a master programme for execution of the Assignment. The master programme shall be reviewed regularly and updated before progress meetings with the ER or whenever necessary.
- 6.3 The Consultant shall produce the following deliverables for comment and approval:
 - (a) BIM Objects
 The Consultant shall submit draft and final versions of BIM objects in compliance with the requirements and standards as stated in this Brief. The BIM objects should be of high quality in terms of naming, data structure, modelling techniques, etc. and should be so designed to operate in a Common Data Environment (CDE) in

accordance with the current standards and requirements of ArchSD. The BIM objects should be in such formats as specified by the Employer and as with the other existing BIM objects, and to be managed in object library with established data structure. The BIM objects should also be designed and modelled to enable drawing production without extra handling and modifying.

(b) BIM Object Sheets

The Consultant shall submit BIM Object Sheet for each BIM Object created, which shall contain important information of the object such as name, category, LOD, 3D geometry, 2D view and symbol, parameters, etc. as per the format in Annex B1-B6. The Consultant shall recommend on the establishment of BIM Object Register for effective management of the object library.

(c) Monthly Progress Reports

The Consultant shall attend monthly progress meetings with the ER and his BIM Support Team to indicate the progress of the Assignment and to include essential information as required by the ER.

(d) Final User Manual

The Consultant shall submit a Draft User Manual for the ER's comment. Upon completion of the draft manual, the Consultant shall arrange a presentation to ER and his BIM Support Team for consideration. The comments and suggestions by the ER shall be considered by the Consultant prior to its submission of Final User Manual.

Upon completion on the preparation of the Final User Manual, the Consultant shall prepare a final presentation to the ER and essential stakeholders of the ArchSD (i.e. BIMWG and such other stakeholder that the ER may invite to attend). The comments and suggestions made by ArchSD in this final presentation would be conclusive and the Consultant shall incorporate into the Final User Manual for submission to the ER for final approval.

The Final User Manual shall be used for internal knowledge sharing in the ArchSD. The Consultant should propose a format that is user-friendly and holistically consistent. Both the format and contents for the Final User Manual should be submitted to the ER and his BIM Support Team for comment and agreement prior to the submission of the draft User Manual.

Approval by the ER on the BIM Objects, BIM Object Sheets and the Final User Manual shall be conclusive evidence of Consultant's satisfactory completion of the scope of Assignment. The BIM Objects shall be submitted in soft copies by 2 sets of DVD/CD-ROM. The BIM Object Sheets and the Final User Manual shall be submitted in coloured hard copies (i.e. in 4 sets) properly bounded and soft copies (i.e. in 2 sets of DVD/CD-ROM).

(e) Presentation Materials

Presentation materials for the following is expected:

- (i) Monthly progress meetings (i.e. simple presentation for discussion purpose is sufficient. Elaborate presentation materials are NOT required).
- (ii) 2 formal presentations to ER, both in hard and soft copies, such as presentation power-point files.
- 6.4 For Quality Assurance, the Consultant is required to conduct self-checking for the BIM objects prior to submission. A comprehensive check form including the following items should be submitted for each BIM object for endorsement by ArchSD's BIM Support

Team:

Item	Content	Description
3D Geometry	File size	Is it too large?
	Visibility	Suitable setting?
	control	Hide unnecessary geometry on plan and elevation?
	Category	Is the BIM object of correct cetegory?
	Insertion point	Is the insertion point appropriate?
	Unit	Is unit of measurements correct?
	Maintenance	Does it require maintenance space?
	Space	Is space conformed to local practice?
	Parametric	Is it necessary to be parametric?
	Properties	Is parametric behavior as expected?
		Are the parameters enough for intended purpose?
	Host	Is the object hosted as appropriate?
Property /	Management	Are property classified in suitable grouping and
Parameter		naming?
	Information	Is all information necessary or exhaustive for the
		user?
2D-Symbolic	Symbol	Is the symbol conformed to local practice or client
Item (Symbol)		requirement?
	Size	Can the symbol follow the change of the 3D
	Dependency	geometry?
	Symbol Offset	If necessary, can the symbol offset adjustable for
		overlapping in BIM model?
	Symbol	Is the symbol orthogonal to the BIM object
	Orientation	geometry?
		If necessary, can the symbol orientation be
		controlled?
	Drawing	Is is readable when printing out?
a b c c c c c c c c c c	Production	
2D-Symbolic	Tag / Label /	Is the tag / label / annotation conformed to local
Item	Annotation	practice or client requirement?
(Tag / Label /		
Annotation)	P .	
	Drawing	Is it readable when printing out in appropriate
	Production	scale?

- 6.5 The Employer shall become the exclusive owner of all Deliverables. The Consultant shall draw the ER's attention to any Deliverables that are under license and any pre-existing copyright or patent on any Deliverables and any other restriction whatsoever affecting the Employer's use of the same. The Consultant, if required by the ER, shall establish the existence of any license, copyright, patent or restriction. The Consultant's attention is drawn that the created BIM Objects may be shared to third parties, e.g. Construction Industry Council in establishment of a common object library in the future.
- Apart from the general requirements stipulated in Clause 6.3 of this Brief, the Consultant shall propose for the ER's agreement the format or the contents of the Deliverables where necessary.

7. Professional Services to be provided by the Consultant

7.1 The duties of the Consultant shall include all of the tasks required to complete the

Assignment as described in this Assignment Brief (i.e. especially the requirements under Clause 4 of this Brief), producing the Deliverables as described in Clause 6 of this Brief and shall include, but not limited to, the following:

- (e) BIM Objects;
- (f) BIM Object Sheets;
- (g) Provide recommendations in BIM Object Register for effective management of the BIM Object Library;
- (h) Prepare draft and final version of User Manual and present to the ER;
- (i) Conduct 2 nos. of final presentation to ER (and stakeholders such as BIMWG members) on the Final User Manual;
- (j) Provide technical support including answering queries and if necessary, fine-tuning the objects, for a period of six months after acceptance of the objects.
- 7.3 The Consultant shall be required to attend presentations to ER and his BIMWG. The presentation shall include:
 - (a) Demonstration of the functions and features of the BIM Objects;
 - (b) There will be two formal presentations of the briefing by the Consultant after acceptance of the BIM Objects. The date and venue of these two presentations to be advised by the ER; and
 - (c) Prepare and submit information for the presentations before each meeting.
- 7.4 The Consultant is generally responsible for the following services:-
 - (a) The Consultant shall coordinate with project team members of the ER, attend all meetings including but not limited to progress meetings and co-ordination meetings, and prepare and provide all necessary correspondence reports, presentation materials and financial details of fees throughout the course of the Assignment as required by the ER;
 - (b) For the progress meetings and final presentations to ER, the Consultant is required to appoint necessary and appropriate professionals of their Consultancy Team to attend these meetings and presentations to the satisfaction of the ER;
 - (c) The Consultant shall complete all tasks required by the ER for successful execution and completion of this Assignment;
 - (d) The Consultant shall provide prompt response to comments and requests as-and-when required by the ER;
 - (e) The Consultant shall take note of the operation of a performance assessment system. The performance of the Consultant and his sub-consultants, if any, is assessed and reported on a regularly basis and upon completion of the Assignment; and
 - (f) To discharge the duties of the Consultant in this Assignment, the Consultant shall arrange at his own cost for all necessary provision, including hardware and software, to carry out the Assignment.

8. Programme of Implementation

- 8.1 The due date for commencement of the Assignment shall be directed by the ER but shall not be more than 7 calendar days from the date of Letter of Acceptance of the Assignment. The Assignment shall be completed within 10 months from the date for commencement.
- 8.2 The Consultant shall submit a master programme within 7 calendar days from the date of receipt of ER's instruction to proceed with the Assignment, detailing the dates of

submission of deliverables for agreement by the ER.

8.3 The Consultant shall follow the time frame of the various phases of the Assignment as specified below:

Stages	Schedule of Submission
Stage 1: • First draft of BIM objects	By the 35th calendar day from the date of commencement
 Stage 2: Second draft of BIM Objects Draft full set of BIM Object Sheets Draft User Manual Present to AB BIM Study Group 	By the 70 th calendar day from the date of commencement
Stage 3: Final BIM Objects Final BIM Object Sheets Final User Manual Present to BIMWG	By the 105th calendar day from the date of commencement
Maintenance Period (approx. 6 months)	By the 10 th calendar month from the date of commencement

The Consultant shall endeavour to ensure that the Assignment is carried out in accordance with the programme approved by the ER.

9. Variations and Other Commitments

- 9.1 No variation shall be allowed in this Assignment. The Consultant shall make all necessary allowance for all possible services and variation factors in connection with the timely and satisfactory completion of the Assignment in his Fee submission.
- 9.2 If the Consultant is of the view that the instructions by the ER (or his representative) falls outside the scope or deliverables of this Assignment, the Consultant shall inform the ER as soon as practicable together with the Consultant's grounds for justifications in writing for the ER's assessment. Upon consideration of all the circumstances of facts and the Consultant's application, the ER may amend his instructions or confirm his instructions in writing to the Consultant. The decision of the ER shall be <u>final</u>.
- 9.3 If the ER considers that there exists any variation or commitments essentially necessary for the satisfactory completion of the Assignment, the ER may consult the Employer and BIMWG to consider in holding separate meetings with the Consultant to arrange for agreement with the Consultant on a separate supplementary agreement.

<u>Note</u>: Clause 14.5 regarding Payment for Additional Services shall be read in conjunction with Clause 9.3. The decision of ER shall be in writing and shall be final.

10. Employer and Employer's Representative

- 10.1 The Employer means the Government of Hong Kong Special Administration Region. The ER shall be Chief Architect/1, ArchSD, or such other person as may be authorized by the Employer in writing and notified to the Consultant. The ER shall be responsible for the administration of the Assignment and may delegate any of his functions to his delegated officers in writing. If the Consultant is dissatisfied with a decision or instruction of any such officer(s) pertaining to the Assignment, the matter shall be referred to the ER for a ruling.
- During the course of the Assignment, the Consultant shall report directly to the ER. The Consultant shall comply with all reasonable instructions of the ER or his delegated officers. The ER (or his delegated officers) shall issue to the Consultant general instructions on procedures and shall supply such additional information as may be required for the completion of the Assignment.

11. Control of the Project and Assignment

- 11.1 The Consultant shall attend progress meetings or other meetings, if any, with the ER and other staff of the ArchSD during the course of the Assignment.
- 11.2 The meetings expected at this Assignment, include but not limited to, progress meetings, presentation/meetings as required with the BIM Support Team and 2 final presentations to ER and stakeholders upon completion of Assignment.

12. Information and Facilities Provided by the Employer

- 12.1 All available information relevant to the Assignment (e.g. BIM Guide for Architectural Design (Version 1.0)) will be provided to the Consultant. Relevant documents, reports, drawings and other background materials relevant to the projects could be retrieved by the Consultant from the Employer.
- One copy each of the relevant documents and drawings needed by the Consultant will be supplied free of charge by the ER. A charge may be made for additional copies.

13. Consultant's Office and Staffing

- 13.1 The Consultant shall maintain for the duration of this Assignment an office in Hong Kong under the control of a Project Team Leader or Project Director. He or she shall have adequate authority and sufficient professionals, technical and administrative supporting staff in all relevant disciplines to the satisfaction of the ER.
- 13.2 The Consultant shall provide and maintain a Consultancy Team, which must possess adequate and substantial knowledge and skills on BIM, building technology, building materials, building design, maintenance, computer simulation and relevant statutory requirements for the duration of this Assignment. The Consultancy Team has to comprise sufficient key staff. The minimum qualifications of the Consultancy Team, key staff and duties are specified in Appendix C. The Consultant shall propose to the ER the organization structure and the manpower resources deployed in this Assignment for approval.
- 13.4 The Consultant shall provide full details of all the staff responsible for the Assignment with their curriculum vitae and qualifications. The team should consist of an experienced professional in construction industry with recognized BIM qualifications and a minimum of 2 years working experience involving Revit families in Architectural discipline.

14. Payment

14.1 Remuneration of the Consultant for performance of the Assignment shall be the Lump Sum as stated by the Consultant in the Form of Quotation, subject to Clause 14.3 below.

Deliverables

Schedule of Payment (upon completion of deliverables)

Stage 1:

• First draft of BIM objects

• 10% of Awarded Sum

Stage 2:

- Second draft of BIM Objects
- Draft full set of BIM Object Sheets
- Draft User Manual
- Present to AB BIM Study Group

 30% of Awarded Sum (Cumulative 40% of Awarded Sum)

Stage 3:

- Final BIM Objects
- Final BIM Object Sheets
- Final User Manual
- Present to BIMWG

 50% of Awarded Sum (Cumulative 90% of Awarded Sum)

Maintenance Period

- 10% of Awarded Sum (Cumulative 100% of Awarded Sum)
- 14.3 Payment will be made upon the ER's written acceptance of the relevant deliverables submitted by the Consultant and the Consultant's performance of all its obligations due to the date of payment under the Assignment to the satisfaction of the ER, and the receipt of the Consultant's invoice. Should there be defects or amendments required of a deliverable, the Consultant shall amend and re-submit the deliverables at no extra cost or expense to the Employer within seven days of the notice being given by the ER until the ER accepts the deliverable.
- 14.4 The Consultant shall <u>not</u> be paid for any work which is not authorized by the Assignment or approved in writing by the ER.
- 14.5 <u>Payment for Additional Services</u> where it is determined by the ER that additional services shall be performed and that such additional services are not attributable to defaults on the part of the Consultant, payment for such services shall be either on a time charge basis or by means of a lump sum fee agreed between the Consultant and the ER before commencement of the additional services.

For the avoidance of doubt, provision of services as required by the ER in accordance with this Brief is NOT an Additional Services.

14.6 The Consultant is responsible to monitor the overall programme of the Assignment and is not allowed to claim for any payment of delays. The Consultant shall make all necessary allowance for all possible delay factors in his fee submission.

