





Project: Library & Community Hub, 30 - 32 Miller Street Gilgandra

Document Type: Access Design Assessment Report

Our Reference: P220\_458-2 (ACCESS) KG

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## Revision History—

OUR REFERENCE	REMARKS	ISSUE DATE
P220_458-1 (ACCESS) KG	Draft report issued to client	17 May 2021
P220_458-2 (ACCESS) KG	FINAL report issued to client	03 June 2021



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## **EXECUTIVE SUMMARY**

This Access Design Assessment Report has been prepared by Design Confidence at the request of Dunn & Hillam Architects and relates to the proposed Library & Community Hub located at 30-32 Miller Street, Gilgandra.

Based upon our assessment to date we are of the opinion that the subject development is capable of achieving compliance with the accessibility provisions of the BCA, either by complying with the prescriptive requirements or via a performance-based approach.

With respect to the assessment undertaken, the following items shall be reviewed further as the project develops—

ITEM	DESCRIPTION	RESPONSIBILITY
1.	As design progresses, further details shall be provided to ensure compliance with the requirements of the BCA / AS1428.1-2009 is achieved, such as:	
	a. Stairway and walkway details;	
	b. Tactile and visual indicator details;	Project Architect
	c. Door and door hardware details;	,
	d. Wet area (sanitary facilities) details;	
	e. Signage details;	
	f. Hearing augmentation details.	



#### 1.0 INTRODUCTION

#### 1.1 General

This report has been prepared at the request of Dunn & Hillam Architects and relates to the proposed Library & Community Hub located at 30-32 Miller Street, Gilgandra.

Gunnedah Shire Council is planning to redevelop the existing building and convert it into a new library and cultural center.

In the context of this report and the BCA the building use can be described as follows—

CLASSIFICATION	DESCRIPTION
Class 9b	Assembly buildings

#### STOREYS CONTAINED (INCLUDING BASEMENT LEVELS)

One (01)

Library & Community Hub

#### 1.2 Purpose of Report

The purpose of this report is to identify the extent to which the architectural design documentation complies with the *accessibility provisions* of the National Construction Code – Building Code of Australia Volume 1, Edition 2019 Amendment 1 (hereinafter referred to as the BCA), as are principally contained within Parts D3, E3.6, F2.4 and F2.9.

This report is based upon, and limited to, the information depicted in the documentation provided for assessment and does not make any assumptions regarding design intention or the like.

#### 1.3 Documentation Provided for Assessment

This assessment is based upon the architectural documentation prepared by Dunn & Hillam Architects and listed within **Appendix 1**.

#### 1.4 Limitations

This report is based upon, and limited to, the information depicted in the documentation provided for assessment and does not make any assumptions regarding design intention or the like.

This assessment does not contain comments regarding detailed design issues such as (but not limited to): luminance contrast, slip resistance, handrail design, door schedule and door hardware specification, hearing augmentation systems, location of fittings within sanitary compartments.

#### 1.5 Report Exclusions

It is conveyed that this report should not be construed to infer that an assessment for compliance with the following has been undertaken—

- (i) Work Health & Safety Act and Regulations; and
- (ii) Work Cover Authority requirements; and
- (iii) Structural and Services Design Documentation; and



- (iv) The Disability Discrimination Act (DDA) 1992; and
- (v) Any parts of the BCA or any standards other than those directly referenced in this report.

## 1.6 BCA Assessment – Interpretation Notes

To provide the reader with additional context the following information regarding assessment methodology used in this assessment is provided below—

- (i) The following rooms / areas and associated accessways have been afforded the concession under D3.4 and access for people with disabilities need not be provided to these areas—
  - Plant and equipment;
  - Cleaners' storage and storage rooms.
- (ii) The building is existing, therefore this report applies to new works and the affected part, as defined by the *Disability (Access to Premises Buildings) Standards 2010*, hereinafter referred to as the Premises Standards;
- (iii) Movable furniture is the ongoing responsibility of the occupants who should maintain appropriate circulation spaces between and around furnishings;
- (iv) The internal fit out has not been included in this assessment.
- (v) This assessment refers to the Gilgandra library and community hub works only. For an assessment of the Gilgandra Library Plaza Upgrade, refer to the Access Design Assessment Report prepared by Design Confidence [ref. P220\_458-1.1 (ACCESS PLAZA) KG] issued on 24 May 2021.



#### 2.0 BCA ACCESS DESIGN ASSESSMENT SUMMARY

## 2.1 Interpretation

The following tables summarise the compliance status of the architectural design in terms of each *applicable* prescriptive provision of the BCA and indicates a *capability for compliance* ('COMPLIES') with the accessibility provisions of the BCA.

A detailed analysis and commentary are provided in **Section 3.0** of this report in the instance that prescriptive non-compliance occurs ('DOES NOT COMPLY') or further 'DESIGN DETAIL' is required. Such instances should not necessarily be considered BCA deficiencies, but rather matters which need to be considered by the design team, the certifying authority and all other relevant stakeholders as design progresses.

## 2.2 Part D3 - Access for People with a Disability

	BCA CLAUSE	COMPLIES	DOES NOT COMPLY	DESIGN DETAIL
D3.1	General building access requirements			✓
D3.2	Access to buildings			✓
D3.3	Parts of buildings to be accessible			✓
D3.5	Accessible carparking			✓
D3.6	Signage			✓
D3.7	Hearing augmentation			✓
D3.8	Tactile indicators			✓
D3.9	Wheelchair seating spaces		N/A	
D3.10	Swimming pools		N/A	
D3.11	Ramps		N/A	
D3.12	Glazing on an accessway			✓

## 2.3 Part E3.6 – Passenger Lifts

	BCA CLAUSE	COMPLIES	DOES NOT COMPLY	DESIGN DETAIL
E3.6	Passenger lifts		N/A	

#### 2.4 Part F2.4 – Accessible Sanitary Facilities

	BCA CLAUSE	COMPLIES	DOES NOT COMPLY	DESIGN DETAIL
F2.4	Accessible unisex sanitary compartments			✓
F2.4	Sanitary facilities for people with ambulant disabilities			✓

#### 2.5 Part F2.9 – Accessible Adult Change Facilities

	BCA CLAUSE	COMPLIES	DOES NOT COMPLY	DESIGN DETAIL
F2.9	Accessible adult change facilities		N/A	



#### 3.0 BCA DETAILED ASSESSMENT

#### 3.1 General

With reference to the BCA Access Design Assessment Summary contained in **Section 2.0** above, the following analysis and commentary is provided.

In all instances, reference is also made to **Appendix 2**, which contains design guidance and other items which shall be coordinated by the relevant stakeholders as design progresses to ensure compliance with the deemed-to-satisfy (DtS) accessibility provisions of the BCA is achieved.

Furthermore, the analysis below contains preliminary advice regarding opportunities for the implementation of a performance-based approach in lieu of complying with the prescriptive (DtS) provisions of the BCA.

## 3.2 Part D3 - Access for People with a Disability

#### 3.2.1 <u>Clause D3.1 – General building access requirements</u>

BUILDING CLASS	ACCESSIBILITY REQUIREMENTS
Class 9b	Access is required to be provided to and within all areas normally used by the occupants, including to wheelchair seating spaces provided in accordance with Clause D3.9. Access is not required to be provided to tiers/platforms of seating areas that do not contain wheelchair seating spaces.

