

# **Access for People with Disabilities**

**Design Compliance Report – DA Level Documentation** 

**Upper Australia & Nocturnal House** 

Taronga Zoo, Bradleys Head Road, Mosman NSW

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# **Executive Summary & Recommendations**

This report has assessed the **Development Application Stage** design documentation for the **proposed Upper Australia & Nocturnal House Refurbishment** at **Taronga Zoo – Bradleys Head Road NSW** under the relevant Regulations relating to "Access for People with Disabilities".

The primary purpose of the report is to assess the proposed/new development works against the Access Regulations, identify any non-compliance matters and to provide suitable recommendations to ensure the compliance of the design.

The development demonstrates an ability to comply with the relevant provisions relating to the provision of access and facilities for people with disabilities, subject to the recommendations as detailed below:

Significant matters, being those with the ability to affect the design have been included
in the <u>Table 1.0</u> in the Executive Summary.
All other informational or minor recommendations are included in <u>Table 3.0</u> of this report.

The recommendations of the report should be considered by the relevant stakeholders and addressed where relevant.

## **TABLE 1.0 – Significant Recommendations**

NA – there are no 'significant recommendations' applicable for the DA stage documentation. Refer to minor recommendations and comments in Section 3.0 for items that need to be addressed at CC stage.



1.0 Introduction

This report has assessed the **Development Application Stage** design documentation for the

proposed Upper Australia & Nocturnal House Refurbishment at Taronga Zoo - Bradleys

**Head Road NSW** under the relevant Regulations relating to "Access for People with

Disabilities".

1.1 Assessed Information

This report is based on the following:

Desktop assessment of DA Level Architectural Plans prepared Lahznimmo Architects

(Insert Transmittal Reference)

1.2 Purpose of Report

The purpose of this report is to identify the extent to which the architectural design documentation

complies with the following and to provide recommendations where necessary:

• Part D3 "Access for People with Disabilities", Clause F2.4 "Accessible Sanitary Facilities" &

Clause E3.6 "Passenger Lifts" of the Building Code of Australia (National Construction Code)

2019 - Volume 1 as relevant to the proposal.

• The Guide to the Building Code of Australia - National Construction Code 2019 - Volume 1.

Relevant clauses of AS1428.1-2001/2009 "Design for Access and Mobility – Part 1: General

Requirements for Access New Building Works" published by Standards Australia.

Commonwealth Disability (Access to Premises) Standards 2010. This standard typically

requires compliance with the BCA and Australian Standards for new works, but also

contains additional provisions for the upgrade of existing buildings in which new works are

being undertaken.

1.3 Limitations of Report

Any parts of the access regulations that are not directly referenced in Section 1.2 of this

Report.

The assessment is limited to a desktop assessment only and has not included physical

measurement of the property or building in any way.

Some access requirements are recognised as being interpretive in nature. Where these
matters are encountered, interpretations are made in accordance with MSA policy. Specific
relevant interpretations relevant to this assessment are included in Section 2.0 "BCA
Assessment Data".

# 2.0 Building Characteristics

# 2.1 Building Description

The proposed works primarily comprise:

- Internal refurbishment of the existing nocturnal house
- Construction of 'tree house' and elevated Koala Tree walk
- Construction of external walkways and accessible ramps
- Associated animal exhibits and landscaping

## 2.2 BCA Assessment Data

The following BCA assessment data is relevant to the proposal under the current BCA:

	BCA Clause	Description	
A1.1	Classification/Use	5 - Staff Areas of Nocturnal House and - Ticketing Office & Storeroom  9b - Nocturnal House - Public Areas	
A3.2	Rise in Stories	Ticketing Office/Tree House – 1 Nocturnal House – Assumed* 1 Note that the 'Ropes Course Building' sits partially over the Nocturnal House. Details for the Ropes Course Building have not been provided and it is assumed that this portion of the building comprises only a single storey above ground at any point along the external walls.  **DEXITY TO STATE	
-	Interpretation		

# 3.0 ACCESS ASSESSMENT & RECOMMENDATIONS

#### Items are nominated as follows:

- "Complies" the design documentation indicates clear compliance with the requirement
- "Does Not Comply" there is a clear non-compliance indicated on the design documentation
- "NA or Informational" the clause provides compliance direction only or is not applicable to the subject development
- **"Compliance Required"** the current level of detail is insufficient to determine full compliance. These items are flagged for the ongoing information of the design team as relevant. Compliance with these requirements can typically be addressed at Construction Certification (CC) stage without major deviation from the current design. Note Construction Certification will be carried out under a EP&A Act Section 6.28 Certificate.

The following compliance assessment table is divided into the following key access-related considerations:

- 3.1 ACCESS TO BUILDINGS & ENTRANCES
- 3.2 PARTS OF A BUILDING THAT MUST BE ACCESSIBLE
- 3.3 THE ACCESSIBLE PATH
- 3.4 FLOOR FINISHES
- 3.5 DOORWAYS & GLAZING
- 3.6 WALKWAYS
- 3.7 RAMPS
- 3.8 STEP, KERB + THRESHOLD RAMPS
- 3.9 STAIRWAYS
- 3.10 TACTILE GROUND SURFACE INDICATORS FOR HAZARDS
- 3.11 TACTILE GROUND SURFACE INDICATORS DIRECTIONAL (NOT USED)
- 3.12 LIFTS
- 3.13 LIGHTING
- 3.14 SIGNAGE
- 3.15 SANITARY FACILITIES
- 3.16 HEARING AUGMENTATION
- 3.17 CARPARKING
- 3.18 ACCESS TO PREMISES STANDARD (UPGRADE OF EXISTING BUILDINGS)



## 3.1 ACCESS TO BUILDINGS & ENTRANCES

#	Accessibility Requirement	Comment/Recommendation
3.1.1	Access from Boundary  An accessway must be provided from the main points of a pedestrian entrance at the allotment boundary to the subject building.  BCA D3.2(a)(i)	Pedestrian entrances at the allotment boundary are generally proposed to be accessible (as shown below in green)
3.1.2	Access from other Buildings  An accessway must be provided from another accessible building connected by a pedestrian link to the subject building  BCA D3.2(a)(ii)	An accessway is generally proposed between the subject buildings.
3.1.3	Access from Carparking  An accessway must be provided from any required accessible carparking space on the allotment to the subject building  BCA D3.2(a)(iii)	There is no carparking affected by the proposed development (accessways between the existing carparking and the subject building(s) are proposed to be retained as existing).
3.1.4	Access Via Principle Entrance  The accessway must be through the principle public entrance  BCA D3.2(b)	Access is provided via the principle pedestrian public entrance as required.