15. Consultation

15.1 The Consultant shall, as may be necessary for the successful completion of the Assignment, consult all authorities having rights or powers in connection with the Assignment and bodies or persons affected by the Assignment.

15.2 The Consultant shall consult all persons and entities listed in the Brief or who may be appointed by the Employer in regard to any particular aspect of the Assignment and in consequence thereof make such changes in the production of the Deliverables as may be approved by the ER.

16. Care and Due Diligence

- 16.1 The Consultant shall exercise all reasonable professional skill, care and diligence in the performance of all and singular the Assignment and, in so far as his duties are discretionary, shall act fairly between the Employer and any third party.
- 16.2 The Consultant shall, in respect of any work done or information supplied by or on behalf of the Employer, report to the ER any errors, omissions and shortcomings of whatsoever nature of which the Consultant becomes aware in the performance of the Assignment.
- 16.3 The Consultant 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 Consultant, his servants and agents, of all and singular the Assignment.
- 16.4 In the event of any errors or omissions for which the Consultant is responsible and as a result of which re-execution of the Assignment is required, the Consultant shall, without relieving any liability and obligation under this Assignment, at his own cost re-execute such Assignment to the satisfaction of the ER.

17. Instructions and Procedures

The Consultant shall comply with all reasonable instructions of the Employer or the ER. The ER shall issue to the Consultant general instructions on procedure and shall supply such additional information and standard Government printed forms as may be required. The Consultant shall follow the Employer's procedures so far as possible and shall obtain the prior approval in writing of the ER to major departures from such procedures. Nothing in this Clause shall be deemed to affect the responsibility of the Consultant in connection with the Assignment.

18. Ethical Commitment

- 18.1 The Consultant shall inform his employees and his agents who are engaged either directly or indirectly on the formulation and implementation of a Government project that the soliciting or accepting of advantage as defined in the Prevention of Bribery Ordinance is not permitted. The Consultant shall also caution his employees and his agents against soliciting or accepting any excessive hospitality, entertainment or inducements which would impair their impartiality in relation to the Government projects.
- 18.2 The Consultant and his employees shall observe the ethical commitments promulgated in ETWB TC(W) No. 3/2004 and 3/2004A in respect of "Confidentiality", "Prevention of bribery", "Declaration of ethical commitment" and "Acknowledgement of being notified of the ethical requirements".
- 18.3 The Consultant shall submit a signed declaration in a form specified in <u>Appendix D</u> to confirm compliance with the ethnical commitments requirements upon appointment and when submitting an invoice. If the Consultant fails to submit a duly signed and completed declaration, the Employer shall be entitled to withhold payment until such declaration is submitted and the Consultant shall not be entitled to interest in that period.

19. Declaration of Interests

- 19.1 On appointment and during the course of this Assignment, the Consultant must declare any interest if it is considered to be in real or apparent conflict with the Assignment. The Consultant shall not undertake any services, which could give rise to conflict of interest, except with the prior approval of the ER which approval shall not be unreasonably withheld.
- 19.2 In any case, the Consultant 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 Consultant is providing a service to the Employer.
- 19.3 The Consultant shall submit a signed declaration in a form specified in Appendix E to confirm compliance with the conflict of interest avoidance and debarring requirements upon appointment and when submitting an invoice. If the Consultant fails to submit a duly signed and completed declaration, the Employer shall be entitled to withholding payment until such declaration is submitted and the Consultant shall not be entitled to interest in that period.

20. Assignment Proposal

20.1 The Tenderer shall submit a Technical Proposal with supporting documents as stipulated in Clause 1 to 21 of the Brief

Technical Proposal

(a) Organization, Resources and Manpower

The Tenderer shall submit the following information:

- Staff Organization Chart;
- Relevant experience and qualification of key staff;
- Responsibilities and degree of involvement of key staff;
- Adequacy of manpower input:
- Relevant organizational structure, experience and qualification of subconsultant (if applicable).

(b) <u>Response to the Brief</u>

The Tenderer shall submit the following information:

- General understanding on the needs and problems of the Assignment;
- General understanding of the Assignment objectives;
- General understanding on the scope of each of the deliverables;
- General understanding on the constraints and key issues of the Assignment.

(c) <u>Tenderer's Experience</u>

The Tenderer shall submit the following information:

- Consultant's Experience (in Hong Kong & elsewhere) in Construction Projects;
- Consultant's Experience on **BIM Object Creation in Architectural Discipline** in preceding 5 years;

(d) <u>Methodology and Programme</u>

The Tenderer shall submit the following information:

• Methodology to show the preliminary idea about the approach to this Assignment. It should also include examples of the Company's deliverables

- that would help evaluation of the standard of services provided by the Consultant;
- General understanding of the Programme.
- Full requirements of the Technical Proposal are included in the attached "Guidelines for Preparation of Technical Proposal and Fee Proposal" under Annex 1.

20.3 Fee Proposal

The Fee Proposal for the Assignment shall be a lump sum fee quotation in Hong Kong dollars. The fee quotation for the Assignment shall be deemed to include the total cost for full range of the services specified in this Brief, including the cost of all incidentals of labour and materials, cartage, plant, tests, the giving of notices and payment of fees required to be given or paid by any enactment or any regulation or by-law of any local or other fully constituted authority and any public body or company, all graphic, printing and production materials, and the cost and expenses of all other things and matters necessary for the proper carrying out and completion of Assignment.

- 20.4 The Fee Proposal shall include the following documents:
 - (a) The Fee Quotation duly completed, signed and dated (original and duplicated copy) by the authorized signatory of the tender.
 - (b) Form of Tender (Quotation Contract), duly completed, signed and dated, as specified in <u>Annex 2</u> of the Conditions of Quotation and the letter of invitation; and
 - (c) Summary of Tender (Quotation Contract), duly completed, signed and dated as specified under Annex 3 of the Conditions of Quotation and the letter of invitation.
- 20.5 Submission of the Fee Proposal must be submitted in a sealed envelope separate from the Technical Proposal. Without prejudice to the other terms and conditions in the Conditions of Quotation, the Brief and the letter of invitation that provides for invalidating a tender submitted by a Tenderer, the failure of a Tenderer to comply with the "Two-Envelope System" shall render his tender as invalid.
- 20.6 The Government does not bind itself to accept the lowest quotation or any quotation, and reserves the rights to negotiate with any consulting firms on the terms of the offer.
- 20.7 Subject to the Government's right to reject bids which are considered to have been priced unreasonably low, the selection of tenderers will be determined on the basis of a combined assessment of the Technical Proposal and Fee proposal. Full requirements of the Technical Proposal and Fee Proposal are included in the attached "Guidelines for Preparation of Technical Proposal and Fee Proposal" under Annex 1.

21. Submission of Technical Proposal and Fee Proposal

- 21.1 The Technical Proposal and Fee Proposal shall be enclosed in sealed envelope as specified below:-
 - (a) One envelope containing 2 copies of the Fee Proposal duly completed, signed and dated. This envelope shall be marked "Creation of BIM Objects FEE PROPOSAL."
 - (b). One envelope containing 4 copies of the Technical Proposal duly completed, signed and dated. This envelope shall be marked "Creation of BIM Objects TECHNICAL PROPOSAL."
 - (c). The envelopes submitted in pursuance to (a) and (b) above shall then be enclosed in

- a covering envelope. This covering envelope shall be marked: "Tender Submission for Creation of BIM Objects (Quotation Contract No. 15/2018/AB1)."
- 21.2 In the event of a consultant firm discovering an error in his assignment proposal after it has been deposited, the ER should be informed in writing. An amendment submitted shall be accepted and shall form part of the assignment proposal, provided that it shall have been deposited in the manner described in Clause 21.1 above and submitted in accordance with Clauses 21.3 and 21.4. All envelopes containing such amended documents must be clearly marked "With Amendment".
- 21.3 The covering envelope as specified at Clause 21.1(c) shall be addressed to Chief Architect/1, Mr. Thomas WAN, Architectural Services Department and placed in the Architectural Services Department Tender Box located at Room 4101, 41/F, Queensway Government Office, 66, Queensway, Admiralty before 12:00 noon on 14 November 2018.
- 21.4 If a black rainstorm warning or tropical cyclone warning signal No. 8 or above is hoisted between 9.00 am and 12.00 noon on 14 November 2018, the closing time for submission will be postponed to 12.00 noon on the first working day after the black rainstorm warning signal has ceased to be in effect or the tropical cyclone warning signal No. 8 has been replaced by a lower signal.
- 21.5 Late submissions or submissions in other formats or by other means or that do not comply with the conditions above will not be accepted for evaluation.
- 21.6 The Employer reserves the right, in its absolute discretion, not to invite any of the bidders which have submitted proposals in response to this invitation, to enter into a written agreement for the project. Submission of any proposal should be made on the understanding that the Employer will not be liable to pay any costs arising out of its preparation and submission.

List of Annexes

- Annex 1 Guidelines for Preparation of Technical Proposal and Fee Proposal
- Annex 2 Form of Tender (Quotation Contract)
- Annex 3 Summary of Tender (Quotation Contract)

Creation of BIM Objects

Guidelines for Preparation of Technical Proposal and Fee Proposal

The **Technical Proposal** shall be limited to 20 pages in length <u>excluding drawings and appendices etc</u>. It shall be inexpensively bound with plain cover and shall be of A4 size. The Proposal shall be divided into sections under the main headings given below. Sub-sections shall be generally as described below, with variations to suit the type of consultancy and nature of a particular project and shall be specified in the invitation to submit proposals.

1. Submission of Technical Proposal and Fee Proposal

- (a) The Technical Submission as required in this **Technical Proposal** under the "**Two Envelope System**" is a **Marking Scheme Submission**.
- (b) The Technical Submission shall demonstrate compliance and general understanding on the essential requirements of the Assignment Brief. Demonstration on compliance and general understanding of the essential requirements is a PREREQUISTE to eliminate any non-conforming tenders before evaluation on the Fee Quotations.

<u>Note</u>

The Technical Proposal shall be vetted and assessed by the Tender Assessment Panel assigned and chaired by the Chief Architect/1 of the ArchSD. The Tender Assessment Panel shall consist of members of the relevant discipline or branches of the ArchSD under the Building Information Modelling Working Group (BIMWG) or such other person the Chief Architect/1 may consider as suitable and appropriate to serve as a member of the Tender Assessment Panel. The Tender Assessment Panel shall be established and set up prior to the opening of the Technical Submission and Fee Quotation.

2. Assessment Criteria

- (a) The assessment shall be based on the technical knowledge and relevant job references etc. of the Tenderer in the Technical Proposal and the Fee Proposal. The weights for the technical proposal and fee proposal are 70% and 30% respectively.
- (b) The technical knowledge and experience should refer to the consultant's experience, staff qualifications, technical knowledge and past performance on similar projects within a period of maximum 10 years.

All quoted job experience and past performance etc. should be supported with relevant documents or evidence. The supporting documents should be either in printed copy or softcopy in pdf format or web link. Any proposal without supporting evidence may not be considered. The Tenderer may consider to include such information as drawings or appendices etc. not counted within the 20 pages maximum Technical Proposal.

- (c) Assessment and marking of the Technical Proposal shall be in accordance to the following criteria and weighting:-
 - (i) 25% Organization, Resources and Manpower
 - (ii) 20% Response to the Brief
 - (iii) 30% Tenderer's Experiences
 - (iv) 25% Methodology and Programme

3. Technical Proposal

3.1 Organization, Resources and Manpower

The Tenderer's submission should demonstrate their general understanding (and in particular) of the requirements in Clauses 2, 4, 6, 7, 8 & 13.

The Tenderer should include the sub-sections on:-

- (a) Staff organization chart.
- (b) Relevant experience and qualifications of key staff.
- (c) Responsibilities and degree of involvement of key staff.
- (d) Adequacy of manpower input; and
- (e) Relevant organizational structure, experience and qualification of sub-consultant (if applicable).

3.2 Response to the Brief

The Tenderer's submission should demonstrate their general understanding (and in particular) of the requirements in Clauses 1, 2, 4, 5, 6, 7 & 8.

The Tenderer should include the sub-sections on:-

- (a) General understanding on the needs and problems of the Assignment.
- (b) General understanding of the Assignment objectives.
- (c) General understanding, inclusion and realistic estimate on the scope of each of the deliverables.
- (d) General understanding on the constraints and key issues of the Assignment.

3.3 Tenderer's Experiences

The Tenderer's submission should demonstrate their general understanding (and in particular) of the requirements in Clauses 1, 2, 4, 5, 6, 7, 8 & 11.

(a) Consultant's Experience (in Hong Kong & elsewhere) in Construction Projects

Note:

- (1). For the avoidance of doubt, the construction project submitted shall be multistorey building project (in Hong Kong & elsewhere) that may be completed, under design or construction.
- (b) Experience in BIM Object Creation in Architectural Discipline in preceding 5 years

Note:

- (1). For the avoidance of doubt, teaching and training experience in BIM object creation is also acceptable.
- (2). Experience in Government, public sector, private sector etc. are all inclusive.

3.4 Methodology and Programme

The Tenderer should include the sub-sections on:-

(a) General understanding of Methodology in relation to Clause 1, 2, 4, 5 & 6 of the Brief only.

Note:

- (1). This part of Technical Proposal shall cover a maximum of 20 marks.
- (b) General understanding of the Master Programme in relation to Clause 8 of the Brief only.

Note:

(1). This part of Technical Proposal shall cover a maximum of 5 marks.

4. Non-Conforming Tenders

Tenderers shall take note on this Clause 3 under these Guidelines regarding non-conforming tenders. If the Technical Submissions as specified in Clause 2 above by the Tenderer fails to demonstrate compliance to the requirements as specified under Clauses 3.1, 3.2, 3.3 <u>OR</u> 3.4 above of these Guidelines, then such tender shall be considered as a non-conforming tender. Fee Quotation of a non-conforming tender shall not be evaluated or considered.

