"What you need to know about covered linkway proposals"

Presented by Architectural Division



Scope of Presentation

- 1. Objectives
- 2. Architectural Design Criteria (ADC) for covered linkway
- 3. Submission procedure
- 4. Reference
- 5. Conclusion



Difference between Covered Linkway and Covered Walkway



Example of Covered Linkway



Example of Covered Walkway



Objectives

- To assist consultants in the design and submission process of linkway proposals
- To highlight some common mistakes made by consultants



Architectural Design Criteria for Covered Linkway

- Outlines specific requirements and minimum standards acceptable
- Acts as a form of guide to assist the consultants in their submission
- Not intended to restrict the consultants' creative solutions



Architectural Checklist for Covered Linkway

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	Architectural Checklist Fo						(√) Tick the	Not Remar	
	(Canopies either attached to the face of build	an Total or Chicago	Total Control Control			Standard Requirements	Compile	Complied	500,000
	Standard Requirements	Complied	Not Complied	k for all items Remarks	3.6	Linkways connecting to MRT / LRT stations or other high traffic routes identified by the Authority shall have:			
1.	General					- Minimum clear width - 3.0m			
.1	The route of the covered linkway shall be level as far as possible. If there is a level difference, it has to be addressed by ramps or steps. Ramps					 Minimum clear headroom - 2.1m All other linkways shall have : Minimum clear width - 1.5m 			
	are preferred over steps. In cases where the linkway forms part of the access route for				2.7	- Minimum clear headroom - 2.1m			
	handicapped users, ramps shall be provided.				3.7	Columns shall be placed on the far side away from the carriageway.			
2.	References			5. 7. 14.	4.	Interfaces		9	
2.1	Roof and surface drainage shall comply with PUB requirements. There shall be no ponding.				4.1	Road reserve line is to be indicated on the plans elevations and sections.			
2.2	E&M provisions shall comply with E&M Design Requirements (ADC Section 4.2).				4.2	and the adjacent facility shall prevent rainwater			
.3	Ramps, steps and handrails shall comply with the "Code On Barrier-Free Accessibility In				12	from flowing & splashing onto the commuters' sheltered area.		Ш,	3
.4	Buildings". All materials and finishes shall comply with the				4.3	There shall be no structural connection to any existing facility.			
6.4	LTA Architectural Material and Workmanship (M&W) Specification for Shelters				4.4				
.5	Floor finishes shall comply with the Floor Finishes Checklist (ADC Section 6.3) which shall be completed and submitted together with				4.5	bus shelter address plate, bus stop pole or taxi pole.			
2	this checklist.				4.6	The covered linkway is preferred to be connected at the rear of the bus/taxi shelter so			
3.1	Detailing The direction of fall is to be indicated on the					as to maintain minimum encroachment into the road reserve.			
2.0	plan.			- 2	Note:		-		
3.2	The shelter shall provide adequate weather protection, including against radiant heat, with appropriate overhang.				- Managaran Turki	The QP shall state the reasons for not complying with	h items that ar	e marked "No	t Complied".
3.3	The drainage design shall not allow: - stagnation,								
	 ponding, or splashing into the commuters sheltered area. 	_			Nam	ne Of Qualified Person Signature	Of Qualified	Person	D
3.4	The lateral clearance between the outer edge of the road kerb and any element shall be minimum 0.6m.	- 🗆							
3.5	Polycarbonate or Teflon roof material shall not be used.								