3.1.5	Number of Accessible Entries  Not less than 50% of all pedestrian entrances to the building.  BCA D3.2(b)(i)	Each 'building' is provided with a single entrance (which is proposed to be accessible).
3.1.6	Accessible Entry Locations  In a building over 500m², an accessible entrance must be within 50m of any non-accessible entrance. This does not apply to pedestrian entrances to areas that are exempt from requiring access under D3.4  BCA D3.2(b)(ii)	For the purposes of this assessment it is assumed that all pedestrian entrances will be accessible.
3.1.7	Entrance Doorways	Each 'entrance' comprises a single doorway.
	Where up to 3 doorways are provided at the entrance, not less than 1 must be accessible (850mm clear opening with compliant circulation space)	
	Where more than 3 doorways are provided at the entrance, not less than 50% of those doorways must be accessible (850mm clear opening with compliant circulation space)	
	Where multiple doorways sets are provided, each set must provide an accessible door if the doorsets are more than the width of the widest doorway away from each other	
	BCA D3.2(c)	

## 3.2 BUILDINGS & PARTS OF BUILDINGS THAT MUST BE ACCESSIBLE

#	Accessibility Requirement	Comment/Recommendation
3.2.1	Building Parts to be Accessible  BCA Table D3.1 provides the requirements for Access to buildings – primary based on Classification. Areas required to be accessible are typically required to comply with AS1428.1. Requirements are summarised as follows:  • Class 2, 3 & 9c buildings – Common areas - Access must be provided from a pedestrian entrance required to be accessible to at least one floor containing sole occupancy units and to the entrance doors of each sole occupancy unit on that level and where levels are served by a passenger lift, to all unit entrances and common areas of the levels served by a lift. Access must also be provided to one of each type of common room/space for use by residents (kitchens, gyms, pools, laundries, lounge rooms and the like).	Access is considered to be provided to and within the buildings as required – noting comments below in relation to exemptions in the Nocturnal House.
	Class 3 & 9c – SOUS (Accessible SOUs must be provided in accordance with Table BCA D3.1 – the number is calculated on the total number of SOU's provided. Accessible SOU's must be representative of the rooms available and not more than 2 accessible SOUs can be provided adjacent one another.	



	Class 5, 6, 7b, 8, 9a & 9b buildings – Access must be provided to and within all areas normally used by the occupants (additional requirements apply to Class 9b buildings which are not schools).	
	Class 7a buildings – Access must be provided to and within any level containing accessible carparking spaces.	
	BCA D3.1	
3.2.2	Access to Buildings	For the purposes of this assessment it is assumed
	An Access way must be provided to the building from:	that all pedestrian entrances will be accessible.
	the main points of pedestrian entry at the allotment boundary	
	from another accessible building connected by a pedestrian link	
	any accessible carparking space on the allotment	
	Access must be provided through the 'principal pedestrian entrance' and not less than 50% of all entrances. Where the floor area of the building exceeds 500m², a non-accessible entrance must not be located more than 50m from an accessible entrance.	
	BCA D3.2	
3.2.3	Exemption for Access to Small Storeys	NA to subject building
	In relation to staff areas, ramped or lift access need not be provided to storeys other than the entrance storey of Class 5, 6, 7b or 8 building that-	
	-contains not more than 3 storeys, and	
	- where each storey (other than the entrance storey) is not more than 200m²	
	IMPORTANT NOTE: Although ramped or lift access is not required to the <200m² storeys, the storeys <u>must still be</u> otherwise be provided with accessible paths of travel and features under AS1428.1 to ensure any future provision of lift or ramped access would be to a level that is otherwise compliant)	
	BCA D3.3	
3.2.4	Other Exemptions for Access	It is considered that the back of house areas in the
	The following areas are exempt from needing to be accessible:	Nocturnal House which primarily contains animal holding, kitchen/laundry facilities (for animals),
	-an area that would be inappropriate because of its particular use	plantrooms and storage areas may be subject to an exemption (on the assumption that the staff in these
	-an area that would pose a health or safety risk for people with a disability	areas would typically need to be able bodied for work
	-any path of travel providing access only to an area listed above	health and safety reasons)
	BCA D3.4	The Zoo will need to confirm this prior to the issue of a CC.



## 3.3 THE ACCESSIBLE PATH

#	Accessibility Requirement	Comment/Recommendation
3.3.1	Accessway Width	The scaled dimensions indicate general compliance.
	Accessways should be a minimum unobstructed width of 1000mm (clear of handrails or other obstructions)	
	BCA D3.2 and AS1428.1-2009	
3.3.2	Accessway Height	As above.
	Accessways must be a minimum of 2000mm in unobstructed height	
	AS1428.1-2009	
3.3.3	Obstructions in Accessways  Accessways must not include steps, stairways, turnstiles, revolving doors, escalators, moving walkways or other impediments  6.1 of AS1428.1-2009	Accessways appear generally free of steps – however the following spot levels (as shown in red below) are to be confirmed. Differences in levels to comply with AS1428.1.  TAMBER RAAPS  REFER LANDSCAPPING



#	Accessibility Requirement	Comment/Recommendation
		ROPES COURSE POLE  NEW RETAINING WALLS  1:14 RAMP  TIMBER VIEWING PLATFORM +63,638  1:14 F
3.3.4	Manoeuvring Areas For Wheelchair Turns  Manoeuvring areas of the following dimensions must be provided allow the following turns:  - 60° to 90° - 1.5m x 1.5m with splay  - 30° to 60° - 0.5m x 0.5m internal splay, if less than 1200mm width  - 90° to 180° - 2.07m long x 1.54m wide  - 360° - 2.45m x 2.45m  See Figures 4 & 5 of AS1428.1-2009  BCA D3.1, 6.5 of AS1428.1-2009	Manoeuvring areas appear generally compliant, with details for the final layout of the Nocturnal House to be provided for assessment.  Full details to be provided at CC stage.
3.3.5	Passing Space for Wheelchairs  Two way accessways less than 1800mm wide, must be provide with passing areas every 6m for <u>public</u> areas, and every 20m for <u>staff</u> areas  Width to be 1600mm x 1800mm if space is to be on one side and 1800mm x 2000mm if the space is distributed equally on both sides of the path	Passing spaces generally not applicable in the proposed base building layout – on the <u>assumption</u> that accessways are will achieve a minimum width of 1800mm.