5. Two Envelopes System

Technical Submission shall comply with all the requirements as specified under Clauses 3.1, 3.2, 3.3 and 3.4 above of these Guidelines. Compliance of all the requirements as specified in Clauses 3.1, 3.2, 3.3 and 3.4 above of these Guidelines is a **PREREQUISITE** to eliminate non-conforming tenders before the 2nd Envelope on Fee Quotation would be evaluated.

6. Fee Quotation

Once the Technical Submissions are assessed and demonstrated to be in compliance with tender requirements (i.e. not non-conforming tender), the Fee Quotation will be opened and assessed. The weights of the Technical Proposal and Fee Proposal are 70% and 30% respectively.

7. Employer not bound to accept the Tenderer with the lowest Fee Quotation

Tenderers shall take note that Employer is not bound to accept the tender with the lowest tender price or any tender and may cancel the tender exercise on public interest ground. In considering the acceptance of a tender, the Employer may take account of all relevant circumstances including the following:-

- (a) The Technical Submission fails to demonstrate the required understanding and compliance of the essential requirements of the Consultancy Brief and the requirements under Clauses 3.1, 3.2. 3.3 **OR** 3.4 above of these Guidelines.
- (b) The Tenderer's capability (financial, commercial and technical) in undertaking the contract. For the avoidance of doubt, matters such as bankruptcy, false declaration, lack of integrity, and acts of dishonesty, the latest available information and reports reflecting serious shortfall in performance and the latest available information and reports relating to serious safety or environmental incident may be taken into account in determining whether a tenderer is fully capable of undertaking the contract.

8. Assessment Criteria and Weighting

- 8.1 The weights of Technical Proposal and Fee Proposal are 70% and 30% respectively.
- 8.2 Assessment and marking shall be in accordance with the following criteria and weighting.

Table: Summary of Assessment Criteria and Weighting for submission of Technical Proposal:

	****		联制剂	Weighting
				Sub-total
(a)	Org	anization, Resources and Manpower		25%
(**)	(i)	Staff organization chart.	5%	20,0
	(ii)	Relevant experience and qualifications of key staff.	5%	
	(iii)	Responsibilities and degree of involvement of key staff.	5%	
	(iv)	Adequacy of manpower input.	5%	
	(v)	Relevant organizational structure, experience and qualification of sub-consultant (if applicable).	5%	
(b)	Resp	oonse to the Brief		20%
	(i)	General understanding on the needs and problems of the Assignment.	5%	
	(ii)	General understanding of the Assignment objectives.	5%	
	(iii)	General understanding on the scope of each of the deliverables.	5%	
	(iv)	General understanding on the constraints and key issues of the Assignment.	5%	
(c)	Tend	derer's Experiences		30%
	(i)	Consultant's Experience (in Hong Kong & elsewhere) in Construction Projects	10%	
	(ii)	Consultant's Experience in BIM Object Creation in Architectural Discipline in preceding 5 years	20%	
(d)	Metl	hodology and Programme	er.	25%
	(i)	General understanding of Methodology	20%	
	(ii)	General understanding of the Master Programme	5%	
				Total
				100%

THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION ARCHITECTURAL SERVICES DEPARTMENT ARCHITECTURAL BRANCH

QUOTATION CONTRACT NO. 15/2018/AB1

Creation of BIM Objects

FORM OF TENDER (QUOTATION CONTRACT)

<u>NOT</u>	<u>ES:</u>					
1)	If a Tender is being made by a partnership or an unincorporated body, the names and residential address of all partners should be given in the spaces provided below.					
2)		In all cases, the Tenderer must give the number and date of the business registration certificate here:-				
	Number:	Date:				
	To: C	ief Architect/1, Architectural Services Department				
	R	om 4101, 41/F, Queensway Government Office, 66, Queensway, Admiralty.				
1.	document	Having inspected the Conditions of Quotation, Assignment Brief, the associated tender documents, annexes and appendices, I / we offer to execute, complete and maintain the whole of the Assignment for the lump sum of Hong Kong Dollars:				
		(\$)				
	Or such si	n as may be ascertained in accordance of the Contract.				
2.		take if my/our Tender is accepted to complete the Assignment comprised in Contract within the time stated below:-				

- - Time for Completion: about 10 months (including general holidays)
- 3. I/We agree to abide by this Tender for the period of 90 days from the date fixed for receiving the same and it shall remain binding upon me / us and may be accepted at any time before the expiry of that period.
- 4. This Tender, together with the written acceptance thereof by the Employer subject to the provisions of Clause 3 hereof, shall constitute a binding contract between us.
- 5. I/We understand that the Employer is not bound to accept the lowest of any tender it may receive.

Sign	ature						
In th	e capacity of						
Duly	Ouly authorized to sign Tender for and on behalf of @						
Trad	ing in Hong Kong under the style of *						
Regi	stered address of firm:						
Date	:						
Nam	e and Signature of Witness:						
Add	ress of Witness:						
Nam	e(s) of the sole proprietor / partners#	Residential address of the sole proprietor / partners#					
3. Y .							
Note							
#	Delete as necessary						
@	In the case of an incorporated company, insert the name of the Company.						
	In case of a sole proprietorship or a partnership, insert the name(s) of the sole proprietor or all the partners as the case may be.						
*	In the case of a sole proprietor or a partnership, insert the name of the firm.						
	In the case of an incorporated company, insert the registered office address of the incorporated company.						
	In the case of a sole proprietorship or post of the firm in Hong Kong.	In the case of a sole proprietorship or partnership, insert the principle place of business of the firm in Hong Kong.					

SUMMARY OF TENDER (QUOTATION CONTRACT)

QUOTATION CONTRACT NO: 15/2018/AB1

Creation of BIM Objects

FOR

THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION

	Hong Kong Dollars (\$)	cents
1). Services as specified in the Brief and elements breakdown as in Clause 4.1:		
I. Item A (Total 11 nos. of BIM objects)		
II. Item B (Total 1 no. of BIM object)		
III. Item C (Total 9 nos. of BIM objects)		
IV. Item D (Total 2 nos. of BIM objects)		
V. Item E (Total 4 nos. of BIM objects)		
VI. Item F (Total 8 nos. of BIM objects)		
2). Other items considered necessary for the satisfactory completion of the Assignment, e.g. provision of plug-in or other software		
Total Amount Carried to Form of Tender:		
3). Optional Items as specified in Clause 4.1 – Amount NOT carried to Form of Tender		
VII. Item B – Optional item	·	
VIII. Item C – Optional item 1		
IX. Item C – Optional item 2	are de Maria	

Authorized Signature:		<u> </u>	 		
Name (IN BLOCK LETTER)	·		 		
Name & Stamp of Company:					
Telephone:			 		
Date:			 		

List of Appendices

Appendix A1-A6 2D presentation of BIM Objects

Appendix B1-B6 Sample BIM Object Sheets

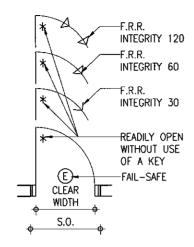
Appendix C Qualification requirements of the Consultancy Team

Appendix D Declaration by Consultant on Compliance with the Ethical Commitments

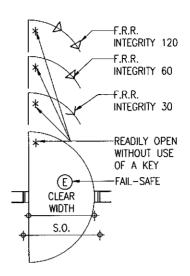
Requirements

Appendix E Declaration by Consultant on Compliance with the Conflict of Interest

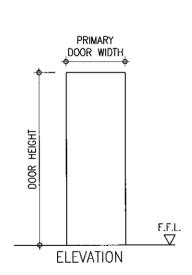
Avoidance and Debarring Requirements

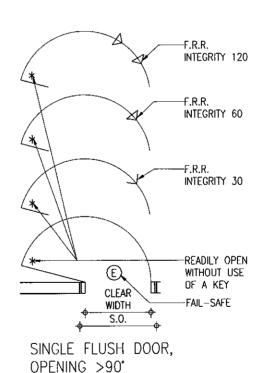


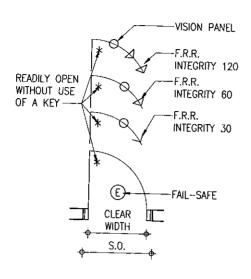
SINGLE FLUSH DOOR



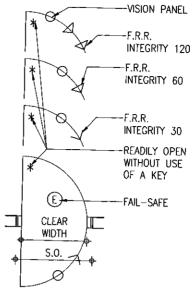
SINGLE FLUSH DOOR DOUBLE ACTION



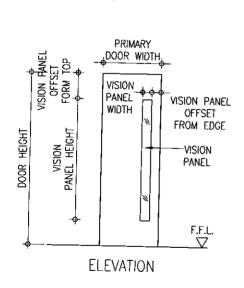


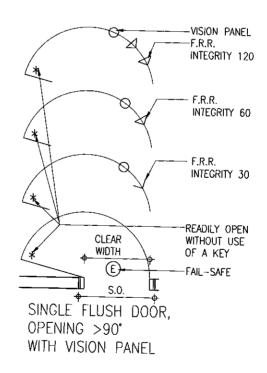


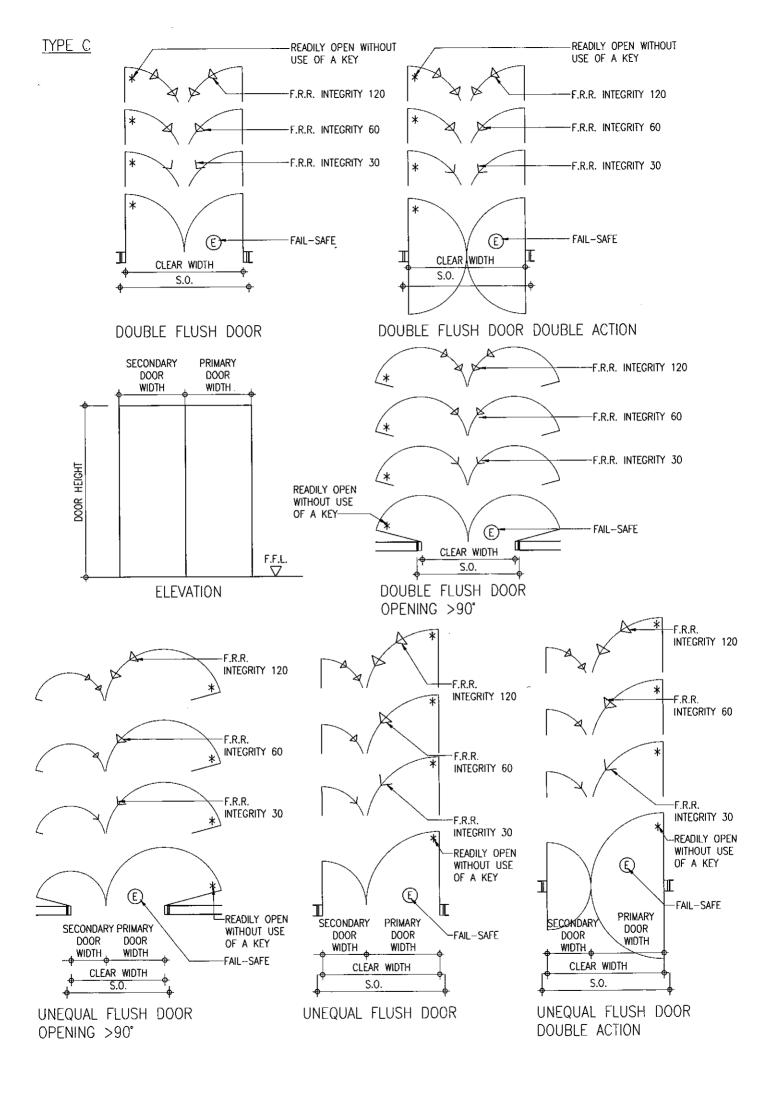
SINGLE FLUSH DOOR WITH VISION PANEL

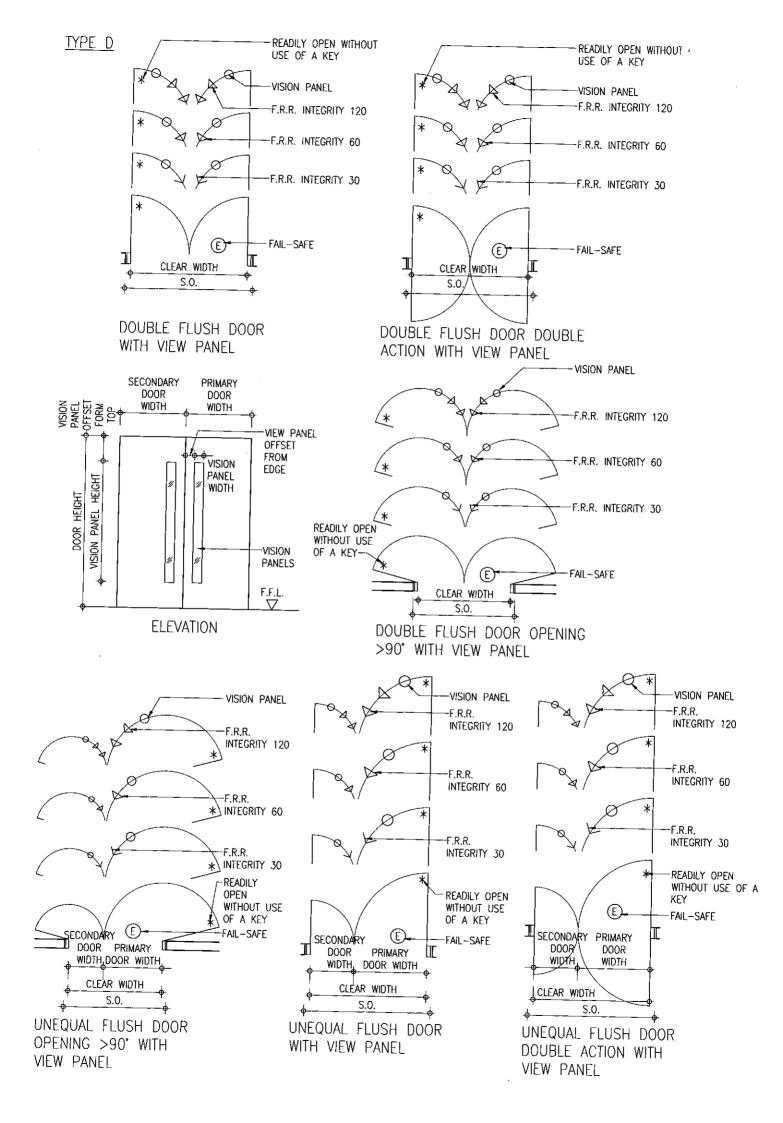


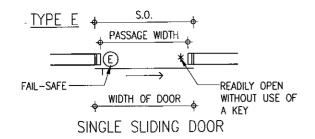
SINGLE FLUSH DOOR DOUBLE ACTION WITH VISION PANEL