## 3.2.2 <u>Clause D3.2 - Access to buildings</u>

An accessways to Gilgandra Library and Community Hub is provided from Miller Street and from the rear of the library via a 1:35 walkway or stairways.

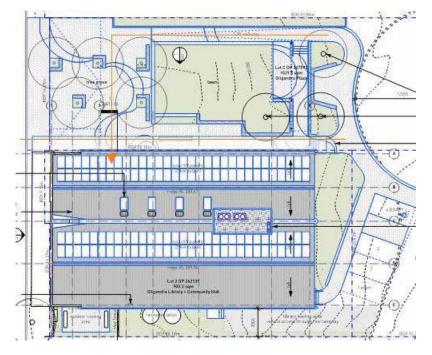


Figure 1 - Pedestrian Entries



DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
Walkway 1:35	No levels provided for assessment of the walkway.	Provide RL levels on the drawings for further review and comment.
External Stairways	Stairways have not yet been detailed with all the required	Stairway to comply with AS1428.1-2009.
features and fixings.		Level of detail provided is suitable for this stage. As design progresses, provide detailed drawings for review and comment.
Entry doors – Door circulation space	The entry doors are believed to be automated. In case the doors are not automated ensure appropriate door circulation space, compliant with AS1428.1-2009.	N/A

Refer to **Appendix 2** below for further design guidance.

## 3.2.3 <u>Clause D3.3 - Parts of the building to be accessible</u>

Accessible paths of travel throughout the building appear to be capable of achieving compliance with BCA Clause D3.3 and AS1428.1-2009.

The following comment is provided in regards the requirements of Clause D3.5 of the BCA—

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
Business incubator - Entry	Business incubator is presented with two entry points, first one being from the library – accessible entry and second one, being from the Miller Street frontage – a non-accessible entry due to a step at the doorway.	Ensure the accessible entry through the library (being less than 50m away from the street entry) is provided with appropriate directional signage showing the accessible entry.
		Ensure that the accessible entry to the business incubator (through the library) is open during operational business hours of the incubator.

Refer to **Appendix 2** below for further design guidance.

#### 3.2.4 Clause D3.4 – Exemptions

Refer to **Section 1.6** above for areas afforded the concession under D3.4.

## 3.2.5 <u>Clause D3.5 - Accessible carparking</u>

Clause D3.5 of the BCA requires 1 accessible space for every 100 carparking spaces or part thereof.

The following comment is provided in regards the requirements of Clause D3.5 of the BCA—



DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
Accessible Carparking – Shared space	current drawings with an area of	Ensure a 2400x5400mm shared space is provided besides 2400x5400mm accessible car parking, compliant with AS/NZS 2890.6:2009.  Provide drawings for further review and comment.

Refer to **Appendix 2** below for further design guidance.

## 3.2.6 <u>Clause D3.6 – Signage</u>

Signage details have not yet been detailed within the design documentation.

The following comment is provided in regards the requirements of Clause D3.6 of the BCA—

DESCRIPTION	COMMENT	RESOLUTION
General	Signage has not yet been provided for assessment.	Signage will be required in accordance with the requirements of this clause.
		Level of detail provided is suitable for this stage. As design progresses, provide detailed drawings for review and comment.

Refer to **Appendix 2** below for further design guidance.

## 3.2.7 <u>Clause D3.7 – Hearing augmentation</u>

The following comment is provided in regards the requirements of Clause D3.7 of the BCA—

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
General		A hearing augmentation system will be required where an inbuilt amplification system (not being one for emergency warning only) is provided.

Refer to **Appendix 2** below for further design guidance.

#### 3.2.8 <u>Clause D3.8 - Tactile indicators</u>

Tactile indicators at stairways have not yet been detailed within the design documentation.

The following comment is provided in regards the requirements of Clause D3.12 of the BCA—

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
General	Tactile indicators have not yet been detailed within the design documentation.	Tactile indicators will be required in accordance with the requirements of this clause.
		Level of detail provided is suitable for this stage. As design progresses,



DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
		provide detailed drawings for review and comment.

Refer to **Appendix 2** below for further design guidance in this regard.

#### 3.2.9 <u>Clause D3.9 – Wheelchair seating spaces in Class 9b assembly buildings</u>

Not applicable.

#### 3.2.10 Clause D3.10 – Swimming pools

Not applicable.

#### 3.2.11 Clause D3.11 - Ramps

Not applicable.

#### 3.2.12 Clause D3.12 - Glazing on an accessway

Visual indicators have not yet been detailed within the design documentation.

The following comment is provided in regards the requirements of Clause D3.12 of the BCA—

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
General	Visual indicators have not yet been detailed within the design documentation.	Visual indicators will be required in accordance with the requirements of this clause.
		Level of detail provided is suitable for this stage. As design progresses, provide detailed drawings for review and comment.

Refer to Appendix 2 below for further design guidance.

#### 3.3 Part E3.6 – Passenger Lifts

Not applicable.

## 3.4 Part F2.4 – Accessible Sanitary Facilities

#### 3.4.1 <u>Accessible unisex sanitary facilities</u>

A total of two (02) accessible sanitary compartments have been provided within the subject development, one internally and one externally (Plaza) located.

Drawings indicate that compliance can be achieved with AS1428.1-2009. Level of detail provided is suitable for this stage. As design progresses, provide detailed drawings for review and comment.



The following comment are provided in regards the requirements of Clause F2.4 of the BCA relating to accessible sanitary facilities—

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
Internal accessible toilet - Door circulation space	Basin is encroaching in door circulation space.	Provide 300mm minimum between the basin and hinged door, complaint with AS1428.1-2009.
External accessible toilet - basin location	Basin is located 346mm from the adjacent wall.	Basin to be set minimum 425mm (cl) from the adjacent wall, complaint with AS1428.1-2009.

Refer to **Appendix 2** below for further design guidance.

#### 3.4.2 <u>Sanitary compartment for people with ambulant disabilities</u>

A total of four (04) sanitary compartments for people with ambulant disabilities have been provided within the subject development, two externally accessible from plaza and two inside the library.

Level of detail provided is suitable for this stage. As design progresses, provide detailed drawings for review and comment.

The following comment are provided in regards the requirements of Clause F2.4 of the BCA relating to sanitary facilities for people with ambulant disabilities—

DESCRIPTION	COMPLIANCE DEPARTURE	RESOLUTION
Internal ambulant toilets - Circulation space	Ensure that basins do not encroach into the 900x900mm circulation space required in front of the door, compliant with AS1428.1-2009.	N/A

Refer to **Appendix 2** below for further design guidance.

#### 3.5 Part F2.9 – Accessible Adult Change Facilities

Not applicable.



## 4.0 CONCLUSION

#### 4.1 General

Our strategy for ensuring compliance will be refined and documented during the design process in conjunction with the continual development of the architectural documentation, as required.

Based upon our assessment to date we are of the opinion that the subject development is capable of achieving compliance with the relevant accessibility provisions of the National Construction Code – Building Code of Australia Volume 1, Edition 2019, subject to the comments provided in **Section 3.0** and the design detail contained in **Appendix 2**.