#	Accessibility Requirement	Comment/Recommendation
	1000 400 1000 2000	
3.3.6	BCA D3.3(c) Crossfall	Details to be provided at CC stage.
	The camber or crossfall of paths of travel must not exceed 1:40, or 1:33 if the surface is a bituminous seal 10.1(d) of AS 1428.1-2009	Details to be provided at CC stage.
3.3.7	Construction tolerances for abutment of surfaces	Details to be provided at CC stage.
	Provide a smooth transition between abutting surfaces. A construction tolerance of 3mm for vertical differences is allowable or 5mm where edges are rounded or bevelled. Gaps must not exceed 5mm in width  7.2 of AS 1428.1-2009	
3.3.8	Changes in Level >5mm	Details to be provided at CC stage.
	When the changes in level are greater than 5mm one of the following shall be provided:  (a) threshold ramp (max gradient 1:8, max rise 35mm)  (b) step ramp (max gradient 1:10, max rise 190mm)  (c) kerb ramp (max gradient 1:10, max rise 190mm)  (d) ramp (max gradient 1:14)  (e) walkway (max gradient 1:20)  (f) lift	
	AS1428.1-2009	



## 3.4 FLOOR FINISHES

#	Accessibility Requirement	Comment/Recommendation
3.4.1	Surface Finishes & Slip Resistance	Details to be provided at CC stage.
	Ground and floor surfaces shall comply with the requirements for floor surfaces in AS 1428.1. The followings finishes are considered satisfactory:	
	Wet locations:  Concrete with abrasive finish; Concrete with exposed aggregate finish; Bituminous concrete; Natural stone with rough finish; Paving bricks with abrasive finish. Slip resistant tiles.	
	Dry locations  ☐ All materials suitable for wet locations; ☐ Short piled carpet ☐ Smooth flooring materials that do not have a high gloss or slippery finish or have been treated appropriately.	
	Surfaces provided on access paths and circulation areas must be slip resistant and suitable for people with disabilities.	
	The minimum slip resistant ratings should be in accordance with HB 197.	
	<ul> <li>□ Internal Corridors, Walkways and Stairs - X &amp; R10</li> <li>□ External colonnade, walkways - W &amp; R10</li> <li>□ External Ramps - V &amp; R11</li> <li>□ External Stairs - W &amp; R11</li> </ul>	
	Clause 12 of AS 1428.1 2001, AS 4586:2004 and HB 197	
3.4.2	Grates	Details to be provided at CC stage.
	Grates to have circular openings no greater than 13mm and slotted openings no greater than 8mm wide in the direction of travel or 13mm when perpendicular	
	7.5 of AS1428.1-2009	



## 3.5 DOORWAYS & GLAZING

#	Accessibility Requirement	Comment/Recommendation
3.5.1	Doorways  Doorways in accessible areas must comply with the following provisions as relevant  BCA D3.1	See below.
3.5.2	Clear Opening of Doorways  All doors required to be accessible must have a minimum clear opening width of 850mm  BCA D3.2(e) and 13.2 of AS1428.1-2009	Details to be provided at CC stage.  It is recommended that the doorway serving the storeroom in the treehouse be min 850mm wide.  121.50 m² 6.51 m² 69,153
3.5.3	Double leaf doors  In the instance of double-leaf doors, the active leaf of the door must meet the general requirements for access, inclusive of clear opening width, circulation space and door hardware  BCA D3.2(e)	There are no double leaf doors proposed.
3.5.4	Door Circulation Space - Generally  Doorways must have clear circulation spaces around them dependant on door type, swing and direction of approach. The circulation space must be free of obstruction and not be steeper than 1:40 grade to allow operation of the doors by a wheelchair user.  See Figures 31, 32, 33 and 34 of AS1428.1-2009 for full details.	It is recommended that compliant circulation space be provided to the doorway(s) in the ticketing office in the tree house.



#	Accessibility Requirement	Comment/Recommendation
#	recessisme, resquirement	- Commence of the commence of
	13.3 of AS1428.1-2009	Details demonstrating compliance to be provided at Construction Certificate (CC) stage.
3.5.7	Circulation space at automated doors  The circulation spaces required generally under AS1428.1-2009 are applicable on approach to an automatic door – See Figures 31-34 of AS1428.1.  Clause 13.3 of AS1428.1-2009  Circulation space at airlock or successive doors  The distance between doorways provided within passageways, vestibules, airlocks or other similarly enclosed spaces must be no less than 1450mm and increased by the door leaf width where doors encroach into this space  Clause 13.4 of AS1428.1-2009	Details for proposed automated doors are not provided on the current plans.  Details to be provided at CC stage (where applicable)  The circulation space to the 'airlocks' appears > 1450mm as required.  STRUCTI  WNISEX WCs 19.05 m²  H69,60
3.5.8	Circulation space for depth of door recess  The depth of the door recess, measured to the face of the door, must be no greater than 300mm. Where this cannot be achieved, the door may be automated or circulation space to either side of the door must be increased by the depth of the door reveal	Details to be provided at CC stage.
	Clause 13.3.3.3 of AS1428.1-2009	



#	Accessibility Requirement	Comment/Recommendation
3.5.9	Circulation space at surface mounted sliding door  In the instance of a surface-mounted sliding door, the door must be automated or the circulation space to either side of the door must be increased by the depth of the door reveal. This increase in space is applicable only to the opposite side of the surface-mounted door  Clause 13.3.3.3 of AS1428.1-2009	Details to be provided at CC stage.  STORE 6.51 m <sup>2</sup> TICKETING 19.10 m <sup>2</sup>
3.5.10	Door finishes/Contrast of doorway  All doors forming part of an accessible path of travel shall have a 30% luminance contrast of at least 50mm between:  the door and door jamb; door and adjacent wall; architrave and wall; door and architrave.  Clause 13.1 of AS1428.1-2009	Details to be provided at CC stage.
3.5.12	Door hardware  The door handle and related hardware for accessible doors must allow for the door to be unlocked and opened with one hand  Clause 13.5.2 of AS1428.1-2009	Details to be provided at CC stage.
3.5.13	Door hardware  All door hardware must enable adequate grip for people with limited hand dexterity and shall not require tight grasping, pinching or twisting of the wrist.  Clause 13.5.2 of AS1428.1-2009	Details to be provided at CC stage.
3.5.14	Height of door hardware  Door handles and related hardware to be generally located at a height between 900mm and 1100mm	Details to be provided at CC stage.



#	Accessibility Requirement	Comment/Recommendation
	BCA D3, AS1428.1-2009	
3.5.15		Details to be provided at CC stage.
	Lever handles or D-pull handles and push panels to be installed on both sides of all manual hinged doors with a clearance of between 35mm and 45mm required between the rear face of the handle and the face of the door	
	Clause 13.5.2 of AS1428.1-2009	
3.5.16	Clearance to handles on sliding doors	Details to be provided at CC stage.
	On manual sliding doors, D-type handles to be installed no less than 60mm from the door jamb lining when in the open or closed position	
	Clause 13.5.2 of AS1428.1-2009	
3.5.17	Door snibs	Details to be provided at CC stage.
	Door snibs and locks which are a lever design with a length of no less than 45mm (measured from the centre of the spindle) are preferred	
	Clause 13.5.2 of AS1428.1-2009	
3.5.18	Door closers	Details to be provided at CC stage.
	It is proposed to alter door operating forces required to provide an achievable level without further compromising access provision. These include:	
	☐ 20N to initially open the door;	
	<ul><li>□ 20N to hold the door open; and</li><li>□ 20N to swing the door.</li></ul>	
	☐ Where environmental forces prohibit this, door must be automated	
	Clause 13.5.2 of AS1428.1-2009	
3.5.19	Visual Indicators on Glazing	Details to be provided at CC stage.
	Where there is no chair rail, handrail or transom, all frameless or fully glazed doors, side lights and any glazing capable of being mistaken for a doorway or opening must be clearly marked in accordance with AS1428.1 as follows:  □ a solid contrasting line not less than 75mm wide at a height of between 0.9m and 1.0m above finished floor level must be provided  □ The line to be min. 30% luminance contrast when viewed against surface within 2m of the glazing on the opposite	
	side	