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Remarks

Item 1.1 – The route of the covered linkway shall be levelled as far as possible



Covered Linkway



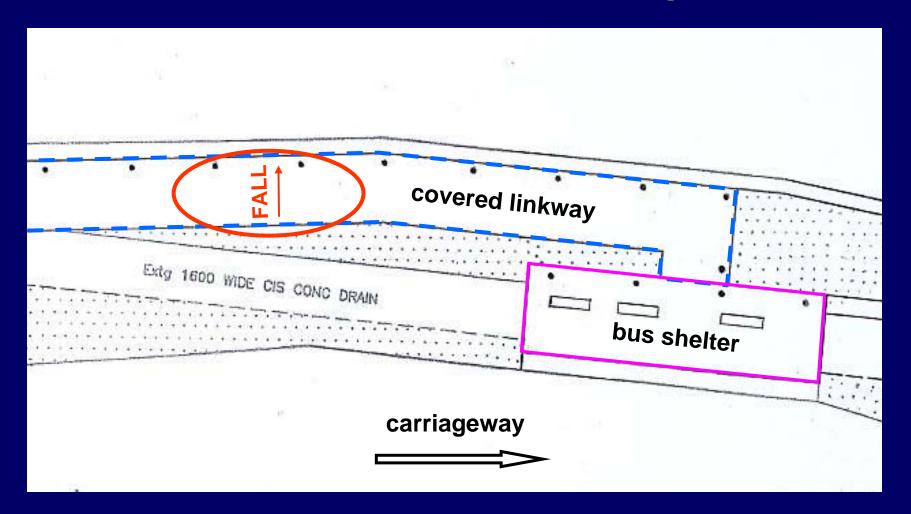
- Item 2.1 Roof and surface drainage shall comply with PUB requirements
- Item 2.2 E&M provisions shall comply with E&M Design Requirements (ADC Section 4.2)
- Item 2.3 Ramps, steps and handrails shall comply with the 'Code on Accessibility in the Built Environment 2007'
- Item 2.4 All materials and finishes shall comply with LTA Architectural Materials and Workmanship (M&W) Specifications

Item 2.5 - Floor Finishes Checklist

	Floor Finishes Pursuant to The Street Works A					
Mat	erial Used :	(eg granite, homogeneous tiles et (✓) Tick the appropriate box for all items				
	Standard Requirements	Complied	Not Complied	Remarks		
1.	The proposed finished floor shall provide a safe and hazard free environment. Any potential risks with appropriate mitigating measures shall be identified.					
2.	Submit full information on the proposed material for open walkways to be maintained by LTA. (brand/ country of origin/name of manufacturer & supplier/ brochures/ product reference etc.)					
3.	Comply to Slip Resistance (Coefficient of friction for dry & wet.) SS485:2001 for "Slip resistance classification of public pedestrian surface material".					
4.	The material selected shall be stain resistant and shall not react chemically under prolonged moist and wet conditions.					
5.	Comply to surface hardness according to Moh's scale 7.					
6.	The material selected shall comply to the respective water absorption and compressive strength test requirements of a recognised regulatory body, eg SPRING Singapore.					
7.	The material selected shall have joints that are adequately spaced to cater for movement to prevent debonding.					
8.	Submit a digital image of the proposed material taken with the existing neighbouring tiles (for open walkways to be maintained by LTA only).					
9.	The material selected shall comply with any applicable URA Development Control requirements for the particular location.					
	es: The QP shall state the reasons for not complying with A separate checklists shall be completed and submitte Nothing shall be construed to exempt any person from the Street Works Act and its Regulations, the rules me the time being in force. Any standard used for compliance must be recognised. Test reports of building materials are not required to be	ed for each se m otherwise c ade thereund d by SPRINC	eparate materia complying with er and all other	l. the provision of		



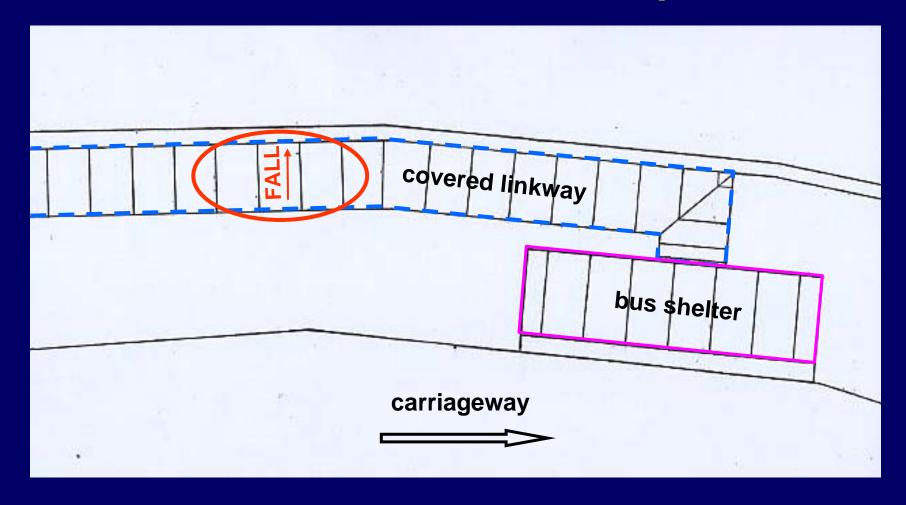
Item 3.1 - Direction of fall is to be indicated on the floor plan