Compliance can be achieved either by meeting the deemed-to-satisfy requirements of the BCA, as are principally contained within Parts D3, E3.6, F2.4 and F2.9, or via a performance-based approach.

We trust that the above information is sufficient for the consent authority in assessing the merit of the architectural design from a planning perspective.

Report By Verified By

Katja Gavran

Access Consultant

For Design Confidence (Sydney) Pty Ltd

Luke Sheehy **Principal** 

For Design Confidence (Sydney) Pty Ltd



# APPENDIX 1 – Documentation Provided for Assessment

This accessibility assessment was based upon the architectural documentation prepared by Dunn & Hillam Architects namely—

DRAWING	REV	TITLE	DATE
DA01-05		Ground Floor Plan	02.06.2021
DA01-06		Section	02.06.2021
DA01-07		North + East Elevation	02.06.2021
DA01-08		South + West Elevation	02.06.2021



# APPENDIX 2 - Design Checklist - Prescriptive Requirements

The following design guidance checklist is provided for implementation and coordination during construction in order to achieve compliance with the prescriptive requirements of the BCA, AS1428.1-2009, AS/NZS1428.4.1:2009.

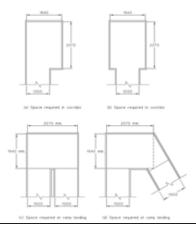
1.	ACCESS TO BUILDINGS
1.1.	Provide an accessible path of travel compliant with AS1428.1-2009 from all main pedestrian entry points at the site boundary to the principal pedestrian entrance/s of the building.
1.2.	<ul> <li>Where a building is afforded with multiple pedestrian entries, an accessway shall be provided through and through:</li> <li>(i) The principal pedestrian entrance (PPE); and</li> <li>(ii) Not less than 50% of pedestrian entrances, including the PPE.</li> </ul>
	<ul> <li>Where the building area is greater than 500m<sup>2</sup>:</li> <li>(i) A non-accessible pedestrian entrance shall not be located more than 50m from an accessible pedestrian entrance.</li> </ul>
1.3.	Provide an accessible path of travel compliant with AS1428.1-2009 from another building connected by a pedestrian link (not being the public footpath) within the allotment.
1.4.	Provide an accessible path of travel compliant with AS1428.1-2009 from accessible car parking spaces on the site.
1.5.	An accessible path of travel/accessway shall be in accordance with AS1428.1-2009 as applicable.  Note: this includes requirements relating to floor finishes, stairway, ramps, doorways etc. Refer to the relevant section below for further detail.

2.	PATHS OF TRAVEL
2.1.	A continuous accessible path of travel shall not include a step, stairway, turnstile, revolving door, escalator, moving walk or the like.
2.2.	Provide 1000mm minimum clear width of path of travel compliant with AS1428.1-2009.  Note: the width of the path of travel shall be taken clear of any obstructions, such as handrails, kerb rails, skirting, fire hose reels, fire extinguishers or the like.
2.3.	The minimum unobstructed height of a continuous path of travel shall be 2000mm or 1980mm at doorways.
2.4.	An accessway shall be provided with turning spaces in accordance with the BCA and AS1428.1-2009 where required.
2.5.	A turning space not less than 1500 x 1500mm is required to allow for a 60-90° turn on the accessway. A splay across the internal corner is permitted in accordance with Figure 4 of AS1428.1-2009.
	Turn 60° in path of travel Contrid 60° in path of the avel

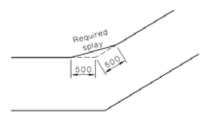


#### PATHS OF TRAVEL

- 2.6. A turning space not less than 1540mm W x 2070mm L in accordance with Figure 5 of AS1428.1-2009 shall be provided:
  - (i) to allow for a 180° turn on the accessway;
  - (ii) along pathways at maximum 20m intervals;
  - (iii) at corridor ends, within 2m of the corridor end.

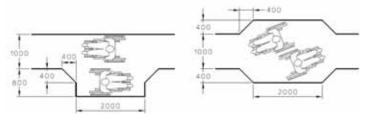


2.7. Where the width of the path of travel is less than 1200mm, a minimum 500x500mm splay is required to allow for a 30 to <60° turn on the accessway in accordance with Figure 4 of AS1428.1-2009.



Turn 30° to <60° in path of travel less than 1200 mm wide

2.8. A passing space not less than 1800mm W x 2000mm L is required along pathways at maximum 20m intervals where a direct line of sight is not available.



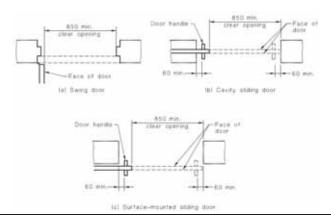
- 2.9. Floor finishes and abutment of surfaces shall be in accordance with Clause 7 of AS1428.1-2009. Note: Reference is made to BCA Clause D2.14 in regards slip resistance requirements.
- 2.10. Where carpet or similar soft flexible flooring surface is proposed, the pile height shall be no more than 11mm with 4mm max backing surface.
- 2.11. Ensure drainage grates on accessible path of travel have openings no more than 13mm wide (or 13mm diameter).Slotted openings shall be oriented such that the long dimension is transverse to the direction of travel.
- 2.12. Where recessed matting is proposed, it shall be in accordance with Clause 7.4.2 of AS1428.1-2009.



#### 3. DOORS

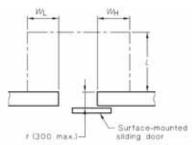
- 3.1. Every door and/or gate on the accessway shall be in accordance with Clause 13 of AS1428.1-
- 3.2. Minimum 850mm clear opening width (generally required 920mm door leaf), measured from the face of the door to the door stop.

Note: where double doors are proposed, at least the active/operable leaf shall achieve the minimum 850mm clear opening width.



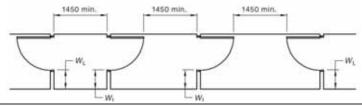
- 3.3. A minimum 30% luminance contrast shall be provided at doorways for ease of visual identification for people with vision impairment. The contrasting area (e.g. wall, architrave etc.) must have minimum 50mm width.
- 3.4. Every door and/or gate on the accessway shall be provided with circulation space on both sides to allow for operation of the door.
- 3.5. Circulation spaces shall be not steeper than 1:40. Refer to Figure 31 (hinged doors) and Figure 32 (sliding doors) of AS1428.1-2009 for the minimum required depth, latch-side and hinge-side circulation spaces as applicable.
- 3.6. Where surface-mounted sliding doors are proposed, the circulation spaces shall be increased by a factor of *t* as shown in Figure 33 of AS1428.1-2009.

Note: The factor t is the wall thickness to the face of the door.



Door approach	Increase from Figure 32		
Figure 32(a)	Add dimensions $t$ to dimensions $W_{\rm L}$ and $W_{\rm H}$		
Figure 32(a), 32(b), 32(c)	Add dimensions $t$ to dimensions $L$ , $W_{\rm L}$ and $W_{\rm p}$		

3.7. Provide minimum 1450mm length between successive door swings in airlocks/vestibules or other similarly enclosed spaces on accessible path of travel.