#	Accessibility Requirement	Comment/Recommendation
	☐ Transparent, translucent or broken lines are NOT acceptable as visual indicators  Clause 6.6 of AS1428.1-2009	

## 3.6 WALKWAYS

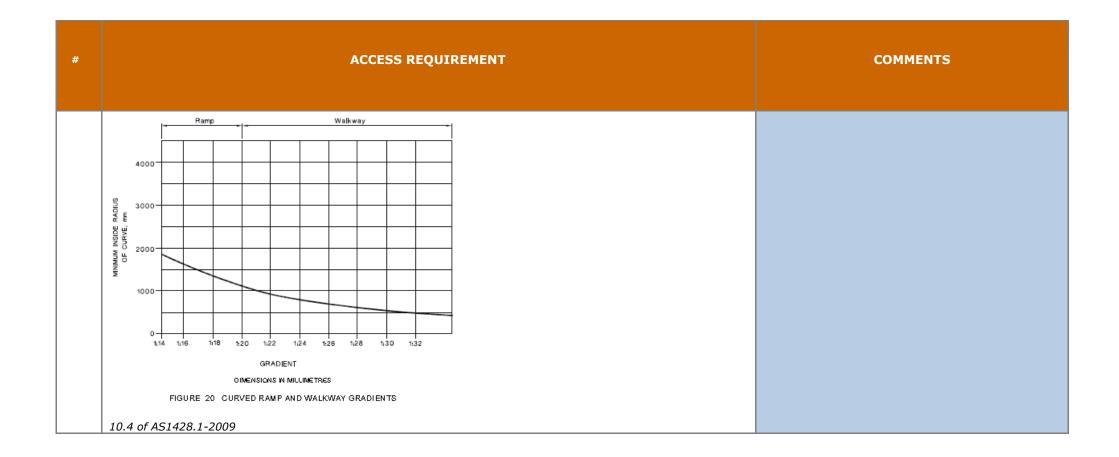
#	ACCESS REQUIREMENT	COMMENTS
3.6.1	Walkway Width  The minimum unobstructed width of a walkway must be 1000mm  AS1428.1-2009	The proposed walkways appear to be at least 1m wide as required.
3.6.2	Walkway Gradients  Walkways that are accessible must not have gradients which exceed 1:20, otherwise the path is considered a 'ramp' and subject to separate requirements (see below).  AS1428.1-2009	1:20 gradient indicated as required.
3.6.3	Walkway Gradients  Walkways shallower then 1:33 must be provided with crossfall of no less than 1:40, or 1:33 for bitumen surfaces to allow for water to shed  Clause 10.1(d) of AS1428.1-2009	Crossfalls to be indicated at CC stage.
3.6.4	Landing Frequency to Walkways  Walkways must be provided with landings at the following intervals:  □ Gradients of 1:20, landings at 15m intervals; □ Gradients of 1:33, landings at 25m intervals.	Design complies as required.



#	ACCESS REQUIREMENT	COMMENTS
	For walkways with gradients between 1:20 and 1:33 landings shall be obtained by linear interpolation.  Clause 10.2 of AS1428.1-2009	
3.6.5	Constant Gradients to Walkways  The gradient of walkways between landings must be constant  Clause 10.2 of AS1428.1-2009	As above.
3.6.6	Landing increase if protection provided  Intervals between landings in walkways may be increased by 30% where at least one side is protected by a kerb and handrail, or a wall and handrail  Clause 10.2 of AS1428.1-2009	Noted
3.6.7	Where no protection is provided to walkway  The side of the walkway or the ground abutting the side of the walkway must extend horizontally for 600mm, following the grade of the walkway unless one of the following is provided:  kerb and handrail wall no less than 450mm high Walkways need not otherwise be provided with handrails, kerbs or tactile ground surface indicators  Clause 10.2 of AS1428.1-2009	Details for kerb rail to be provided at CC stage.
3.6.8	Landings to walkways must have a minimum depth of 1200mm, except for the following situations:  - 1500mm x 1500mm for up to 90 degrees (internal corner can be splayed	The landings appear to be compliant, however full dimensions to be provided at CC stage.



**ACCESS REQUIREMENT COMMENTS** Min 1540mm x 2100mm for 180 degrees 1000 1540 Landings at doorways must be the size of the required circulation space Clause 10.8 of AS1428.1-2009 3.6.9 **Curved Walkways** Grade of curved accessway to be confirmed. Curved walkways must be at least 1500mm, with their length measured along the centre line. Walkway must be provided with a minimum inside radius as below:



#### 3.7 RAMPS

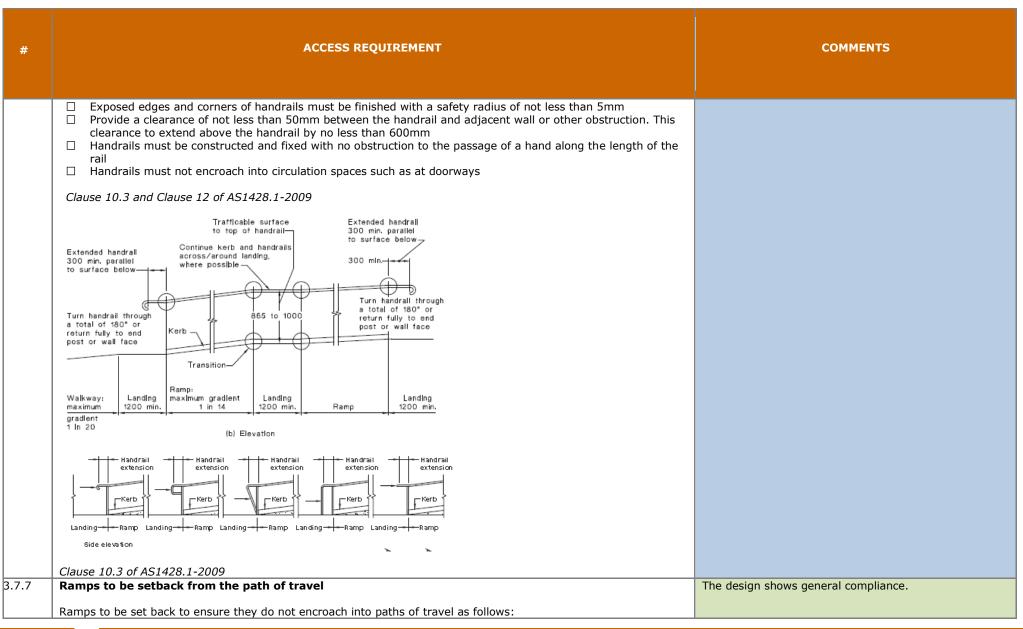
#	ACCESS REQUIREMENT	COMMENTS
3.7.1	Ramps  Where walloways are steeper than 1,20, they are considered ramps and must be no steeper than 1,14.	The grade of the ramps where indicated, do not exceed 1:14.
	Where walkways are steeper than 1:20, they are considered ramps and must be no steeper than 1:14.	
	Also, where a ramp exceeds 1900mm in length or a rise of greater than 190mm, it is no longer considered a kerb ramp or step ramp and must be no steeper than 1:14.	
	See Section 3.8 of this report for step, kerb and threshold ramp requirements.	
	Clause 10.3 of AS1428.1-2009	
3.7.2	Ramp Width	Clear width of the ramp (are not currently dimensioned,
	Ramps must be a minimum of 1000mm in width	but appear >1m as required)
	AS1428.1-2009	
3.7.3	Ramp Landings	Ramp landings appear adequately spaced (dimensions required for ramp <b>landings</b> at CC stage), with the
	Ramps must be provided with 1200mm deep landings at appropriate intervals:	following specific issues noted:
	☐ Gradients of 1:14, landings at 9m intervals;	
	☐ Gradients of 1:19, landings at 15m intervals. ☐ For ramps with gradients between 1:20 and 1:14 landings shall be obtained by linear interpolation	A landing will need to be provided between the walkway and ramp as shown below.
	To rumps with gradients between 1.20 and 1.14 landings shall be obtained by linear interpolation	and ramp as snown below.
	Clause 10.3 of AS1428.1-2009	