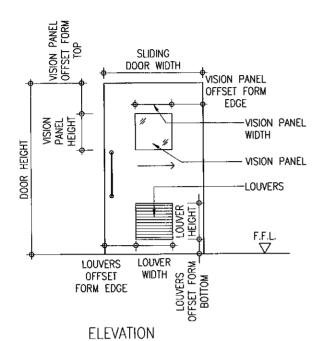


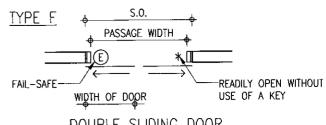




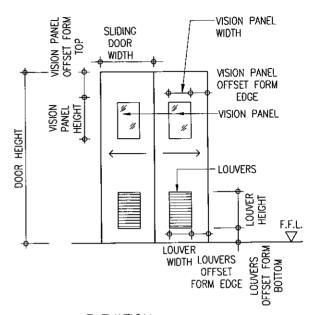




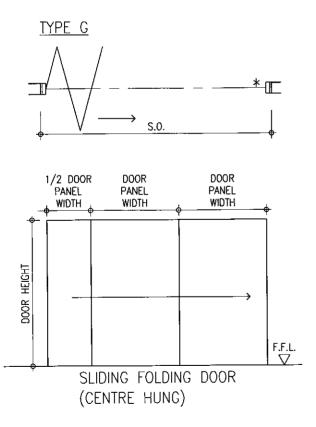


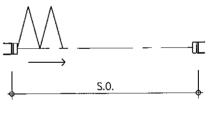


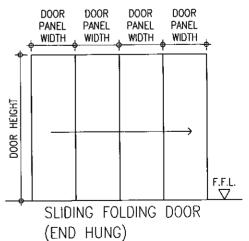
DOUBLE SLIDING DOOR

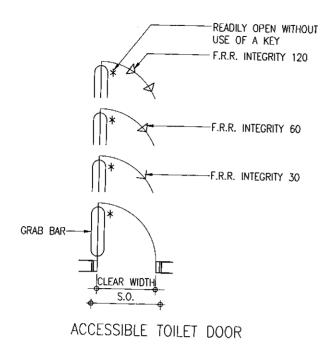


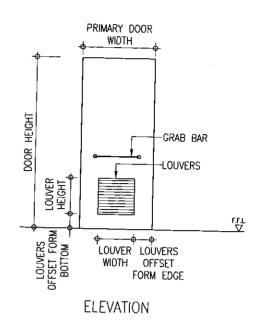
ELEVATION

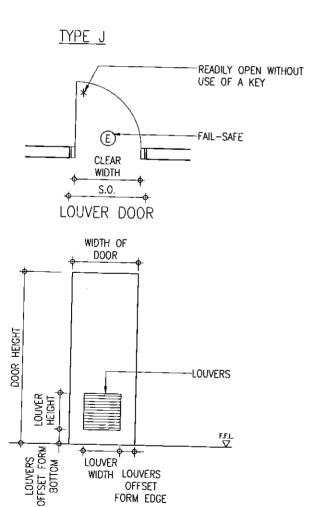




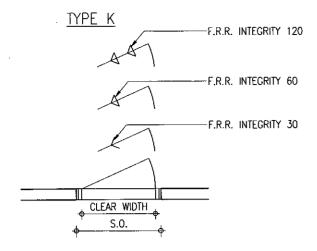




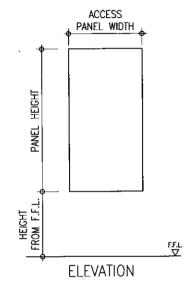




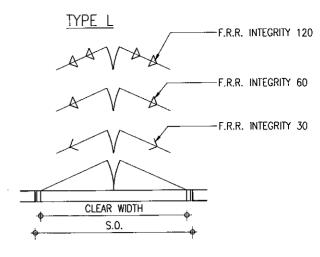
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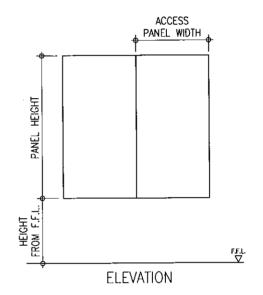
SINGLE ACCESS PANEL