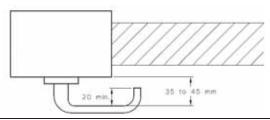


- 3.8. All fully glazed doors and surrounding glazing (including glazed walls with no transom or similar) shall be clearly marked with 75mm min. wide, solid, non-transparent, contrasting line across their full width. The lower edge of line must be between 900-1000mm FFL and have 30% luminance contrast when viewed against floor or background surface within 2m of glazing.
- 3.9. Door hardware shall:



#### 3 DOORS

- (i) be a type that allows the doors to be operated with one hand;
- (ii) allow for adequate grip for people with hand impairments;
- (iii) have a clearance between the handle and the backplate or door face of 35-45mm;
- (iv) where snibs are installed, have a lever handle with minimum 45mm length form the centre of the spindle.



#### 3.10. Door controls shall be located:

- (i) Door handles: 900-1100mm above FFL:
- (ii) Panic bars on egress routes: 900-1200mm above FFL;
- (iii) Intercoms, push buttons and the like: 900-1250mm above FFL and minimum 500mm from an internal corner;
- (iv) Handles on sliding doors shall be not less than 60mm from the door jamb or doorstop in the open or closed position;
- (v) Manual controls to power-operated doors (push buttons) shall be 1-2m from the door leaf (hinged or cavity-sliding doors) or clear of a surface-mounted sliding door in the open position.

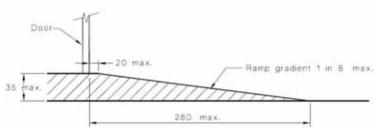
Note 1: this is not applicable in early childhood centres, swimming pools and the like.

Note 2: Per BCA 2019 Clause D2.21, push buttons for emergency release power operated doors shall comply with item (iv) above. Braille and tactile signage in accordance with Clause 3 and 6 of Spec. D3.6 of the BCA is also required.

3.11. Door operational forces shall be not more than 20 N.

Note: If this cannot be achieved, the subject door shall be automated, or power operated.

3.12. A threshold ramp may be employed to address a maximum 35mm rise / FFL difference. Threshold ramp shall be in accordance with Clause 10.5 of AS1428.1-2009.



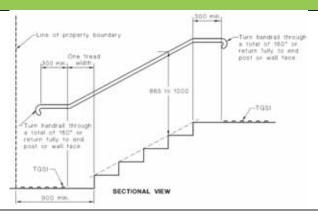
Note: Where ramp edges are not enclosed by walls/other side barrier, ensure ramp edges are splayed at 45 degrees.

#### 4. STAIRWAYS

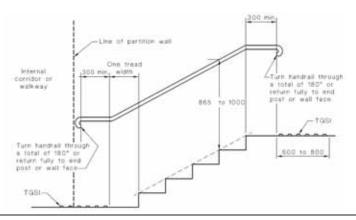
- 4.1. The requirements of this section shall apply to all stairways for general circulation and to external (non-fire isolated) egress stairways.
- 4.2. Stairs located at site boundary shall be recessed (900mm min. from boundary) to allow required handrail extensions and TGSI's to not protrude into transverse path of travel.



#### 4. STAIRWAYS



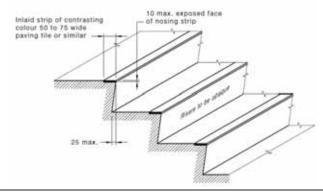
- 4.3. Stairs adjacent to internal corridors shall be recessed to allow required handrail extensions & termination to not protrude into transverse path of travel. The set-back shall be:
  - (i) 1 tread width plus handrail extension/turn down (approx. 650mm) at the bottom of a flight of stairs;
  - (ii) Handrail extension/turn down (approx. 400mm) at the top of a flight of stairs.



- 4.4. Minimum 1m clearance required between handrails.
- 4.5. Stairways shall have closed risers.
- 4.6. Stair nosings shall not project beyond the face of the riser. Risers shall be vertical or splay backwards a max. 25mm.
- 4.7. In order to achieve consistent height of the handrail along stairways, an offset tread is required at the bottom of the flight, as shown in Figure 28 of AS1428.1-2009.
- 4.8. Handrails compliant with Clause 12 of AS1428.1-2009 shall be provided to both sides of stairs. Refer to handrail section below for handrail requirements.
- 4.9. Handrail extensions are required at landings in accordance with the above:
  - (i) At the top of a flight of stairs: min. 300mm horizontal extension past the nosing;
  - (ii) At the bottom of a flight of stairs: one tread depth parallel to the line of nosings + min. 300mm horizontal extension;
  - (iii) Where the inner handrail is continuous at landings, the 300mm horizontal handrail extension is not required.
- 4.10. Provide warning tactile ground surface indicators (TGSI's) stairs landings in accordance with AS/NZS1428.4.1:2009. Refer to TGSIs section below for TGSI's requirements.
- 4.11. Provide contrasting step nosing strips on all stair treads compliant with AS1428.1 as follows:
  - (i) Step nosing strips to be across full width of stair, between 50-75mm wide, in a continuous colour solid strip with 30% luminance contrast to background surface.
  - (ii) Step nosing strips to be located on edge of tread (15mm max. setback if applied) and not extend onto risers more than 10mm. (if exposed).

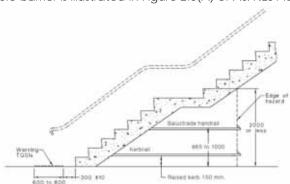


#### 4. STAIRWAYS



4.12. Where people can traverse under open stairs, a suitable barrier to the underside of the stairs shall be provided such that people do not traverse where the headroom is less than 2 meters.

An example of a suitable barrier is illustrated in Figure 2.6(A) of AS/NZS1428.4.1:2009.



5.	WALKWAYS
5.1.	1:20 walkways shall have suitable landings at 15m maximum intervals.  Note: for gradients other than 1:20, the maximum interval between landings shall be confirmed with Design Confidence.
5.2.	Walkways shallower than 1:33 are not required to be provided with landings.
5.3.	<ul> <li>Landings shall be:</li> <li>(i) Minimum 1200mm length where there is no change in direction;</li> <li>(ii) Where there is a change in direction, refer to Section 2 – Paths of Travel above;</li> <li>(iii) Where there is a doorway, the landing shall be capable of accommodating the required doorway circulation spaces.</li> </ul>
5.4.	<ul> <li>A suitable barrier (edge protection) shall be provided to both sides of the walkway. Suitable barriers include:</li> <li>(i) Floor/ ground surface to extend 600mm min. width at same grade in firm and level of the walkway surface, being of a different material;</li> <li>(ii) Kerb in accordance with Figure 18 of AS1428.1-2009;</li> <li>(iii) Kerb rail + handrail in accordance with Figure 19 of AS1428.1-2009;</li> <li>(iv) Low wall min. 450mm height.</li> <li>Note: The top of kerbing must not be within 75-150mm range above FFL to minimise risk of wheelchair footplate entrapment.</li> </ul>
5.5.	Curved walkways have 1500mm min. clear width. The minimum inside radius shall be in with Figure 20 of AS1428.1-2009.

## 6. HANDRAILS

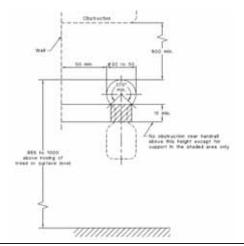
6.1. All stairs and ramps shall be provided in accordance with Clause 12 of AS1428.1-2009, including fire-isolated stairways and ramps.