#	ACCESS REQUIREMENT	COMMENTS
		ADING FOR ENTRANCE  ENTRAN
3.7.4	Landing dimensions to ramps  Landings must be increased in size where the ramp also changes direction at the landing as follows:	The design appears to provide sufficient turning space at the top and base of the ramps (noting comments above) - dimensions should be confirmed at CC stage.
	□ 1500mm x 1500mm for up to 90 degrees (internal corner can be splayed	Note that the required handrail extensions (for both the stair and ramp - not currently shown) must not encroach into the required turning space.
	1500	

#	ACCESS REQUIREMENT	COMMENTS
	☐ Min 1540mm x 2100mm for 180 degrees	
	Landings at doorways must be the size of the required circulation space for the doorway	
	Clause 10.8 of AS1428.1-2009	
3.7.5	Dequired Features to Dames	Details not surrently shown. To be provided at CC stage
5.7.5	Required Features to Ramps  General ramps that are 1:14 to 1:20 are required to be provided with the following features:  □ Accessible Handrails to both sides (see below)  □ Kerb, kerb rail or wall to both sides (see below)  □ Tactile Ground Surface Indicators (see separate TGSI section of this report)  □ The above does not apply to kerb or step ramps (see separate section of this report)  Clause 10.3 of AS1428.1-2009	Details not currently shown. To be provided at CC stage
3.7.6	Handrails to Ramps	The current plans do no not show details for handrail
	Ramps (except kerb and step ramps) must have accessible handrails with the following features:  Handrails to be provided to both sides of the ramp  Handrails to extend 300mm past the commencement and conclusion of the ramp except where the inner handrail is continuous at an intermediate landing  Handrails to be installed at a continuous height of between 865mm and 1000mm above the surface of the ramp  Where a balustrade is required at greater height, both shall be provided  Provide circular or elliptical handrails with a diameter of 30-50mm for not less than 270° around the uppermost surface  Handrails must be securely fixed and rigid with the ends turned downwards through an angle of 180° for a minimum of 100mm, return to an end post or returned away to side wall	locations. To be provided at CC stage







#	ACCESS REQUIREMENT	COMMENTS
	<del></del>	
	SECTIONAL ELEVATION A-A	
	<ul> <li>Where the handrail protrudes into a path of travel, the handrail must be protected by means of a wall, kerb, balustrade or end post</li> </ul>	
	Clause 10.3 of AS1428.1-2009	
3.7.8	Kerb height	Details to be provided at CC stage.
	Kerbs or kerb rails are required on ramps and landings where there is no balustrade or wall provided. Kerb or kerb rails must comply with the following:  A minimum height of 65mm;  The height to the top of the kerb or kerb rail must not be between 75mm and 150mm;  Perforations greater than 20mm must not be provided in the kerb or kerb rail between 75mm and 150mm.	
3.7.9	10.3(i) of AS1428.1-2009  Kerb location	As above.
	Kerbs or kerb rails and handrails must be provided with the following relationship:  The ramp-side face of the kerb or kerb rail must flush with the ramp-side face of the handrail; or  Be located so that the ramp-side face of the kerb or kerb rail is no greater than 100mm behind the ramp-side face of the handrail	



#	ACCESS REQUIREMENT	COMMENTS
	<ul> <li>□ Where the handrail incorporates a support post, the height of the kerb or kerb rail must be no less than 150mm in height; or</li> <li>□ Where the kerb or kerb rail is between 65mm and 75mm in height, the support post must be located a minimum of 200mm from the ramp-side face of the kerb or kerb rail</li> </ul>	
	10.3(i) of AS1428.1-2009	
	Support post Suppo	
3.7.10	Curved Ramps  Curved ramps must be at least 1500mm wide, with their length measured along the centre line.	Curved ramps appear to be sufficient width, with further dimensions to be provided at CC stage.
	Ramp must be provided with a minimum inside radius as below:	





# 3.8 STEP, KERB + THRESHOLD RAMPS

#	ACCESS REQUIREMENT	COMMENTS
3.8.1	Step Ramps  Step ramps shall have  A maximum rise of 190mm A maximum gradient of 1:10 A maximum length of 1900mm Slip resistant surface  Clause 11.7 of AS 1428.1-2009	There are no step ramps or kerb ramps currently proposed.
3.8.2	Splayed sides to step ramps  Where there is cross traffic, step ramps shall:  Have splayed sides at 45° angles a suitable barrier is provided at a minimum height of 900mm, and kerb rail if open  Clause 10.6.1 of AS 1428.1-2009	As above.
3.8.3	Width of step ramps  Step ramp shall provide an unobstructed width of 1000mm  AS 1428.1-2009	As above.
3.8.4	Landings to step ramps  Landings at the top or bottom of step ramps shall:  Not overlap with the landings of other step/kerb ramps (BCA D3.11)  1200mm deep where there is no change in direction  1500mm x 1500mm where there is a potential 90 degree turn  1500mm deep x 2000mm width where a T junction occurs  The size of the required door circulation where necessary	As above.



#	ACCESS REQUIREMENT	COMMENTS
	Balustrade for edge protection of travel  Upper level  Lower level  PLAN VEW  1500  Direction of travel  Lower landing  Direction of travel  1500  Direction of travel  1500  Direction of travel	
3.8.5	Kerb Ramps  Kerb ramps shall have:  A maximum rise of 190mm  A gradient no steeper than 1:8 and located within or attached to a kerb  A maximum length of 1520mm  Be flush with the roadway  Splayed sides of 45° angle where transverse traffic is likely;  Slip resistant surface  Clause 10.7 of AS1428.1-2009	As above.
3.8.6	Splayed sides to kerb ramps  Where there is cross traffic, kerb ramps shall:  Have splayed sides at 45° angles Be flush with the roadway  Clause 10.6.1 of AS 1428.1-2009	As above.
3.8.7	Width of kerb ramps  Kerb ramps shall provide an unobstructed width of 1000mm  AS 1428.1-2009	As above.