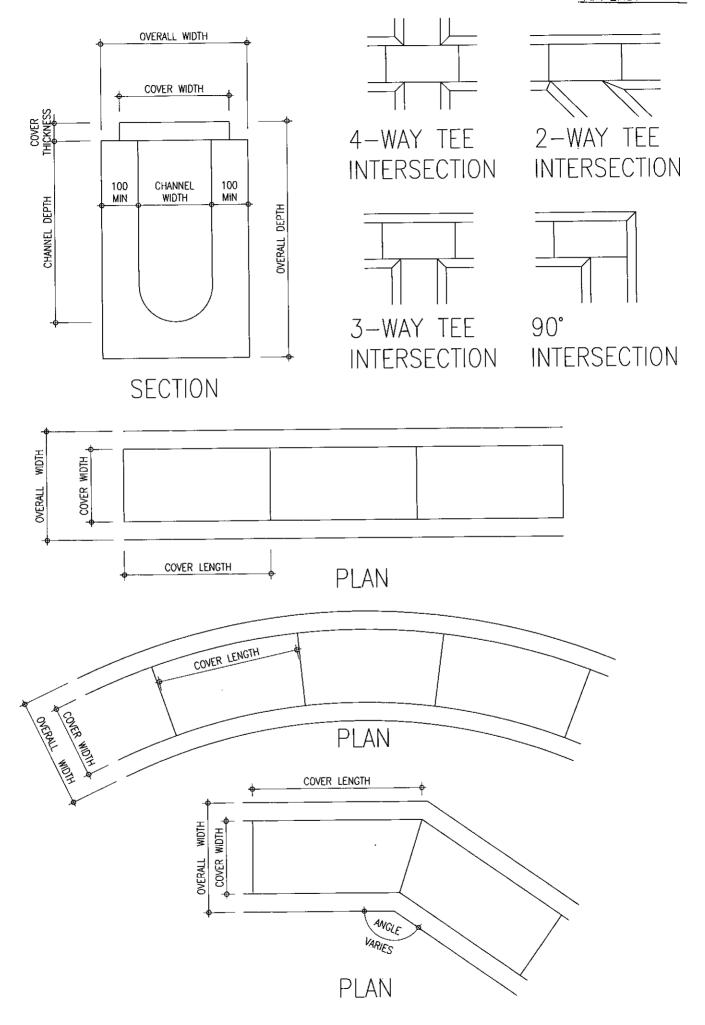
* ACCESS PANEL MUST IN DOOR CATEGORY



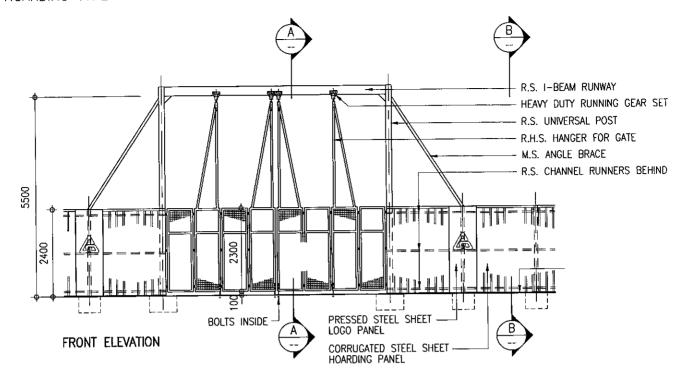
DOUBLE ACCESS PANEL

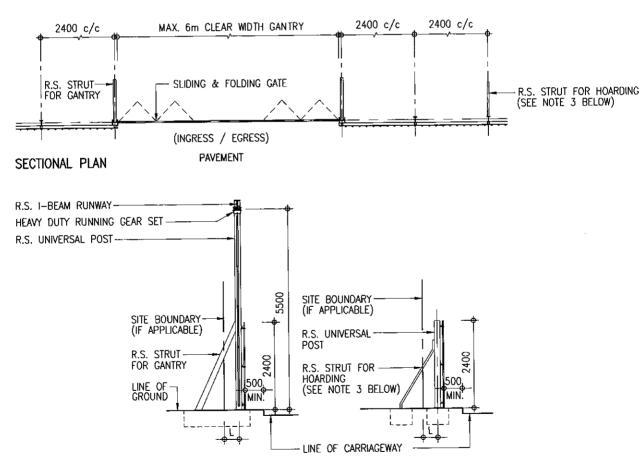






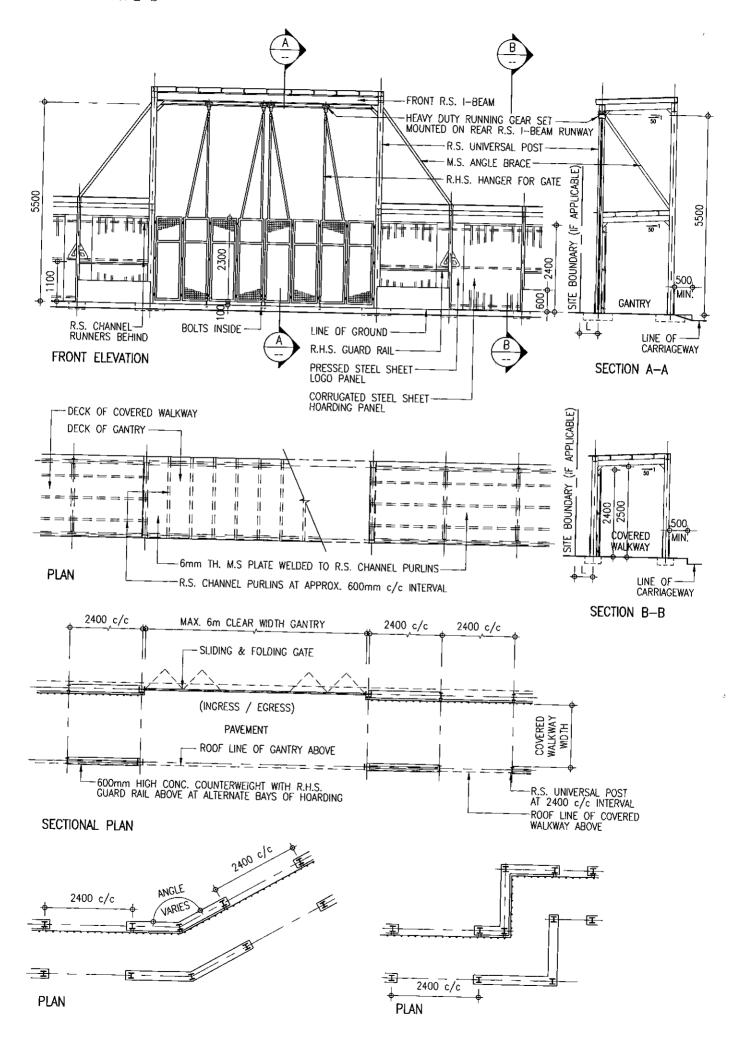


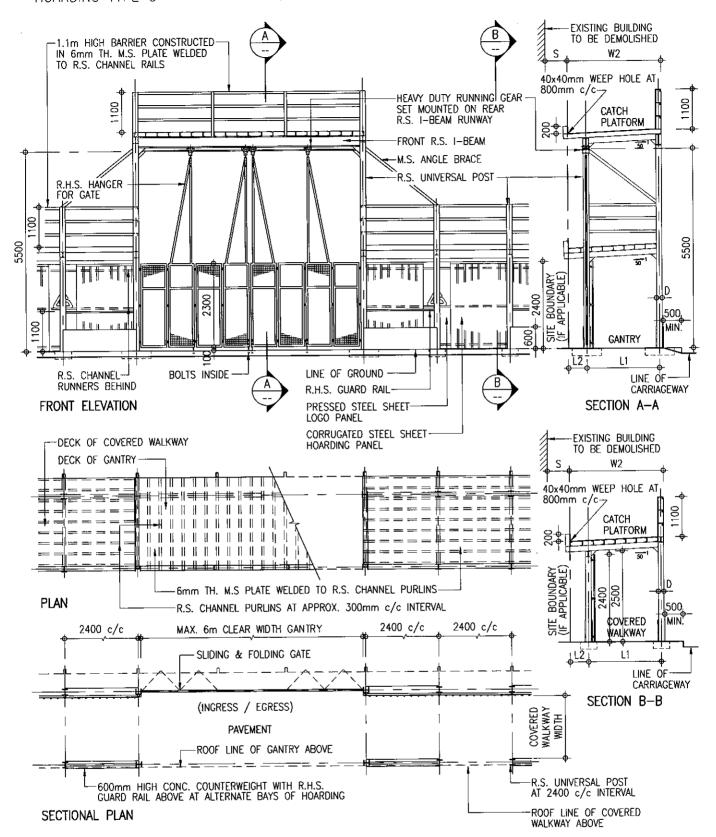


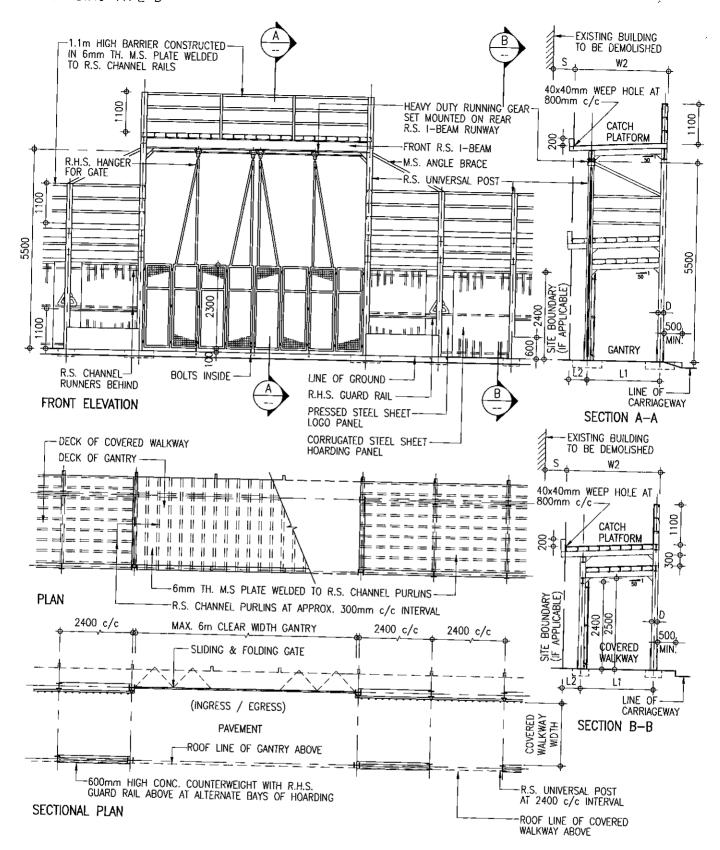


SECTION A-A

SECTION B-B

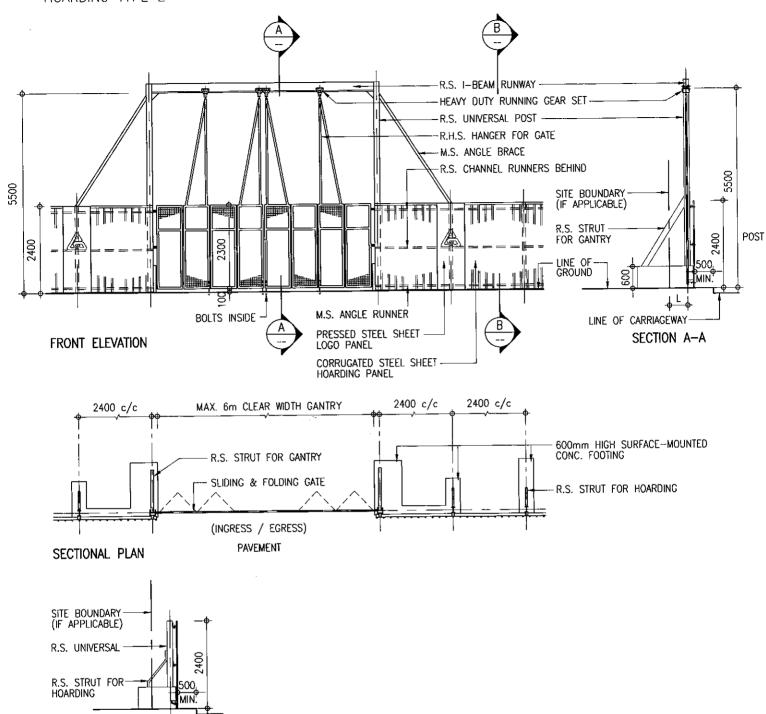


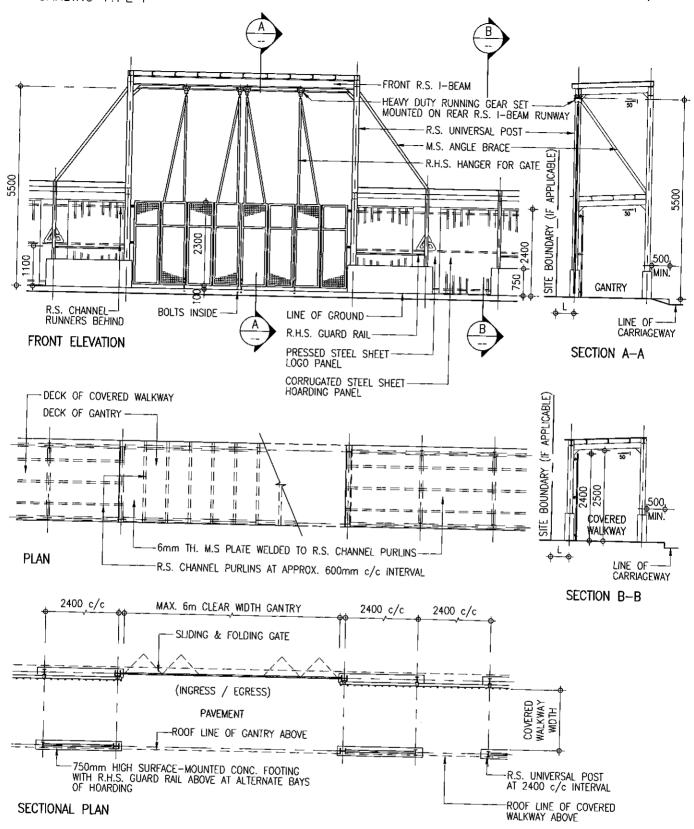


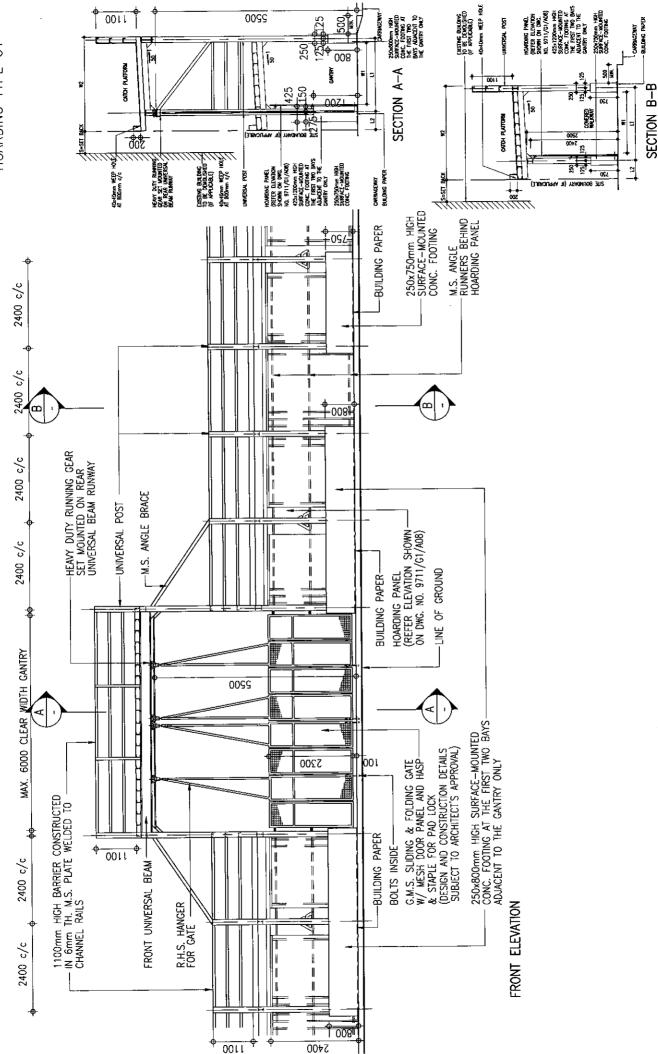


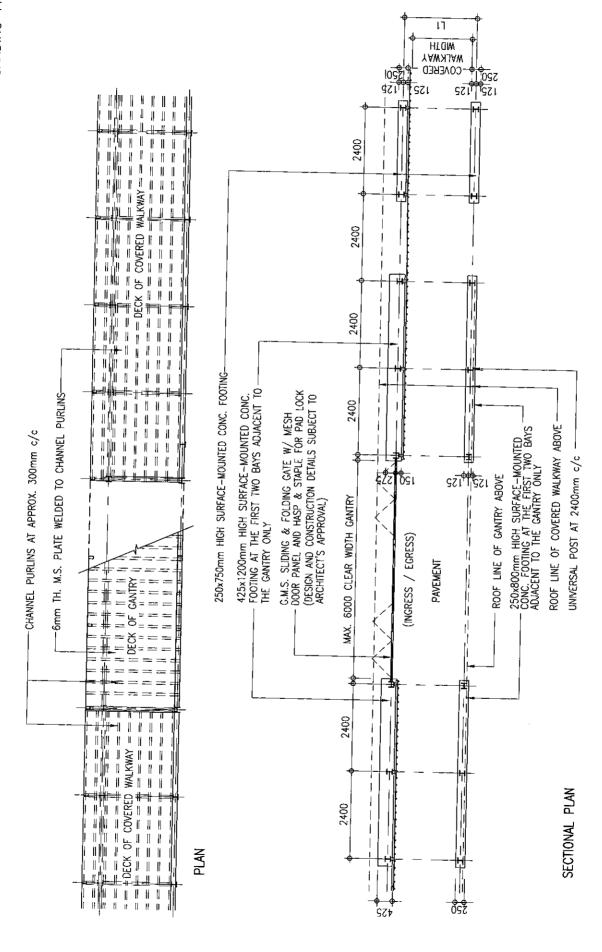
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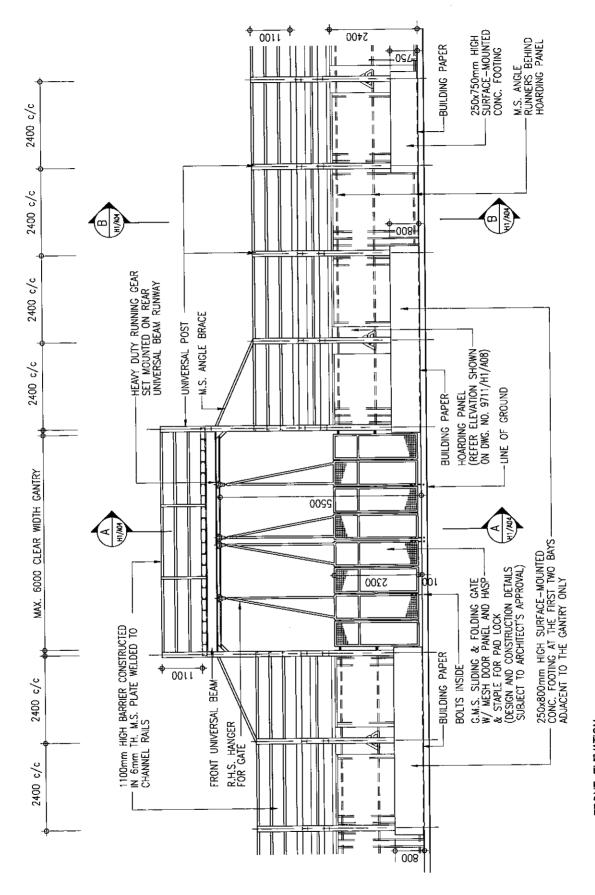
SECTION B-B