Typical Floor Plan of Covered Linkway



Item 3.1 - Direction of fall is to be indicated on the roof plan



Typical Roof Plan of Covered Linkway



Item 3.2 - The shelter shall provide adequate weather protection, including against radiant heat, with appropriate overhang





Example of covered linkway with adequate overhang

Example of glass linkway where it acts as an extension of the bus shelter



Item 3.3 - The drainage design shall not allow: stagnation, ponding or splashing into the commuters' sheltered area







Example of proper drainage measure provided at covered linkway



Item 3.4 - Lateral clearance between the outer edge of the road kerb & any element shall be minimum 0.6m



Item 3.5 - Polycarbonate or Teflon roof material shall not be used





Example of polycarbonate covered linkway

Example of teflon covered linkway



Item 3.6 - Minimum clear width & headroom clearance of covered linkway





Typical Covered Linkway at MRT Stations

Typical Covered Linkway



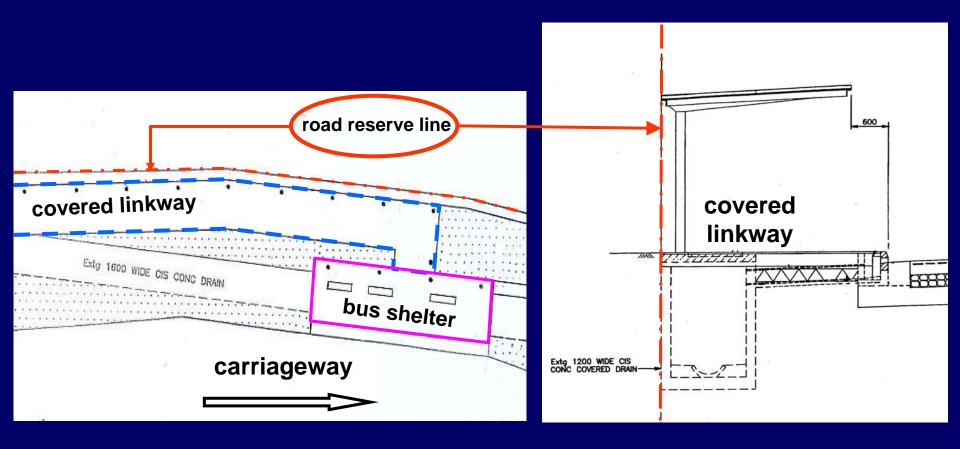
Item 3.7 - Columns shall be placed on the far side of the carriageway



Covered Linkway



Item 4.1 - Road reserve line is to be indicated on plans, elevations & sections



Typical Floor Plan of Linkway

Typical Elevation / Section of Linkway



Item 4.2 - Interfacing detail between linkway & adjacent facility

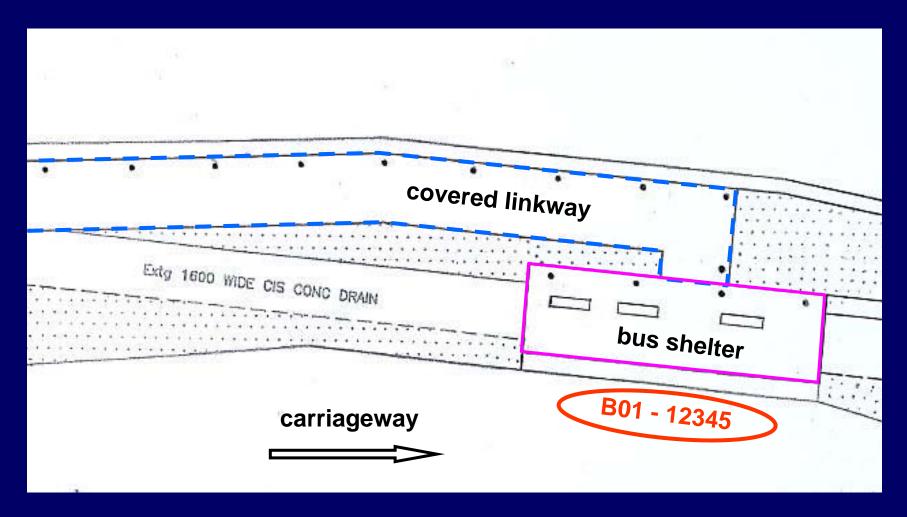
Item 4.3 - There shall be no structural connection to any existing facility