#	ACCESS REQUIREMENT	COMMENTS
3.8.8	Landings to kerb ramps  Landings at the top or bottom of kerb ramps shall:  Not overlap with the landings of other step/kerb ramps (BCA D3.11)  Be 1200mm deep where there is no change in direction  Be 1500mm x 1500mm where there is a single 90 degree turn  Be 1500mm deep x 2000mm width where a T junction occurs	As above.
3.8.9	☐ The size of the required door circulation where necessary  Align kerb ramps	As above.
	NOTES:  1. Centre-time of kerb trains and pedestrian veliges shall align across the road or vehicular drawway within the bridding properly albitiment.  2. Top and bottom of fact brains chall the submed at 180 or trained in 180 o	

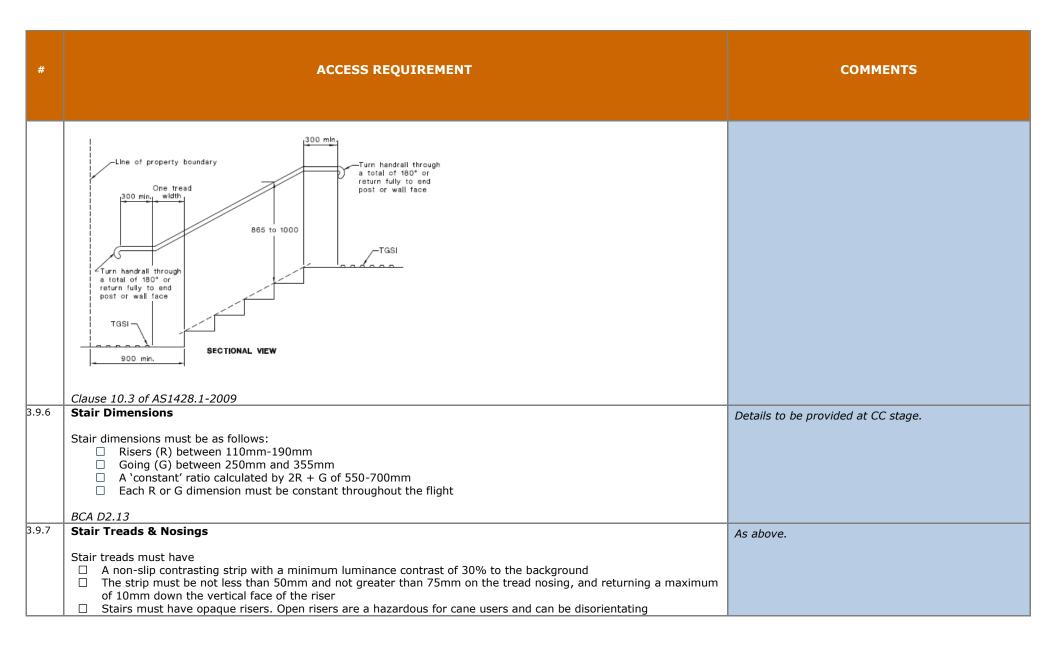


#	ACCESS REQUIREMENT	COMMENTS
3.8.10	10.7.1 of AS1428.1-2009  Kerb ramps not complying with Clause 5.8	As above.
	Where kerb ramps form part of a continuous accessible path of travel and do not meet the requirements of AS 1428.1.2009, warning tactile ground surface indicators (TGSIs) to be installed perpendicular to the path of travel. TGSIs to be located on the trafficable surface of the ramp, setback 300mm (+/- 10mm) from the roadway edge with a depth of 600mm – 800mm and extending the full width of the path of travel  AS 1428.4.1-2004	
3.8.11	Threshold ramps shall have:  A maximum rise of 35mm A gradient no steeper than 1:8 and located within or attached to a kerb A maximum length of 280mm Splayed sides of 45° angle where not abutted by a wall Slip resistant surface Be Within 20mm of the door leaf it serves    Door	Where threshold ramps are proposed, they must comply with this clause.  Details to be provided as required (at CC stage).

## 3.9 STAIRWAYS

#	ACCESS REQUIREMENT	COMMENTS
3.9.1	Stairs must not be only access	Noted
	Stairs must not be the sole means of access to areas required to be accessible.	
	Clause 13.1 of AS1428.2	
3.9.2	Stair Width	The scaled dimensions indicate general compliance.
	Stairs must be no less than 1m in unobstructed width	
	AS1428.1-2009	
3.9.3	Stairs to be set back a minimum of 900mm from any transverse path of travel, ensuring the handrails and tactile ground surface indicators do not protrude into that path of travel. Where the handrail protrudes into a path of travel, the handrail must be protected by means of a wall, kerb, balustrade or end post  Clause 11.1(a) of AS1428.1-2009	The design shows general compliance.
3.9.4	Stairs must have accessible handrails with the following features:  Handrails to be provided to both sides of the stair (except in a fire isolated stair) Handrails to extend 300mm past the top riser, parallel to the floor. At the base of the stairs, handrails must extend one tread width, continuing the angle of the handrail, plus 300mm Handrails to be installed at a continuous height of between 865mm and 1000mm above the nosing of the stairs Where a balustrade is required at greater height, both shall be provided Provide circular or elliptical handrails with a diameter of 30-50mm for not less than 270° around the uppermost surface Handrails must be securely fixed and rigid with the ends turned downwards through an angle of 180° for a minimum of 100mm, return to an end post or returned away to side wall Exposed edges and corners of handrails must be finished with a safety radius of not less than 5mm Provide a clearance of not less than 50mm between the handrail and adjacent wall or other obstruction. This clearance to extend above the handrail by no less than 600mm Handrails must be constructed and fixed with no obstruction to the passage of a hand along the length of the rail Handrails must not encroach into circulation spaces such as at doorways	Stair handrail details to be provided at CC stage.







#	ACCESS REQUIREMENT	COMMENTS
	☐ Stair nosings must have a sharp intersection, be rounded up to 5mm radius or chamfered up to 5mm x 5mm  Clause 11.1(e) of AS1428.1-2009	
3.9.8	BCA Restrictions  Stairs must meet the following restrictions detailed in the BCA:  □ Stairs must have not more than 18 risers to prevent fatigue for users  □ Stairs must have at least 2 risers (ie single steps are prohibited)  □ Stairs used for exits must not contain winders in lieu of a landing  □ Treads of solid construction, where connecting more than 3 stories  □ In Class 9b buildings, a 30 degree change in direction must be provided where there are more than 36 risers in consecutive flights  BCA Clause D2.13	As above.