Note: for stairs/ramps in areas afforded the concession under D3.4, handrails are only required to comply with Clause D2.17 of the BCA.

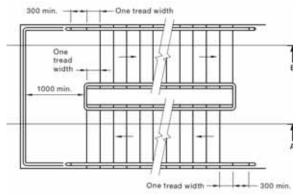


#### 6. HANDRAILS

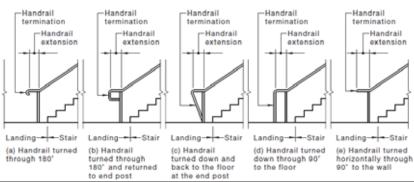
6.2. The cross section of handrail shall be circular/elliptical handrails have 30mm - 50mm diameter, with 270-degree clear arc around top of handrail (extending for 600mm min. height) compliant with Figure 29 of AS1428.1-2009.



- 6.3. Handrails shall be installed at a consistent height between 865mm 1000mm height above step nosing or FFL ramp surface.
  - NB. The specified height should allow for construction tolerance as outside of this range will be non-compliant.
- Where a balustrade for fall protection is required at a height above 1m, both the balustrade and the handrails shall be provided.
- 6.5. Handrails shall have no vertical sections.
- In order to achieve consistent height of the handrail along stairways, an offset tread is required at the bottom of the flight, as shown in Figure 28 of AS1428.1-2009.

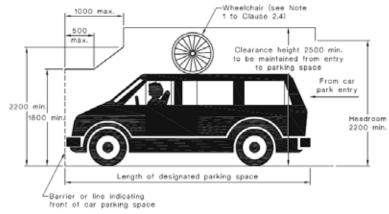


- 6.7. Handrails shall be installed no less than 50mm away from an adjacent side wall/ obstruction (finger clearance).
- 6.8. Refer to Stairs and Ramps sections for the requirements relating to handrail extensions.
- 6.9. Handrail ends shall be turned through a total of 180° OR to the ground OR returned fully to the end post/wall face. Suitable handrail ends are shown in Figure 26 (C) of AS1428.1-2009.

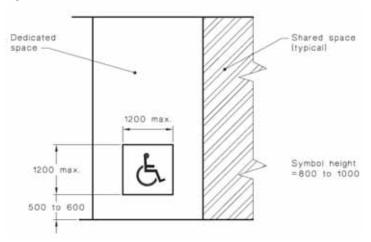




	DESIGN CONFIDENCE					
6.	HANDRAILS					
	Note: fire-isolated stairs and ramps are not required to be provided with handrail extensions at landings, however handrail ends shall be in accordance with Figure 26 (C) of AS1428.1-2009 as shown above.					
6.10.	The inner handrail shall always be continuous at landings.					
7.	ACCESSIBLE PARKING					
7.1.	<ul> <li>Minimum required dimensions:</li> <li>(i) Dedicated parking space shall be 2400mm W x 5400mm L (minimum);</li> <li>(ii) A shared area shall be provided to one side of the dedicated parking space, being 2400mm W x 5400mm L (minimum);</li> <li>(iii) A shared area shall be provided at one end of the parking space, being 2400mm W x 2400mm L.</li> </ul>					
7.2.	The ground surface shall be firm, plane, slip resistant and traversable by people with disabilities (hence surfaces such as loose gravel and grass are not acceptable).					
7.3.	Accessible parking spaces and shared areas shall at the same grade and the ground surface shall be not steeper than 1:40 (1:33 for external bitumen surfaces is acceptable).					
7.4.	Vertical clearance leading to the accessible parking spaces shall be not less than 2200mm.					
7.5.	Vertical clearance at the accessible parking spaces and associated shared areas shall be not less than 2500mm.  Note: reduced headroom may be permitted in accordance with Figure 2.7 of AS/NZS2890.6:2009.					
	73/ NZ3Z590.0.2007.    1000 max.   Wheelchair (see Note   1 to Clause 2.4)					



An accessible parking space shall be provided with pavement markings for identification, being the white symbol of access inside a blue rectangle with dimensions in accordance with Figure 3.1 of AS/NZS2890.6:2009.

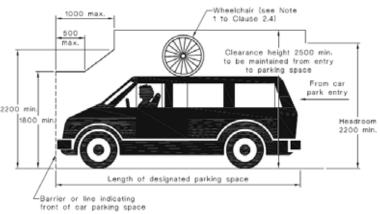


- (i) Line markings shall be yellow, have a slip resistance surface and shall not be raised;
- (ii) The parking spaces and shared areas shall be outlined on all sides with an unbroken line 80-100mm wide, except where delineated by a kerb, barrier or wall;
- (iii) The shared areas shall be marked with diagonal stripes at an angle 45±10° to the side of the space. The diagonal stripes shall be 150-200mm wide and spaced 200-300mm;



6.	HANDRAILS
	(iv) No shared area markings shall be placed in trafficked areas (this is generally applicable to the 2400x2400mm shared area).
	Note: the requirement for space identification is not applicable where:  a. A total of not more than 5 parking spaces is provided;
	b. An accessible parking space is privately owned parking space for people with disabilities associated with a single residence and intended primarily for use by the occupants of that residence (i.e. adaptable units).
7.7.	A bollard shall be provided within the shared area located in accordance with Figure 2.3 of AS/NZS2890.6:2009.
7.8.	Residential accessible parking spaces are subject to the requirements of AS4299-1995.  Note: a parking space 3800mm W x 5400mm L is generally suitable for adaptable units.

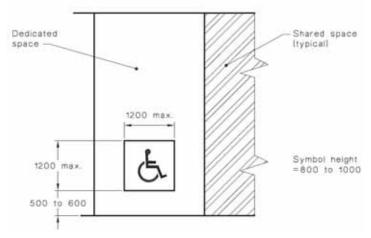
#### 8.1. Minimum required dimensions: (iv) Dedicated parking space shall be 2400mm W x 5400mm L (minimum); (v) A shared area shall be provided to one side of the dedicated parking space, being 2400mm W x 5400mm L (minimum); (vi) A shared area shall be provided at one end of the parking space, being 2400mm W x 2400mm L. The ground surface shall be firm, plane, slip resistant and traversable by people with disabilities 8.2. (hence surfaces such as loose gravel and grass are not acceptable). 8.3. Accessible parking spaces and shared areas shall at the same grade and the ground surface shall be not steeper than 1:40 (1:33 for external bitumen surfaces is acceptable). Vertical clearance leading to the accessible parking spaces shall be not less than 2200mm. 8.4. 8.5. Vertical clearance at the accessible parking spaces and associated shared areas shall be not less than 2500mm. Note: reduced headroom may be permitted in accordance with Figure 2.7 of AS/NZS2890.6:2009. -Wheelchair (see Note 1 to Clause 2.4) 1000 max



8.6. An accessible parking space shall be provided with pavement markings for identification, being the white symbol of access inside a blue rectangle with dimensions in accordance with Figure 3.1 of AS/NZS2890.6:2009.