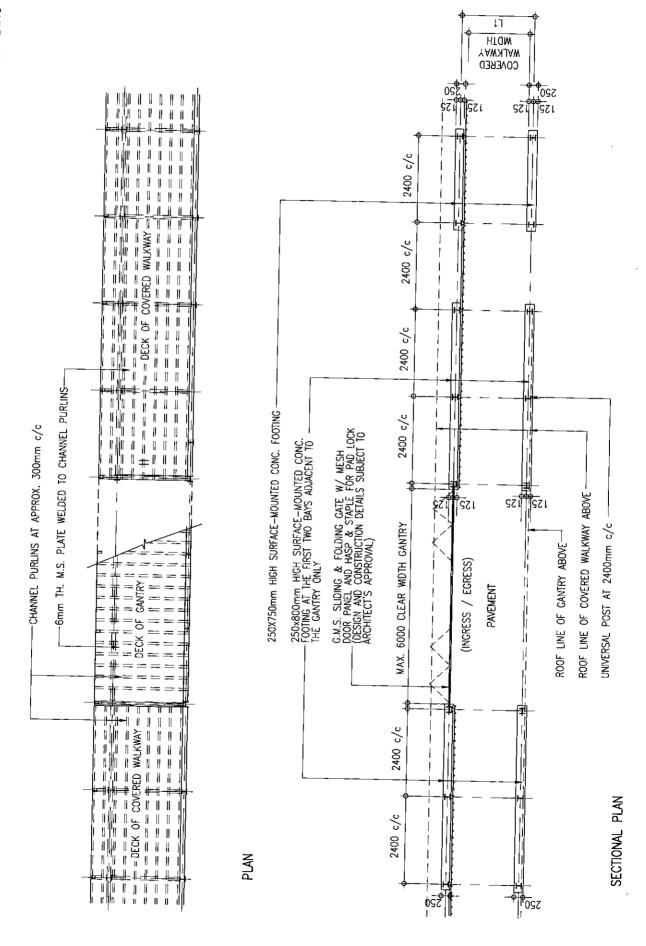


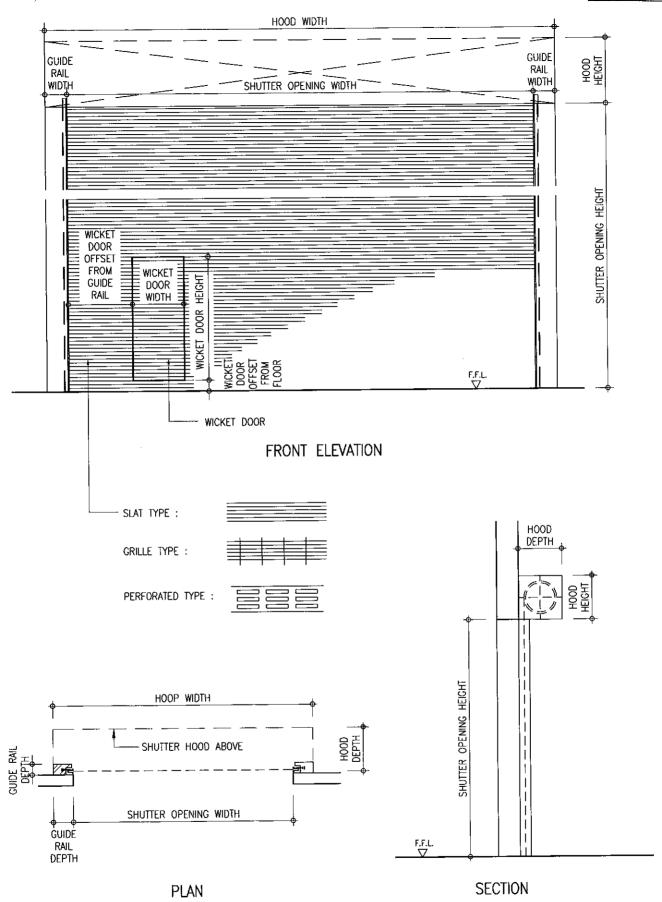




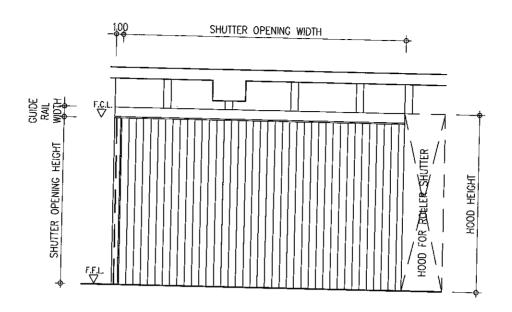


FRONT ELEVATION

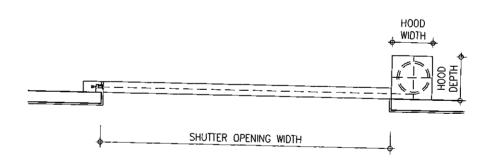




VERTICAL ROLLER SHUTTER

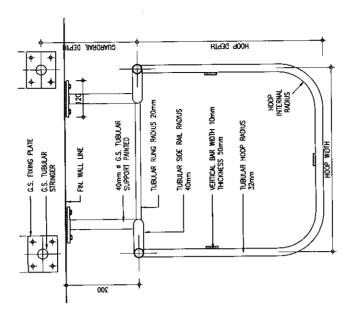


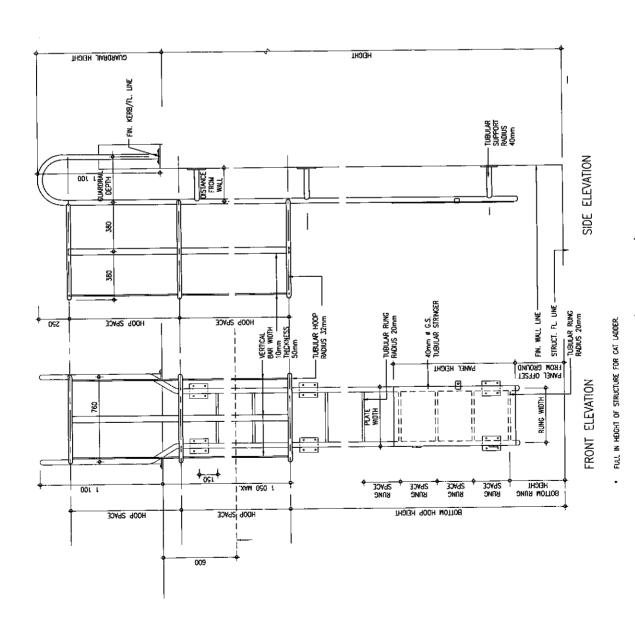
FRONT ELEVATION



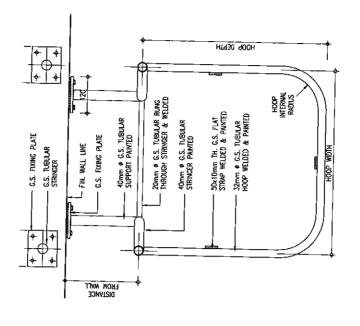
PLAN

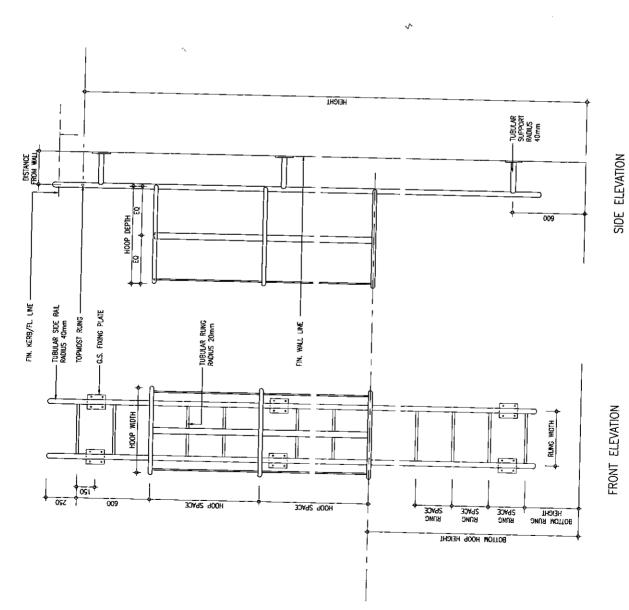






TYPE A (ELEVATION)





TYPE B (ELEVATION)

C.S. FIXING PLATE

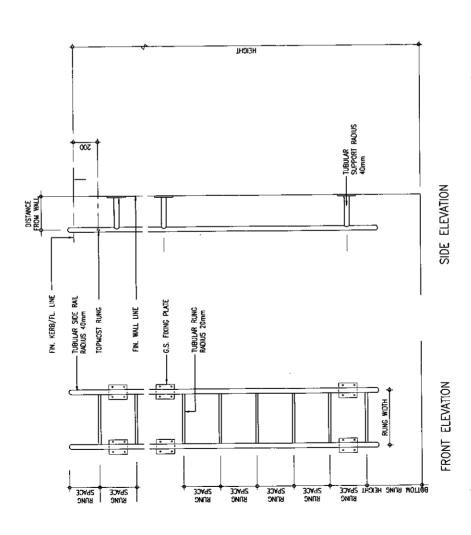
TUBULAR SIDE RAL

RADIUS 20mm

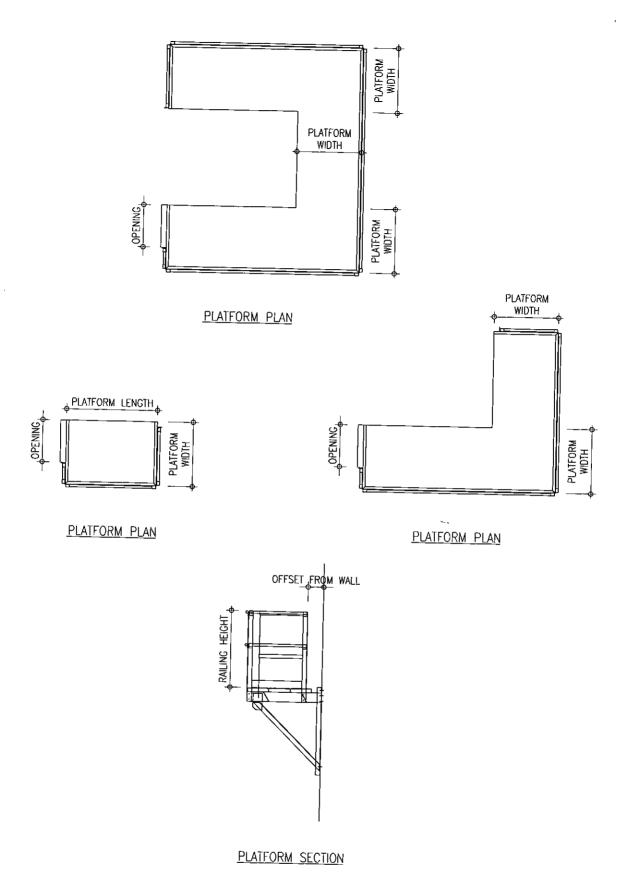
TUBUJAR RUNG

TUBUJAR RUNG

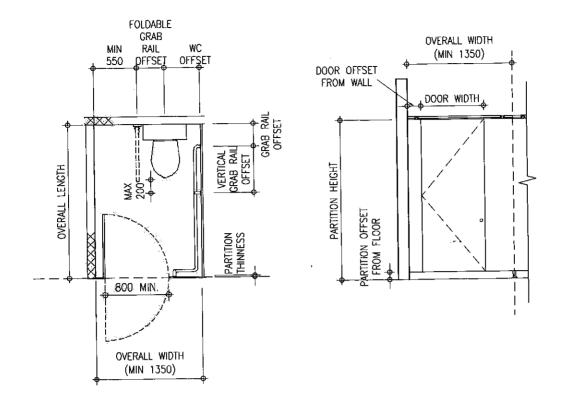
TYPE C (PLAN)



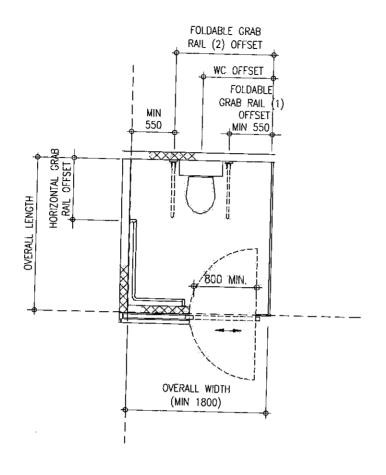
TYPE C (ELEVATION)



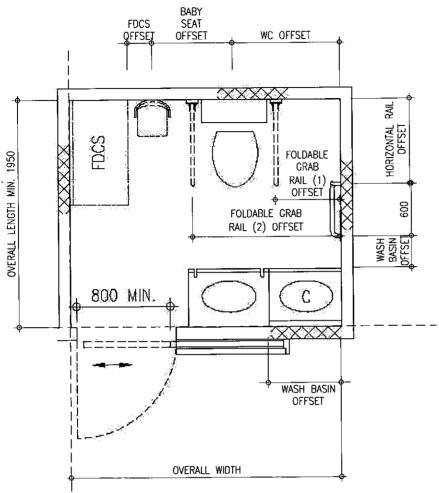
INTERMEDIATE PLATFORM



	ITEMS	PARAMETER
	HORIZONTAL GRAB RAIL, DIA. 32-40 AT 725-750 H.	HORIZONTAL GRAB RAIL HEIGHT HORIZONTAL GRAB RAIL WIDTH HORIZONTAL GRAB RAIL LENGTH
====1	FOLDABLE GRAB RAIL, 725-750 H.	1. FOLDABLE GRAB RAIL HEIGHT
	VERTICAL GRAB RAIL, DIA.32-40 & L≥600	1. VERTICAL GRAB RAIL HEIGHT

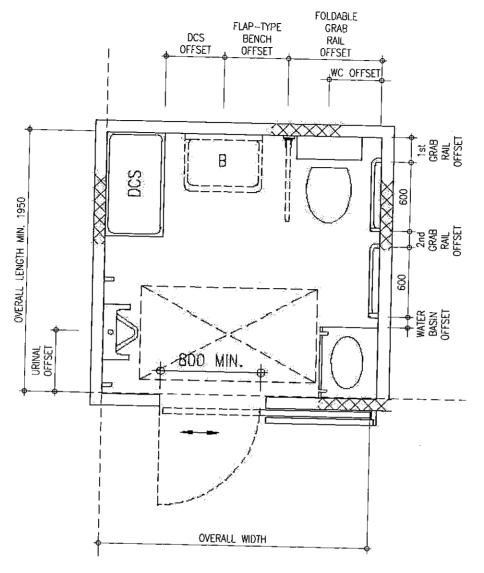


ITEMS		PARAMETER				
	HORIZONTAL GRAB RAIL, DIA. 32-40 AT 725-750 H.	1. 2. 3.	HORIZONTAL GRAB RAIL HEIGHT HORIZONTAL GRAB RAIL WIDTH HORIZONTAL GRAB RAIL LENGTH			
~~=== 1	FOLDABLE GRAB RAIL, 725—750 H.	1.	FOLDABLE GRAB RAIL HEIGHT			
1	VERTICAL GRAB RAIL, DIA.32-40 & L>600	1.	VERTICAL GRAB RAIL HEIGHT			