#### 3.10 TACTILE GROUND SURFACE INDICATORS FOR HAZARDS

#	ACCESS REQUIREMENT	COMMENTS
3.10.2	Type B (Domed/Hazard) Tactile Ground Surface Indicators are required in accordance with AS1428.4-1992 in the following locations:  On an access path to indicate overhead obstructions below a height of 2000mm (see below)  Ramps (see below) Stairs (see below) Escalators (see below) Pedestrian crossings at roadways & carparks  TGSIs are NOT typically required at the following locations: Walkways at a grade shallower than 1:20 Step, kerb or threshold ramps Within fire isolated stairs  BCA D3.8, AS1428.1-2009 and Clause 18.1 of AS1428.2-1992  Luminance contrast  Tactile ground surface indicators must achieve luminance contrast in accordance with the following: Integrated tiles, where the raised indicators and background surface are the same colour, not less than 30% luminance contrast to be achieved with the base surface in which it is installed; Discrete indicators, where the raised indicators and background surface are different in colour, not less than 45% luminance contrast to be achieved with the base surface in which it is installed; Two-tone discrete indicators, where the raised indicators are constructed with different colour to the upper and splayed surfaces, not less than 60% luminance contrast to be achieved between the upper surface and the base surface in which it is installed.	TGSI's should be provided at the top & base of all new stairs and ramps (but are not required for walkways)  Note TGSI's will also need to be provided to overhead obstructions (e.g. to the underside of stairs) where the height is less than 2m above the floor.  Details to be provided at CC stage.  Details to be provided at CC stage.
3.10.3	Overhead Obstruction TGSIs  Tactile ground surface indicators or other suitable barrier must be provided where there are impediments or hazards at a height less than 2000mm above the floor.  BCA D3.8, AS1428.1-2009 and AS1428.4-1992	Details to be provided at CC stage.



#	ACCESS REQUIREMENT	COMMENTS
3.10.4	Ramp TGSIs	As above.
	A pad of Type B TGSIs must be provided at the top and bottom of ramps:  Setback 300mm from the ends of the ramp 600mm-800mm deep Extend the full width of the ramp They are not required at mid-landings should the handrail be continuous throughout the landing. Otherwise a 300mm deep pad setback 300mm from the ramp is required at the mid-landing.  BCA D3.8, AS1428.1-2009 and AS1428.4-1992	
3.10.5	Stair TGSIs	As above.
	A pad of Type B TGSIs must be provided at the top and bottom of stairs:  Setback 300mm from the end of the ramp Be 600-800mm deep Extend the full width of the ramp They are not required at mid-landings should the handrail be continuous throughout the landing. Otherwise a 300mm deep pad setback 300mm from the ramp is required at the mid-landing	
	BCA D3.8, AS1428.1-2009 and AS1428.4-1992	
3.10.6	Escalator TGSIs	There are no escalators proposed.
	Type B Warning TGSIs should be installed to the cover plates at the top and bottom of escalators per AS1428.4-1992	
	AS1428.4-1992	

## 3.11 TACTILE GROUND SURFACE INDICATORS - DIRECTIONAL (NOT USED)

# 3.12 LIFTS (NOT USED)

## 3.13 LIGHTING

#		ACCESS REQUIREMENT	COMMENTS
3.13.1	Lighting levels		Details to be provided at CC stage.
	Any lighting provided must comply w 19.1 of AS1428.2-1992 for various ro	ith AS1680.0 and it is recommended that lighting also meet the requirements of doom uses as follows:	
	Entrances		
	Passageways and walkway	s150 lx	
	Stairs	150 lx	
	Ramps	150 lx	
	Lifts	See AS 1735.12	
	Toilet and locker rooms	200 lx	
	Counter tops	250 1x	
	General displays	200-300 lx	
	Telephones	200 lx	
	Clause 19.1 of AS1428.2		



## 3.14 SIGNAGE

#	ACCESS REQUIREMENT	COMMENTS
3.14.1	In a building required to be accessible—  (a) braille and tactile signage complying with <b>Specification D3.6</b> must—  (i) incorporate the international symbol of access or deafness, as appropriate, in accordance with AS 1428.1 and identify each—  (A) sanitary facility, except a sanitary facility within a sole-occupancy unit in a Class 1b or Class 3 building; and (B) space with a hearing augmentation system; and  (ii) identify each door required by <b>E4.5</b> to be provided with an exit sign and state—  (A) " <b>Exit</b> "; and  (B) " <b>Level</b> "; and either (aa) the floor level number; or (bb) a floor level descriptor; or (cc) a combination of <b>(aa)</b> and <b>(bb)</b> ; and	Details to be provided at CC stage.
3.14.2	(b) signage including the international symbol for deafness in accordance with AS 1428.1 must be provided within a room containing a hearing augmentation system identifying— (i) the type of hearing augmentation; and (ii) the area covered within the room; and (iii) if receivers are being used and where the receivers can be obtained; and	As above.
3.14.3	(c) signage in accordance with AS 1428.1 must be provided for accessible unisex sanitary facilities to identify if the facility is suitable for left or right-handed use; and	As above.
3.14.4	(d) signage to identify an ambulant accessible sanitary facility in accordance with AS 1428.1 must be located on the door of the facility; and	As above.
3.14.5	(e) where a pedestrian entrance is not accessible, directional signage incorporating the international symbol of access, in accordance with AS 1428.1 must be provided to direct a person to the location of the nearest accessible pedestrian entrance; and	NA to subject design.
3.14.6	(f) where a bank of sanitary facilities is not provided with an accessible unisex sanitary facility, directional signage incorporating the international symbol of access in accordance with AS 1428.1 must be placed at the location of the sanitary facilities that are not accessible, to direct a person to the location of the nearest accessible unisex sanitary facility.	NA to subject design.



## 3.15 SANITARY FACILITIES (BCA F2.4)

#	ACCESS REQUIREMENT	COMMENTS
3.15.1	F2.4 Accessible sanitary facilities In a building required to be accessible—  (a) accessible unisex sanitary compartments must be provided in accessible parts of the building in accordance with Table F2.4(a); and  Class 5, 6, 7, 8 or 9 — except for within a Where F2.3 requires closet pans—  ward area of a Class 9a health-care building (a) 1 on every storey containing sanitary compartments; and (b) where a storey has more than 1 bank of sanitary compartments containing male and female sanitary compartments, at not less than 50% of those banks.	Accessible sanitary facilities are proposed in the Treehouse amenities as required.
3.15.2	(b) accessible unisex showers must be provided in accordance with <b>Table F2.4(b)</b> ; and	NA to subject design.
3.15.3	(c) at each bank of toilets where there is one or more toilets in addition to an accessible unisex sanitary compartment at that bank of toilets, a sanitary compartment suitable for a person with an ambulant disability in accordance with AS 1428.1 must be provided for use by males and females; and	It is recommended that the male and female (or unisex) WC's be suitable for use by people with an ambulant disability.  It is recommended that the male and female (or unisex) WC's be suitable for use by people with an ambulant disability.  ITREEHOU 121.50 mm  STORE 6.51 mm  **69.16*
3.15.4	(d) an accessible unisex sanitary compartment must contain a closet pan, washbasin, shelf or bench top and adequate means of disposal of sanitary towels; and	Fitout details to be provided at CC stage.