#### ACCESSIBLE PARKING



- (v) Line markings shall be yellow, have a slip resistance surface and shall not be raised;
- (vi) The parking spaces and shared areas shall be outlined on all sides with an unbroken line 80-100mm wide, except where delineated by a kerb, barrier or wall;
- (vii) The shared areas shall be marked with diagonal stripes at an angle 45±10° to the side of the space. The diagonal stripes shall be 150-200mm wide and spaced 200-300mm;
- (viii) No shared area markings shall be placed in trafficked areas (this is generally applicable to the 2400x2400mm shared area).

Note: the requirement for space identification is not applicable where:

- c. A total of not more than 5 parking spaces is provided;
- d. An accessible parking space is privately owned parking space for people with disabilities associated with a single residence and intended primarily for use by the occupants of that residence (i.e. adaptable units).
- 8.7. A bollard shall be provided within the shared area located in accordance with Figure 2.3 of AS/NZS2890.6:2009.
- 8.8. Residential accessible parking spaces are subject to the requirements of AS4299-1995.

  Note: a parking space 3800mm W x 5400mm L is generally suitable for adaptable units.

#### 9. SIGNAGE

- 9.1. Braille and tactile signage will be required to:
  - (i) Identify each sanitary facility, including an accessible sanitary facility and a sanitary compartment suitable for people with ambulant disabilities;
  - (ii) Identify each space provided with hearing augmentation;
  - (iii) Within each space provided with hearing augmentation;
  - (iv) Identify each door required by BCA Clause E4.5 to be provided with an exit sign;
  - (v) Identify a sanitary compartment suitable for people with ambulant disabilities;
  - (vi) At entry doors to airlocks containing either accessible and/or ambulant WCs, identifying each facility provided within.
- 9.2. Braille and tactile directional signage will be required at:
  - A non-accessible pedestrian entrance to direct a person to the nearest accessible entrance;
  - (ii) A sanitary bank which is not provided with an accessible sanitary facility to direct a person to the nearest accessible sanitary facility.
- 9.3. Signage required to comply with Clause D3.6 of the BCA shall be in accordance with BCA Spec. D3.6 and Clause 8 of AS1428.1-2009.
- 9.4. Per BCA 2019, signage complying with Clause 3 and 6 of Specification D3.6 shall be provided to identify the latch-operation device (manual controls for power-operated doors).
- 9.5. At standard sanitary facilities, the signage shall include:
- (i) Minimum required message: "Male Toilet" or "Female Toilet", as applicable;



#### SIGNAGE

- (ii) Raised & visual versions of the male and female symbols;
- (iii) Braille that fully describes the information displayed by symbols and text.





- 9.6. At an accessible sanitary facility, the signage shall include:
  - (i) Minimum required message: "Unisex Toilet RH" or "Unisex Toilet LH" (as applicable)
  - (ii) Information if the toilet pan is suitable for RH or LH transfer;
  - (iii) Raised & visual versions of the international symbol of access;
  - (iv) Raised & visual versions of the male and female symbols;
  - (v) Braille that fully describes the information displayed by symbols and text.



- 9.7. At an ambulant sanitary compartment, the signage shall include:
  - (i) Minimum required message: "Ambulant Male Toilet" or "Ambulant Female Toilet", as applicable;
  - (ii) Raised & visual versions of the male and female ambulant symbols;
  - (iii) Braille that fully describes the information displayed by symbols and text.



- 9.8. At exits, the signage shall include:
  - (i) The word "Exit"; and
  - (ii) The word "Level" and the floor level number OR a floor level descriptor OR a combination of both the number and the descriptor;
  - (iii) Braille that fully describes the information display by text.
- 9.9. At the door to rooms/spaces provided with hearing augmentation, the signage shall include raised & visual versions of the international symbol of deafness.
- 9.10. Within the room/spaces provided with hearing augmentation, the signage shall include:
  - (i) The type of hearing augmentation;
  - (ii) The area covered within the room;
  - (iii) If receivers are being used & where they can be obtained.
- 9.11. Directional signage shall include:
  - (i) A wayfinding arrow that indicates the location of the subject accessible facility (being an accessible toilet or accessible entry);
  - (ii) Raised & visual versions of the international symbol of access;



#### SIGNAGE

- (iii) Raised text that describes the subject accessible facility;
- (iv) If the accessible path of travel to the subject accessible facility is on a different level, include a symbol to denote travel via lift (if applicable).



#### 9.12. Location of signage:

- (i) Braille and tactile components shall be at a height of 1200-1600mm above FFL; and
- (ii) On the wall on the latch-side of the door, leading edge of the sign 50-300mm from the architrave, except at ambulant sanitary facilities;
- (iii) Where b. is not possible, signage shall be on the door itself; and
- (iv) At ambulant sanitary facilities, the signage shall be placed on the door.
- 9.13. Minimum 30% luminance contrast between the wall/door to the backplate of the sign and between the backplate and the symbols, tactile and braille contained in the sign.

#### 10. HEARING AUGMENTATION

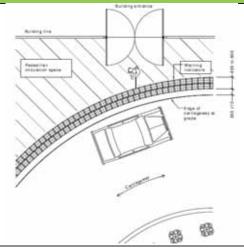
- 10.1. Provide hearing augmentation in the following areas if an inbuilt amplification system is installed (except one used for emergency warning systems only):
  - (i) Rooms in Class 9 buildings;
  - (ii) Auditoriums, conference and meeting rooms, judicatory, and;
  - (iii) Service counters screened to the public (e.g. reception, ticket/teller booths).
- 10.2. Hearing loops are required to at least 80% of floor area with inbuilt amplification system.
- 10.3. For Class 9b buildings, any screen or scoreboard that can display public announcements, to be capable of supplementing the public address system (excluding emergency warning only).

#### 11. TACTILE GROUND SURFACE INDICATORS (TGSIs)

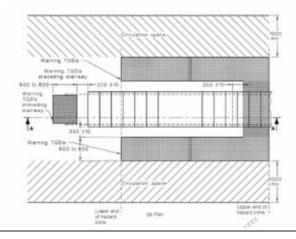
- 11.1. Ensure that TGSI's are slip-resistant and achieve minimum luminance contrast against background surface in accordance with the following:
  - (i) Integrated TGSI's (i.e. tiles) require 30% min. luminance contrast.
  - (ii) Discrete TGSI's (i.e. buttons) require 45% min. luminance contrast.
  - (iii) Composite TGSI's with 2 materials/colours requires 60% min. luminance contrast.
- 11.2. Ensure that warning TGSI's extend across the full width of the path of travel and commence 300mm from the edge of stairs, ramps etc.
  - Note 1: tactile indicators are **not** required where the gradient is not steeper than 1:20 (walkways) or at step ramps and kerb ramps.
  - Note 2: tactile indicators are not required at fire-isolated stairs and ramps.
  - Note 3: tactile indicators are required at external (non-fire-isolated) egress stairs and ramps.
- 11.3. Ensure that warning TGSI's have between 600mm 800mm depth at open areas, or at landings >3m length and/or when handrail is discontinuous.
- 11.4. Ensure that warning TGSI's have between 300mm 400mm depth at enclosed landings (<3m) when external handrail is discontinuous.
- 11.5. Where a pedestrian pathway and vehicular way are at the same level (i.e. no kerb provided), warning tactile indicators shall be provided.