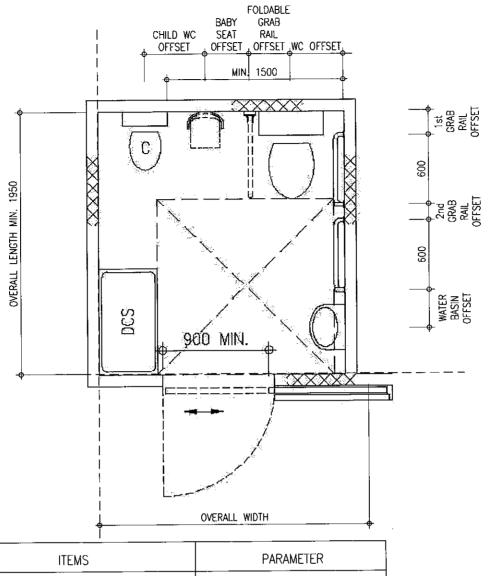


	ITEMS		PARAMETER		TEMS		PARAMETER	ا ا
	VERTICAL GRAB RAIL, DIA.32-40 & L≥600	1.	VERTICAL GRAB RAIL HEIGHT		CLEAR LEVELLED SPACE 800×1500 IN FRONT OF URINAL	-		na. Plan ipa
e===1	FOLDABLE CRAB RAIL, 725-750 H.	1.	FOLDABLE GRAB RAIL HEIGHT		Wash Basin With Notches at Basin	1. 2. 3.	WASH BASIN WIDTH WASH BASIN DEPTH WASH BASIN HEIGHT	tenend in
-	Horizontal Grab Rail, Dia. 32—40 at 7:25—750 h.	1. 2. 3.	HORIZONTAL GRAB RAIL HEIGHT HORIZONTAL GRAB RAIL WIDTH HORIZONTAL GRAB RAIL LENGTH		COUNTER EDGE CHILDREN FRIENDLY	1. 2.	CHILDREN FRIENDLY WASH BASIN WIDTH CHILDREN FRIENDLY WASH BASIN DEPTH	1 8
DCS	DIAPER CHANGING STATION MIN.900x500 AT 680-750 FROM F.F.L.	1. 2. 3. 4.	DCS HEIGHT WIDTH DEPTH HEIGHT	В	WASH BASIN FLAP-TYPE BENCH	3. 1.	CHILDREN FRIENDLY WASH BASIN HEIGHT	986
FDCS	FLAP-TYPE DIAPER CHANGING STATION MIN,900x500	1. 2. 3.	FDCS HEIGHT WIDTH DEPTH		FLAP-TYPE BABY SAFETY SEAT	1.	FLAP-TYPE BABY SAFETY SEAT HEIGHT	- taliot

Universal_Toilet_Type_C ACCESSIBLE ELDERLY AND FAMILY FRIENDLY TOILET-1



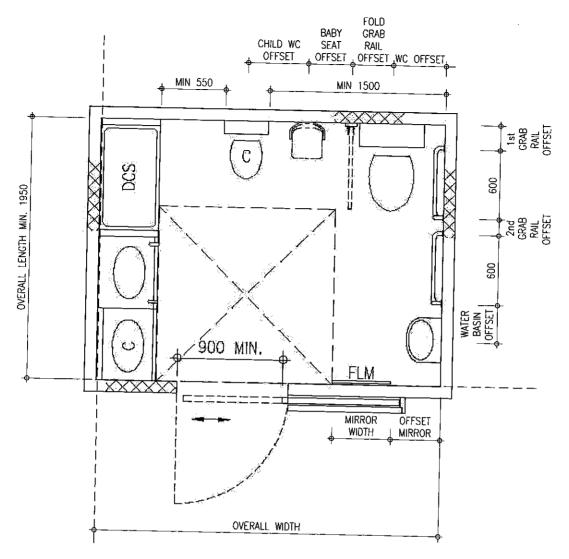
·	ITEMS	_	PARAMETER		ITEMS	Γ	PARAMETER
	URINAL FOR PERSONS WITH AMBULANT DISABILITIES	1.	urinal height		CLEAR LEVELLED SPACE 800x1500 IN FRONT OF URINAL		
	VERTICAL CRAB RAIL, DIA.32-40 & L≽600	1.	VERTICAL GRAB RAIL HEIGHT		Wash Basin With Notches at Basin Counter Edge	1, 2, 3,	Wash Basin Width Wash Basin Depth Wash Basin Height
===	FOLDABLE GRAB RAIL, 725-750 H.	1.	FOLDABLE GRAB RAIL HEIGHT	В	FLAP-TYPE BENCH	1,	FLAP-TYPE BENCH HEIGHT
 ,	HORIZONTAL GRAB RAIL, DÍA. 32—40 AT 725—750 H.	1, 2, 3.	HORIZONTAL GRAB RAIL HEIGHT HORIZONTAL GRAB RAIL WIDTH HORIZONTAL GRAB RAIL LENGTH		FLAPTYPE BABY SAFETY SEAT	1.	FLAP-TYPE BABY SAFETY SEAT HEIGHT
DCS	DIAPER CHANGING STATION MIN:900x500 AT 680-750 FROM F.F.L.	1. 2. 3.	DCS HEIGHT WIDTH DEPTH				



	ITEMS		PARAMETER
1	VERTICAL GRAB RAIL, DIA.32-40 & L>600	1.	VERTICAL GRAB RAIL HEIGHT
	HORIZONTAL GRAB RAIL, DIA. 32-40 AT 725-750 H.		HORIZONTAL GRAB RAIL HEIGHT HORIZONTAL GRAB RAIL WIDTH HORIZONTAL GRAB RAIL LENGTH
	FOLDABLE GRAB RAIL, 725-750 H.	1.	FOLDABLE GRAB RAIL HEIGHT
DCS	DIAPER CHANGING STATION MIN.900x500 AT 680-750 FROM F.F.L.	1. 2. 3.	DCS HEIGHT DCS WIDTH DCS DEPTH
	1500 X 1500 WHEELCHAIR MANOEUVRING SPACE		
<u> </u>	CHILDREN WC		
0	SMALL WASH BASIN FOR WHEELCHAIR USER WITH MIRROR ABOVE	1.	SMALL WASH BASIN HEIGHT

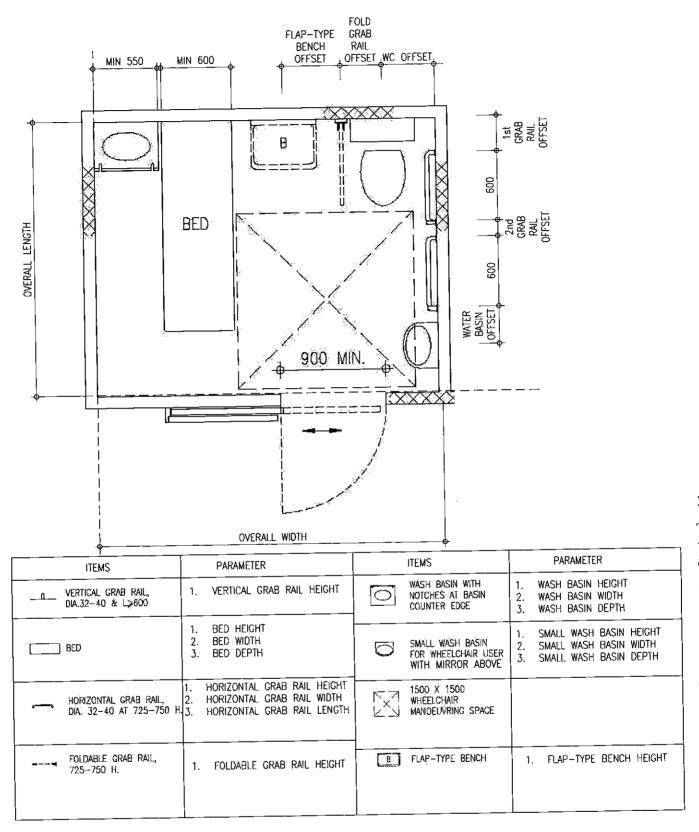
Universal_Toilet_Type_E

ACCESSIBLE ELDERLY AND FAMILY FRIENDLY TOILET-1



ITEMS	PARAMETER	ITEMS	PARAMETER	
VERTICAL GRAB RAIL, DIA:32-40 & L>600	1. VERTICAL GRAB RAIL HEIGHT	WASH BĀSIN WITH NOTCHES AT BASIN COUNTER EDGE	WASH BASIN HEIGHT WASH BASIN WIDTH	
FLAP-TYPE BABY SAFETY SEAT	FLAP-TYPE BABY SAFETY SEAT HEIGHT	CHILDREN FRIENDLY WASH BASIN	WASH BASIN DEPTH CHILDREN FRIENDLY WASH BASIN WIDTH CHILDREN FRIENDLY WASH BASIN HEIGHT CHILDREN FRIENDLY WASH BASIN HEIGHT	
HORIZONTAL GRAB RAIL, DIA: 32-40 AT 725-750 H.	HORIZONTAL GRAB RAIL HEIGHT HORIZONTAL GRAB RAIL WIDTH HORIZONTAL GRAB RAIL LENGTH	1500 X 1500 WHEELCHAIR MANOEUVRING SPACE	3. CHILDREN FRIENDLY WASH BASIN DEPTH	
FOLDABLE GRAB RAIL, 725-750 H.	1. FOLDABLE GRAB RAIL HEIGHT	CHILDREN WC		
DIAPER CHANGING STATION MIN.900X500 AT 680-750 FROM F.F.L.	1. DCS HEIGHT 2. DCS WIDTH 3. DCS DEPTH	SMALL WASH BASIN FOR WHEELCHAIR USER	1. SMALL WASH BASIN HEIGHT	
		FLM FULL LENGTH MIRROR	1. FULL LENGTH MIRROR HEIGHT	

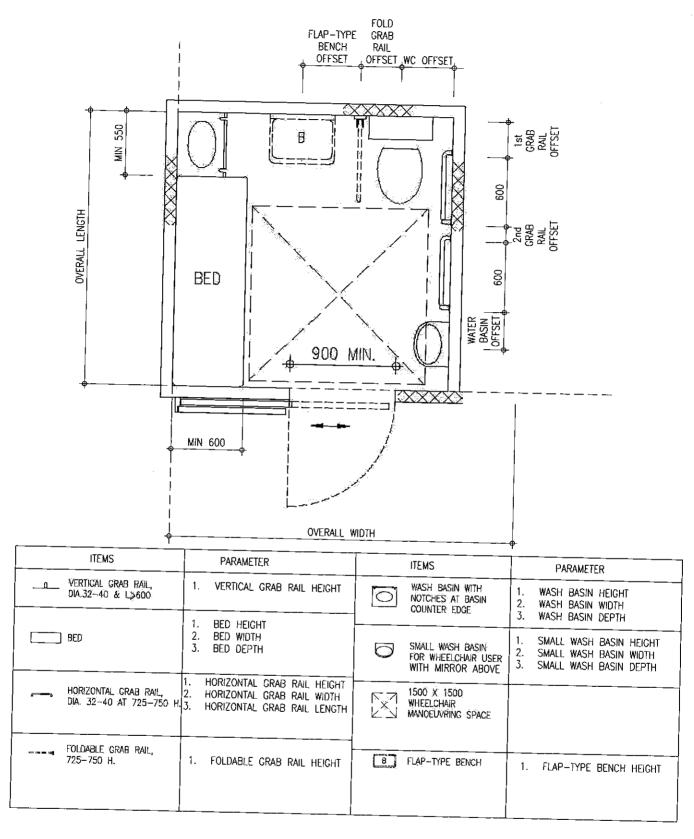
Universal_Toilet_Type_F ACCESSIBLE ELDERLY AND FAMILY FRIENDLY TOILET-2



Universal_Toilet_Type_G

ACCESSIBLE ELDERLY AND FAMILY FRIENDLY TOILET-3

OPTION A



Universal_Toilet_Type_G ACCESSIBLE ELDERLY AND FAMILY FRIENDLY TOILET-3 OPTION B

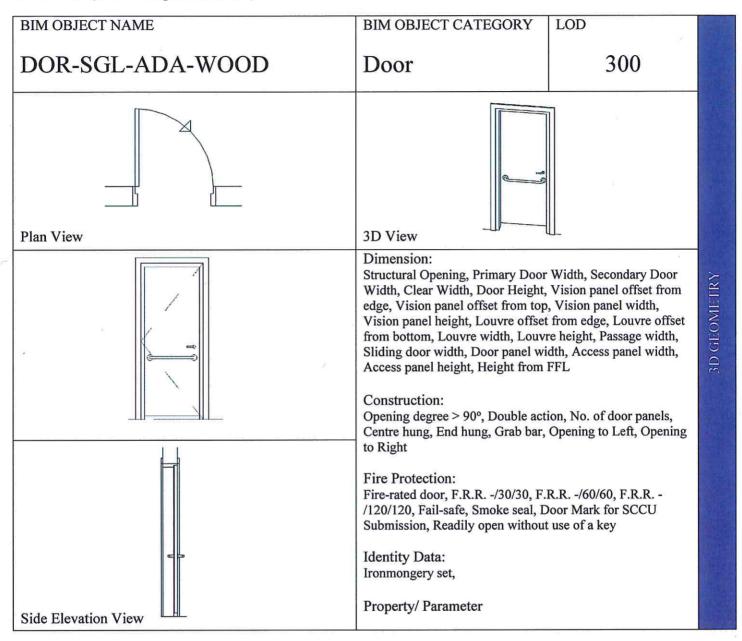


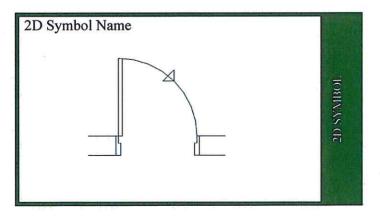
BIM OBJECT SHEET

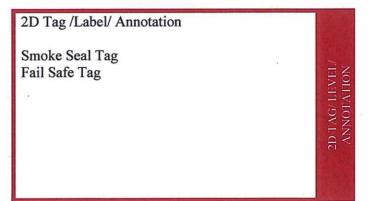
FOR FM 20	
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MAX A	2121	

INPUT (Name: Single Flush Door)







Remarks	3. 2
	Purpose/ Value Driven BIM OBJECT DELIVERABLES

OUTPUT

Sheet View Plan	Sheet View Elevation	
		Drawing
	,	Presentation Drawing
		iorities iwing
		Statutory/Authorities submission/Drawing
		Stat
		wing
		ruction dra
		Fender Construction drawing
7		2
9		
90	· · · · · · · · · · · · · · · · · · ·	Schedule drawing
		Schedule



Architectural Service Department

DOD DIA	Committee of the Commit
FOR FM	2018/19
	09-2018

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Reference Number	
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BIM OBJECT SHEET