#	ACCESS REQUIREMENT	COMMENTS
3.15.5	(a) the circulation energy fiveway and fittings of all appropriate spatians facilities provided in	Fitaut dataile to be provided at CC stage
3.13.3	(e) the circulation spaces, fixtures and fittings of all accessible sanitary facilities provided in accordance with Table F2.4(a) and Table F2.4(b) must comply with the requirements of AS 1428.1; and	Fitout details to be provided at CC stage.
3.15.6	(f) an accessible unisex sanitary facility must be located so that it can be entered without crossing an area reserved for one sex only; and	Design generally complies
3.15.7	(g) where two or more of each type of accessible unisex sanitary facility are provided, the number of left and right-handed mirror image facilities must be provided as evenly as possible;	NA to subject design.
3.15.8	(h) where male sanitary facilities are provided at a separate location to female sanitary facilities, accessible unisex sanitary facilities are only required at one of those locations; and	Noted.
3.15.9	(i) an accessible unisex sanitary compartment or an accessible unisex shower need not be provided on a storey or level that is not required by D3.3(f) to be provided with a passenger lift or ramp complying with AS 1428.1. "	Noted.



#### 3.16 HEARING AUGMENTATION

#	ACCESS REQUIREMENT	COMMENTS
3.16.1	D3.7 Hearing augmentation  (a) A hearing augmentation system must be provided where an inbuilt amplification system, other than one used only for emergency warning, is installed—  (i) in a room in a Class 9b building; or  (ii) in an auditorium, conference room, meeting room or room for judicatory purposes; or  (iii) at any ticket office, teller's booth, reception area or the like, where the public is screened from the service provider.	Zoo to confirm whether inbuilt amplification systems are proposed ion the Nocturnal House.
	<ul> <li>(b) If a hearing augmentation system required by (a) is—</li> <li>(i) an induction loop, it must be provided to not less than 80% of the floor area of the room or space served by the inbuilt amplification system; or</li> <li>(ii) a system requiring the use of receivers or the like, it must be available to not less than 95% of the floor area of the room or space served by the inbuilt amplification system, and the number of receivers provided must not be less than—</li> <li>(A) if the room or space accommodates up to 500 persons, 1 receiver for every 25 persons or part thereof, or 2 receivers, whichever is the greater; and</li> <li>(B) if the room or space accommodates more than 500 persons but not more than 1000 persons, 20 receivers plus 1 receiver for every 33 persons or part thereof in excess of 500 persons; and</li> <li>(C) if the room or space accommodates more than 1000 persons but not more than 2000 persons, 35 receivers plus 1 receiver for every 50 persons or part thereof in excess of 1000 persons; and</li> <li>(D) if the room or space accommodates more than 2000 persons, 55 receivers plus 1 receiver for every 100 persons or part thereof in excess of 2000 persons.</li> </ul>	As above.



#	ACCESS REQUIREMENT	COMMENTS
	(c) The number of persons accommodated in the room or space served by an inbuilt amplification system must be calculated according to <b>D1.13</b> .	Noted.
	(d) Any screen or scoreboard associated with a Class 9b building and capable of displaying public announcements must be capable of supplementing any public address system, other than a public address system used for emergency warning purposes only.	NA to subject design (assumed).

## 3.17 CARPARKING (NOT USED)

## 3.18 ACCESS TO PREMISES STANDARD

#	ACCESS REQUIREMENT	COMMENTS
3.18.1	<ul> <li>General</li> <li>Buildings to which Standards apply</li> <li>a new building, to the extent that the building is a (specified) Class 1b, Class 2 building (short-term rent) or a Class 3, 5, 6, 7, 8, 9 or 10 building.</li> <li>a new part, and any affected part (see definitions below) of a building, to the extent that the building is a (specified) Class 1b, Class 2 building (short-term rent) or a Class 3, 5, 6, 7, 8, 9 or 10 building.</li> <li>A part of a building is a new part of the building if it is an extension to the building or a modified part of the building (refer to the Access to Premises Standards for full details).</li> <li>An affected part is:</li> </ul>	The entrances to the existing buildings have been designed to be accessible as required.



#	ACCESS REQUIREMENT	COMMENTS
	(a) the principal pedestrian entrance of an existing building that contains a new part; and (b) any part of an existing building, that contains a new part, that is necessary to provide a continuous accessible path of travel from the entrance to the new part.	
3.18.2	Lessee Concession  Lessees  (1) If the lessee of a new part of a building submits an application for approval for the building work, the following people do not have to ensure that the affected part of the building complies with these Standards:  (a) the building certifier; (b) the building developer; (c) the building manager.  (2) Subsection (1) does not apply if a building with a new part is leased to only 1 person.	NA – lessee concession not applicable to subject building works.
3.18.3	Existing Lift Upgrade/Concessions  Lift concession	NA - lift concession not applicable to subject building works.
	The requirement in Table E3.6 (b) of the Access Code that a lift is to have a floor dimension of not less than 1 400 mm x 1 600 mm does not apply to an existing passenger lift that is in a new part, or an affected part, of a building, if the lift:  (a) travels more than 12 m; and  (b) has a lift floor that is not less than 1 100 mm by 1 400 mm.	
3.18.4	Existing Toilet Upgrade/Concessions	NA- this concession is not proposed to be used.
	(1) Paragraphs F2.4 (c) and (e) of the Access Code, to the extent that they require compliance with AS 1428.1—2009, Design for access and mobility, Part 1: General requirements for access—New building work, do not apply to the following:  (a) existing accessible sanitary compartments;	
	(b) existing sanitary compartments suitable for use by people with a disability.	



#	ACCESS REQUIREMENT	COMMENTS
	<ul> <li>(2) For subsection (1) to apply, a sanitary compartment mentioned in paragraph (a) or (b) must:         <ul> <li>(a) comply with AS 1428.1—2001, Design for access and mobility, Part 1: General requirements for access—New building work; and</li> <li>(b) be located in either a new part, or an affected part, of a building.</li> </ul> </li> </ul>	

## 3.19 ADAPTABLE HOUSING (NOT USED)



# 4.0 CONCLUSION

This report has assessed the **Development Application Stage** design documentation for the **proposed Upper Australia & Nocturnal House Refurbishment** at **Taronga Zoo – Bradleys Head Road NSW** under the relevant Regulations relating to "Access for People with Disabilities".

The primary purpose of the report is to assess the proposed/new development works against the Access Regulations, identify any non-compliance matters and to provide suitable recommendations to ensure the compliance of the design.

Subject to the recommendations of this report, the development demonstrates an ability to comply with the relevant provisions relating to the provision of access and facilities for people with disabilities:

Significant matters, being those with the ability to affect the design have been included in the
Table 1.0 in the Executive Summary.

 $\ \square$  All other informational recommendations are included in Table 3.0 of this report.

The design team should review the recommendations of this report and ensure the design documentation adequately addresses the recommendations of this report. Further reviews by MSA can/will be undertaken on the documentation as directed by our client.