#### 11. TACTILE GROUND SURFACE INDICATORS (TGSIs)

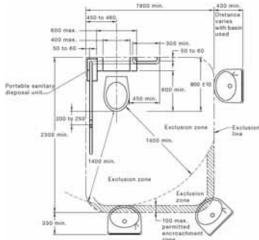


11.6. TGSI's may be provided in lieu of a barrier to the underside of stairs where the headroom is less than 2 meters.



#### 12. ACCESSIBLE SANITARY FACILITIES

- 12.1. Provide 1 unisex accessible toilet at each bank of male/female toilets on each storey compliant with BCA Table F2.4a.
  - NB. Where more than 1 toilet bank on each storey provide an accessible facility at 50% of banks.
- 12.2. Ensure a balance of left- and right-handed WC pans within the building.
- 12.3. Circulation space associated with the toilet pan min. 1900mm W x 2300mm L. The washbasin is permitted to encroach a max. 100mm within the WC circulation space in accordance with Figure 43 of AS1428.1-2009.

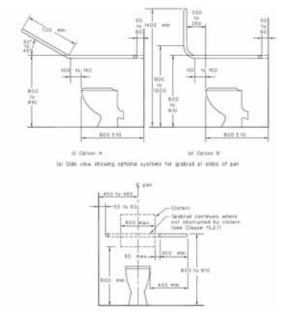




#### 12. ACCESSIBLE SANITARY FACILITIES

- 12.4. The required circulation spaces associated with toilet pan, washbasin, shower and door are allowed to overlap.
- The washbasin is permitted to encroach into the doorway circulation space, however a min. 300mm is required between the door swing (for a hinged door) and the washbasin.

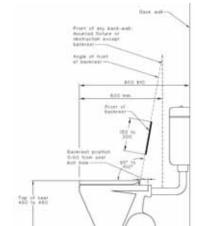
  Other fixtures such as toilet pan and shower seat are not allowed within the door circulation.
- 12.6. The centreline of the accessible toilet pan shall be 450-460mm from side wall.
- 12.7. Toilet projection from the back wall to the front of the toilet seat shall be 800mm ±10mm. *Note: This is a critical dimension.*
- 12.8. The height to top of the toilet seat shall be 460-480mm above FFL.
- 12.9. The toilet seat shall achieve 30% luminance contrast against background (e.g. pan, wall or floor surface).
- 12.10. Provide grabrails on wall of toilet at a height of between 800-810mm (to top of grabrail) above FFL.



Note: If concealed cistern used, WC grab-rails are to be continuous across side and rear walls. If exposed cistern used, rear grabrail to commence 50mm max. from cistern edge.

12.11. Provide angled toilet backrest (350-400mm W x 150-200mm H) installed between 120-150mm height from top of pan seat and 50mm max. distance from seat bolt hole.

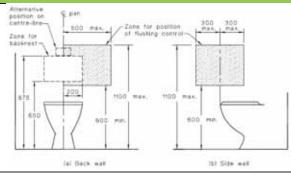
NB. No toilet lid to be provided as this impedes use of back rest.



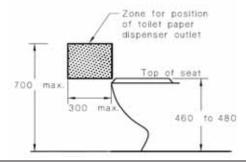
12.12. Flushing controls shall be located in accordance with Figure 40 of AS1428.1-2009.



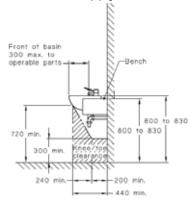
#### 12. ACCESSIBLE SANITARY FACILITIES



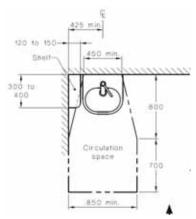
12.13. Toilet roll holder to be installed on adjacent wall to toilet at 600mm centre-line height from FFL within 300mm max. length from front of pan and no closer than 50mm to grabrail.



- 12.14. The centreline of the basin shall be min. 425mm from side wall.
- 12.15. The height of the basin shall be 800-830mm from FFL with lever action taps and insulation of water pipes.
- 12.16. Provide basin with a 430mm min. depth projection (from back wall to front of the basin) and suitable wheelchair knee/toe height clearance, compliant with Figure 44 of AS1428.1-2009. Knee/toe clearance shall be clear of water supply and/or sewage pipes.



12.17. Washbasin shall have min. 450mm width and circulation space in accordance with Figure 44 of AS1428.1-2009.



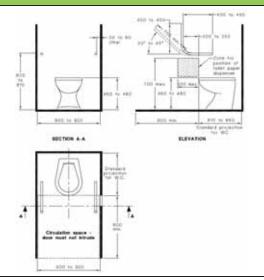


12.	ACCESSIBLE SANITARY FACILITIES
12.18.	300mm max. distance from the front of the basin to the operable part of taps.  Note: operable parts of taps shall be understood as the tap handle (for its full arc of operation)  OR the position where a sensor is reliably activated AND the water spout.
12.19.	Provide separate fixed shelf (120mm - 150mm W x 300mm - 400mm L) next to wash basin, installed at 900mm - 1100mm above FFL.  Shelf space may also be provided as a vanity top, min. 120mm W x 300mm L.
12.20.	Provision of soap dispenser, hand drier or paper towel dispenser shall be installed at a height of 900-1100mm to the operative component.  Note: it is recommended that soap dispenser and hand dryer/paper towel dispenser are within reach from the washbasin (for example, that would allow for a wheelchair user not to need to move away from washbasin to dry hands).
12.21.	Provide mirror above washbasin, with base installed at 900mm max. above FFL and extending to a height not less than 1850mm. The width of the mirror shall be min. 350mm.
12.22.	1 x clothes hanging device to be installed between 1200-1350mm from FFL and at least 500mm from an internal corner.
12.23.	Door shall include an in-use indicator and a bolt/catch that can be opened from outside in an emergency. If snib turn is used, the handle shall be 45mm min from centre.
12.24.	A baby change table (if provided) cannot impede into required circulation spaces (when folded up). The top of table to be installed at 820mm height with 720mm min. under bench clearance above FFL.
12.25.	Light switches to be installed 900-1100mm above FFL and 500mm min. from internal corner.
12.26.	GPO's to be installed 600-1100mm above FFL and 500mm min. from internal corner.
12.27.	Rocker action/toggle type switches at least 30mm x 30mm dimensions are required to assist people with dexterity impairment.

13.	AMBULANT SANITARY FACILITIES				
13.1.	Ambulant facilities for males and females shall be provided at each bank of toilets where there are one or more toilets in addition to an accessible WC.				
13.2.	Minimum 900mm x 900mm circulation area shall be provided between successive door swings in airlocks/vestibules on path of travel leading to ambulant toilets.				
13.3.	Minimum 900mm x 900mm circulation area shall be provided outside the ambulant cubicles.				
13.4.	The cubicle shall be between 900mm - 920mm clear width with WC pan centred (i.e. 450-460mm set out).				
13.5.	The cubicle door shall have a min. 700mm clear opening width.				
13.6.	900mm x 900mm clear area shall be provided in front of WC pan and clear of door swing.				
13.7.	Projection of WC (distance from back wall to the front of the seat) shall be 610-660mm.				
13.8.	Height to top of pan seat shall be 460-480mm above FFL.				
13.9.	Ambulant cubicle door shall be provided with in-use indicator and bolt/catch that is able to be opened from outside (in emergency). If snib catch used, the handle shall be 45mm min. length from centre.				
13.10.	Grabrails provided on both sides of cubicle at 800mm - 810mm height (to top of grabrail) from FFL.				
	Refer to Figure 53 (A) of AS1428.1-2009 for further guidance.				