INPUT (Name: Cover Channel)			
BIM OBJECT NAME	BIM OBJECT CATEGORY	LOD	
CHN-CVR-ADA-FreeLength-Line_base	Generic Models	300	
Plan View	3D View	<u> </u>	
	Dimension: Overall Width Overall Depth Channel Width Channel Depth Cover Thickness Cover Width Cover Length Wall Thickness		3D GEOMETRY
Front Elevation View	Yes/No:		
	Property/ Parameter		
Side Elevation View			

2D Symbol Name	
	2D SYMBOL

2D Tag /Label/ Annotation			
		TAG/LEVEL/ NNOTATION	
		2D T	
	(4)		
		574 May 12	

Remarks	
	Purpose/ Value Driven BIM OBJECT DELIVERABLES

OUTPUT

Sheet View Plan	Sheet View Elevation
	Presentation Drawing
	Statutory Authorities submission/Drawing
	Tender Construction drawing
	Schedule drawing



Architectural Service Department

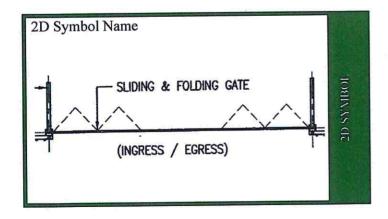
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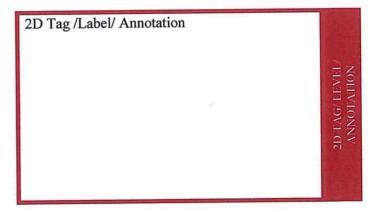
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Reference 1	Number	
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INPUT (Name : Hoarding Gantry Type A)

BIM OBJECT NAME	BIM OBJECT CATEGORY	LOD	1300
STE-HOD-ADA-Type_A-Gantry	SITE	300	
SUDING & FOLDING GATE (INGRESS / EGRESS)			X
Plan View Front Elevation View	Dimensions: Covered Walkway Width (W1) L1, L2, W2, S		3D GEOMETRY
Side Elevation View		ą	





Remarks	
	Purpose/ Value Driven BIM OBJECT DELIVERABLES

Sheet View Plan	Sheet View Elevation	
	· ·	Presentation Drawing
3 3		Statutory/ Authorities submission/Drawing
		Tender Construction drawing
		Schedule drawing



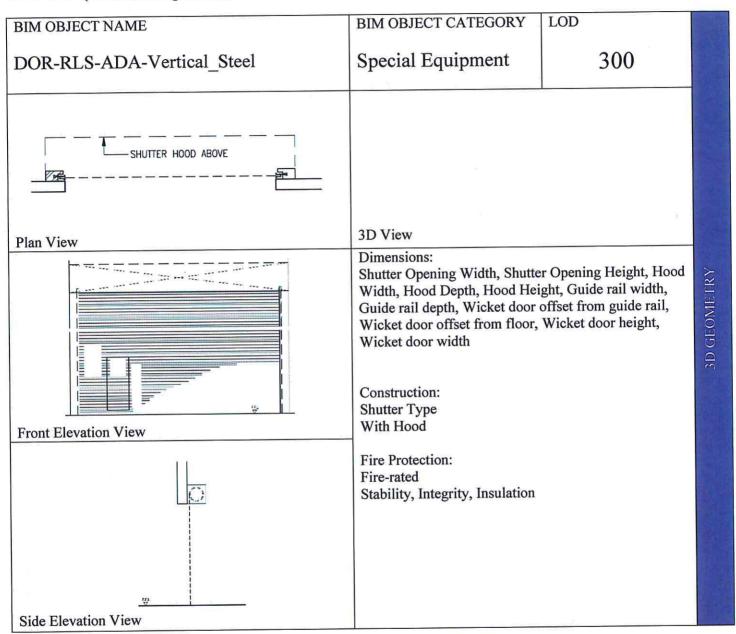
Architectural Service Department

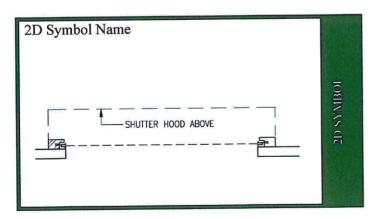
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FOR FM	2018/19
	09-2018

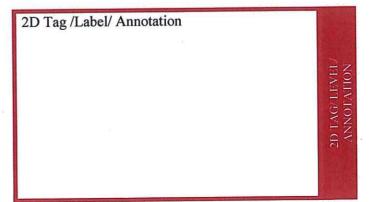
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Reference	ce Number	
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BIM OBJECT SHEET

INPUT (Name : Rolling Shutter)

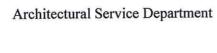






Remarks		
	Purpose/ Value Driven BIM OBJECT DELIVERABLES	
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Sheet View Plan	Sheet View Elevation	
		Presentation Drawing
		Statutory / Authorities submission/Drawing
		Tender Construction drawing
		Schedule drawing



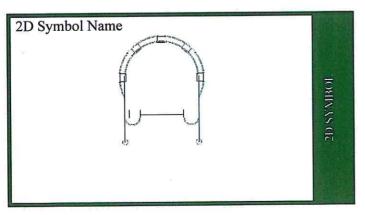
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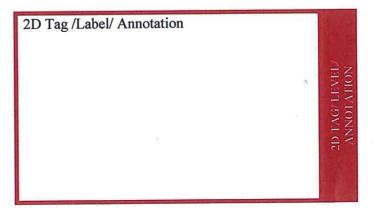
	APP	ENDIX	B5
Reference	Numbe	er	
XXX	ζ-XX	X	

BIM OBJECT SHEET

INPUT (Name : Cat Ladder)

II (I C I (I tallo : Cat Badder)			8
BIM OBJECT NAME	BIM OBJECT CATEGORY	LOD	
SPQ-LAD-ADA-Cage_Ladder	Special Equipment	300	
Plan View			
Plan View	Dimension:		
	Height, Guardrail Height, Rung Width, Rung Space, Bottom Rung Height, Tubular Rung Radius, Tubular Side Rail Radius, Hoop Width, Hoop Depth, Hoop Internal Radius, Hoop Space, Bottom Hoop Height, Tubular Hoop Radius, Vertical Bar Width, Vertical Bar Thickness, Distance from wall, Lockable Plate Width, Lockable Plate Height, Lockable Plate offset from ground		3D GEOMETRY
Front Elevation View	Platform Length, Platform Wid Offset from wall, Opening Wid		
	Yes/No: Intermediate Platform Property/ Parameter:		
Side Elevation View			A STATE





Remarks	
	Purpose/ Value Driven BIM OBJECT DELIVERABLES
•	

Sheet View Plan	Sheet View Elevation	
		Presentation Drawing
		Statutory/Authorities submission/Drawing
		Fender Construction drawing
at a second seco		Schedule drawing



Architectural Service Department

BIM OBJECT SHEET

QR CODE	REVIT
FOR FM	2018/19
	09-2018

	APPENDIX BG
Reference	Number
XXXX	₹-XXX

INPUT (Name: Universal Toilet Type A)

INPUT (Name : Universal Toilet Type A)			
BIM OBJECT NAME	BIM OBJECT CATEGORY	LOD	
PLM-WCS-ADA-Universal_Toilet_Type_A	Plumbing Fixture	300	
800 MIN.	2D Wisser		
Plan View	3D View		
	Dimensions: Overall Length, Overall Widtl grab rail (1) offset, Foldable g Foldable grab rail (2) offset,	rab rail (1) height,	3D GEOMETRY
Front Elevation View			
Side Elevation View	OD To /I -1-1/ Amost	ation	
2D Symbol Name	2D Tag /Label/ Annot	ation	
800 MIN.			2D TAG/ LEVEL/ ANNOTATION
Remarks			

Purpose/	Valu	e Driven	BIM	OBJECT	DELL	VERABLES

Sheet View Plan		Sheet View Elevation	
	 4	u	Presentation Drawing
			Statutory/ Authorities
			Tender Construction drawing
	.e.		Schedule drawing

QUOTATION CONTRACT NO: 15/2018/AB1

Creation of BIM Objects

FOR

THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION

Qualification requirements of the Consultancy Team

The minimum qualification requirements of the key personnel are specified as follows:

Position	Qualification
BIM Team Leader	1) Corporate membership of an appropriate professional institution or shall have 5 years relevant post-qualification experience plus university degree or equivalent in an appropriate construction related discipline; and 2) Minimum of 3 years of practical experience in management of BIM projects or equivalent; and 3) Minimum of 2 years of experience in working with Autodesk Revit Architecture Families and plug-ins.
BIM Modellers	 Minimum of 3 years local construction project experience in architectural discipline; Minimum of 1 year practical experience in local BIM projects; and Familiar with Autodesk Revit Architecture Families and plug-ins.

BIM Team Leader

The BIM Team Leader shall be responsible for the supervision, management and administration of the Assignment including planning, coordination, monitoring, and liaising with the Employer for all matters in connection with the Assignment. The Consultant's BIM Team Leader shall be proficient in spoken and written English and Cantonese / Chinese. The BIM Team Leader shall work with the BIM Modellers to generate the required modelling for the project delivery to the satisfaction of the Employer.

BIM Modellers

The BIM Modellers shall carry out the object creation and provide technical support for BIM modelling and drawings generation. The BIM Modellers shall be proficient in spoken and written English and Cantonese / Chinese.

Declaration Form by Consultant on Compliance with Conflict of Interest Avoidance and Debarring Requirements

[Guidance Notes:

- 1. Reference: ETWB TC(W) No. 18/2005.
- 2. This form is to be submitted by the Consultant upon commencement of the Services.]

Agree	1	r	1	3	n	t	Ì	V	C)						•				*	•
Title:													٠								

In accordance with Special Conditions of Employment Clause SCE 13, we confirm and declare that we have complied with the provisions stated therein. We further confirm and declare that we have taken action to ensure that our associated companies, associates or associated persons, sub-consultants, employees and agents are aware of the provisions therein stipulated including the following:

- (a) our associated companies, associates or associated persons or any of our sub-consultants shall not, during the term of this Agreement and for [@] months thereafter, undertake any services, tasks or jobs or do anything whatsoever for or on behalf of third party (other than in the proper performance of this Agreement), which touches, concerns or affects the Services or which may reasonably be seen to touch, concern or affect the Services, except with the prior written approval of the Director's Representative;
 - [@ Insert same period as that stated in SCE 13.]
- (b) our associated companies, associates or associated persons, and any of our sub-consultants shall not,
 - (i) undertake or compete for the role of a contractor or supplier or otherwise be involved as a shareholder of the contractor or supplier, in a subsequent procurement of any services and/or goods arising out of or relating to this Agreement;
 - (ii) undertake any services for a contractor (including acting as a sub-contractor) or supplier in respect of a contract between that contractor or supplier and the Employer for which we are providing a service arising out of or relating to this Agreement;
 - (iii) undertake any services for, including without limitation provision of advice to, a bidder bidding for a contract arising out of or relating to this Agreement,

except with the prior written approval of the Employer;

- (c) we are under an obligation to render advice or recommendations pursuant to this Agreement to the Employer on an impartial basis without giving favour to any particular product, services or equipment in which we have a commercial interest. We also have an obligation to notify the Employer immediately and in writing and keep the Employer notified of any actual, apparent, potential or perceived conflict we or our associated companies, associates or associated persons or any of our sub-consultants may have in, or any association or connection we or the aforesaid persons may have with, any of the services, products or equipment proposed or recommended by us under this Agreement. Each and every one of our directors, employees, agents and sub-consultants who are involved in this Agreement have given a binding undertaking to observe the aforesaid;
- (d) our directors, employees, agents and sub-consultants who are involved in the Agreement are required to declare in writing to us and keep us informed regularly any actual, apparent, or potential or perceived conflict between their personal/financial interests and their duties in connection with this Agreement, including all or any facts which may reasonably be considered to give rise to a situation which the financial interests of such persons, conflict or compete, or may conflict or compete, with our duties to the Employer under this Agreement. In the event that such conflict is disclosed in a declaration, we are under an obligation to forthwith take such reasonable measures as are necessary to mitigate as far as possible or remove the conflict so disclosed; and
- (e) our directors and employees who are involved in the Agreement are prohibited from engaging in any work or employment other than in the performance of this Agreement, with or without remuneration, which could create or potentially give rise to any actual, apparent, potential or perceived conflict between their personal/financial interests and their duties in connection with the Agreement. Our agents and sub-consultants are required to impose similar restriction on their directors and employees by way of a contractual provision.

(Name of the Consultant)	*********
(Name of the Signatory)	
(Position of the Signatory)	
(Date)	

Declaration Form by Consultant on Compliance with Ethical Commitments Requirements

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- 1. Reference: ETWB TC(W) No. 3/2004A and SDEV's memo ref. DEVB(PS)106/43 dated 24.8.2015.
- 2. This form is to be submitted by the Consultant upon commencement of the Services.]

Agreement No.:	 	 ٠.				,
Title:	 	 	 			

In accordance with the Special Conditions of Employment Clause SCE 14:

- (1) We confirm that we have complied with the following provisions and have ensured that our directors, employees, agents and sub-consultants are aware of the following provisions:
 - (a) Prohibiting our directors, employees, agents and sub-consultants who are involved in this Agreement from offering, soliciting or accepting any advantage as defined in section 2 of the Prevention of Bribery Ordinance, Cap 201 when conducting business in connection with this Agreement;
 - (b) Taking all measures as necessary to protect any confidential/privileged information or data entrusted to us by or on behalf of the Employer, or any such or similar information generated or produced by us pursuant to this Agreement, from being divulged to a third party other than those allowed in this Agreement.
- (2) We further confirm that we have ensured that our accountants, insurers and legal advisers are aware of the provisions requiring us taking all measures as necessary to protect any confidential/privileged information or data entrusted to us by or on behalf of the Employer, or any such or similar information generated or produced by us pursuant to this Agreement, from being divulged to a third party other than those allowed in this Agreement.

(Name of the Consultant)		٠.	 •		•	. ,	•	•		 •		
(Name of the signatory)												
(Position of the signatory)	١.	 ٠.	 •	٠.					٠.			
(Date)				٠.							.,	