Example of interfacing detail between covered linkway & bus shelter



Item 4.4 - Bus shelter code number shall be indicated on the floor plan



Typical Floor Plan of Covered Linkway



Bus Stop Number

bus shelter address plate





Bus Shelter (Typical)

Bus Shelter (Type A)



Bus Stop Code





Item 4.5 - Linkway connection shall not obstruct any bus shelter address plate, bus stop pole or taxi pole

bus shelter address plate

bus stop pole





Item 4.6 - The linkway is preferred to be connected at the rear of the bus / taxi shelter to minimise encroachment into the road reserve



Submission Procedure

- All linkway proposals are to be submitted to LTA, Development & Building Control Division
- The drawings required for submission are:
 - a) Site / Location Plan
 - b) Floor Plan
 - c) Roof Plan
 - d) Elevation of entire linkway
 - e) Section/s if there are different linkway heights
 - f) Enlarged interfacing details
- Checklist forms required:
 - a) Architectural checklist for covered linkway
 - b) Floor finishes checklist if floor tiles are proposed for the covered linkway

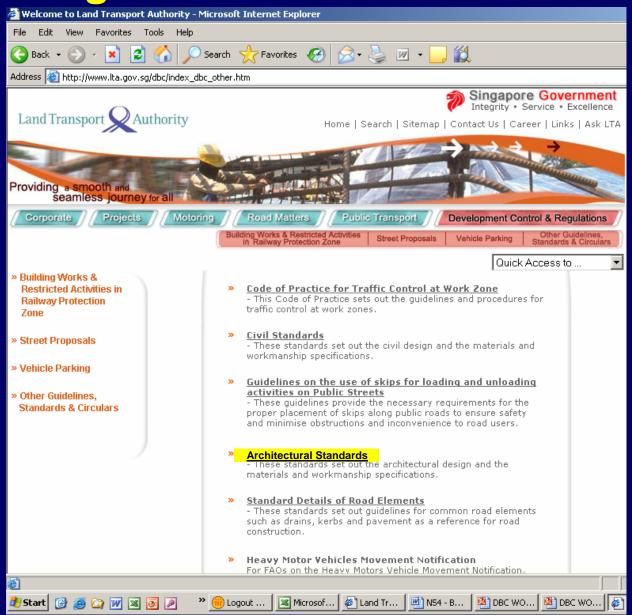


Reference

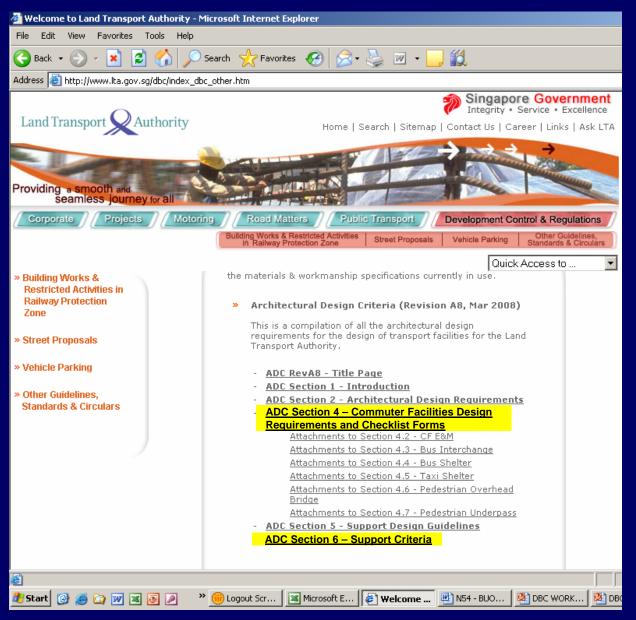
The Architectural Checklist for Covered Linkway and the Floor Finishes Checklist are available in the LTA website:
www.lta.gov.sg/dbc/index_dbc_other.htm
or www.corenet.gov.sg



Web Page to Architectural Standards



Website link to the checklist forms





Thank You!