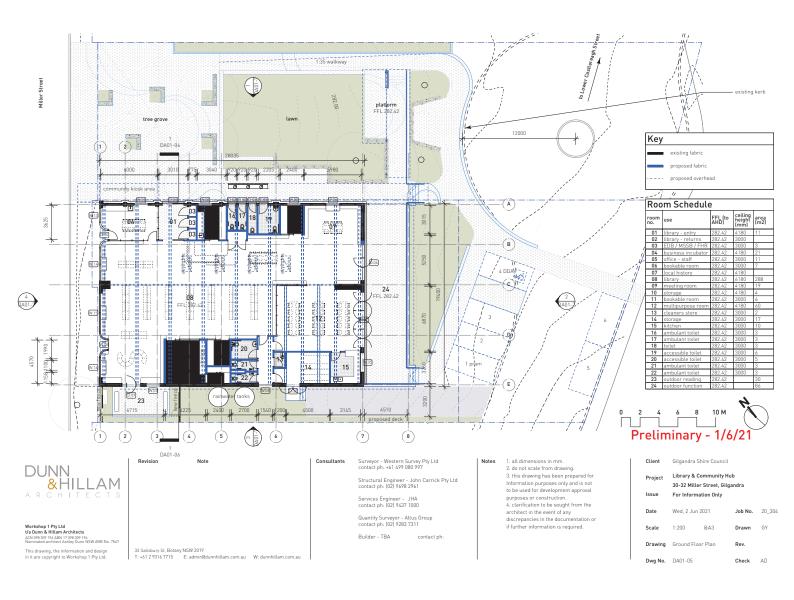


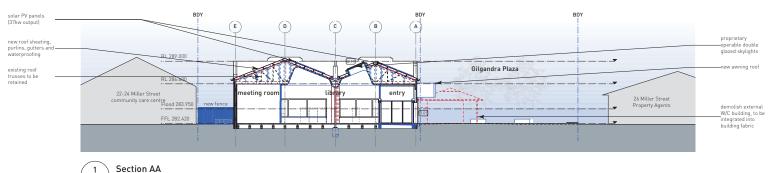
- 13.11. Toilet roll holder to be placed at 700mm max. height from FFL and 300mm max. distance from front of pan on adjacent wall, no closer than 50mm to grabrails.
- 13.12. Clothes hook to be installed between 1350mm 1500mm from FFL.

14.	GRABRAILS			
14.1.	Grabrails shall have 30-40mm outside diameter.			
14.2.	Grabrails shall be installed 800-810mm height to the top of grabrail.			
14.3.	Grabrails shall be able to withstand a force of 1100N applied at any position and in any direction.			
14.4.	The clearance between the face of the grabrail and the wall shall be 50-60mm (finger/knuckle clearance).			
14.5.	270-degree clear arc around top of handrail required (extending for 600mm min. height above the grabrails).			



# APPENDIX 3 – Drawing Mark-ups





Section AA 0A01-06 Scale: 1:200



## Surveyor - Western Survey Pty Ltd contact ph: +61 499 080 997 Structural Engineer - John Carrick Pty Ltd contact ph: (02) 9698 2961

Services Engineer - JHA contact ph: [02] 9437 1000

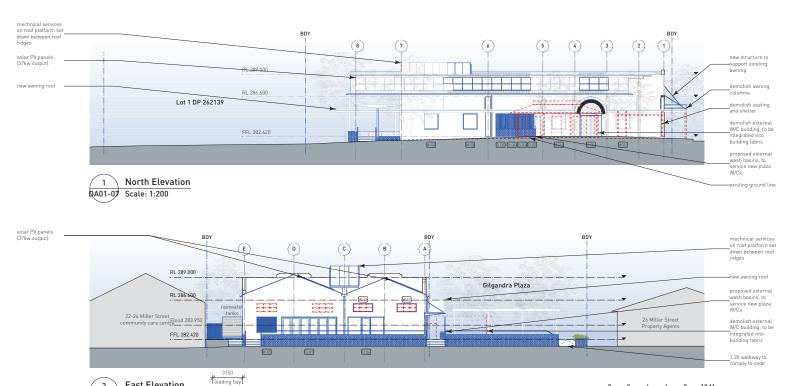
Quantity Surveyor - Altus Group contact ph: [02] 9283 7311

Builder - TBA contact ph:

all dimensions in mm.
 do not scale from drawing.
 this drawing has been prepared for Information purposes only and is not to be used for development approval purposes or construction.
 clarification to be sought from the architect in the event of any discrepancies in the documentation or if further information is required.

## Preliminary - 1/6/21

Client	Client Gilgandra Shire Council						
Project Issue	Library & Community Hub 30-32 Miller Street, Gilgandra For Information Only						
Date	Wed, 2 Jun 2021		Job No.	20_304			
Scale	1:200	@A3	Drawn	GY			
Drawing	Section		Rev.				
Dwg No.	DA01-06		Check	AD			





33 Salisbury St, Botany NSW 2019 T. +61 2 9316 7715 E: admini8dunnhillam.com.au W: dunnhillam.com.au

2 East Elevation QA01-07 Scale: 1:200

s Surveyor - Western Survey Pty Ltd contact ph. -61 499 080 977

Structural Engineer - John Carrick Pty Ltd contact ph. (02) 9498 2961

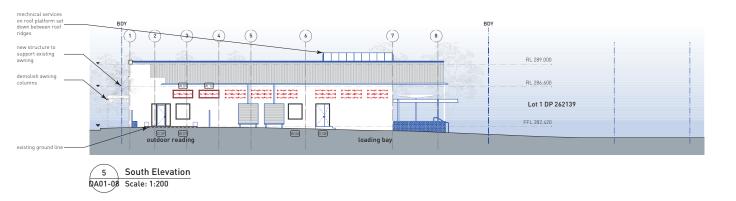
Services Engineer - JHA contact ph. (02) 9437 1000

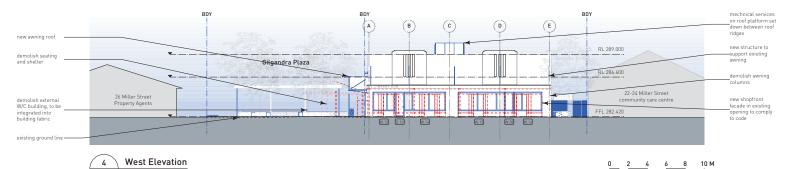
Quantity Surveyor - Altus Group contact ph. (02) 9283 7311

Builder - TBA contact ph.

1. all dimensions in mm.
2. do not scale from drawing.
3. this drawing has been prepared for Information purposes only and is not to be used for development approval purposes or construction.
4. clarification to be sought from the architect in the event of any discrepancies in the documentation or if further information is required.

Preliminary - 1/6/21







QA01-08 Scale: 1:200

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Preliminary - 1/6/21



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