



du CHATEAU CHUN

Accessibility Report

Catherine Field Public School O'Keefe Drive, Oran Park NSW

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Revision history

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Catherine Field Public School
O’Keefe Drive, Oran Park NSW

1. Introduction

This this accessibility report has been prepared on behalf of the Department of Education (DoE) and Schools Infrastructure NSW (SINSW) in support of a new school known as Catherine Field Public School, located in Oran Park, NSW (the project).

The project is a new school and is State Significant Development (SSD). The SSD Application for the project is identified as SSDA 9477. This accessibility report is to be read in conjunction with the Environmental Impact Statement (EIS) that accompanies SSDA 9477.

The project will provide modern public school infrastructure for the existing and future community to meet education needs. The project specifically will provide the following to accommodate up to 1,012 students at completion:

- General learning areas
- Multipurpose hall
- Covered Outdoor Learning Areas (COLA)
- Administration area
- Staff area including amenities
- Student amenities
- Library
- Canteen
- Storage
- Assembly court
- Landscaping
- Pedestrian circulation
- Vehicle circulation, bulk waste pad, staff car parking, bus zone and bicycle storage area
- Internal open space.

The NSW Department of Planning, Industry and Environment (now known as DPIE, and previously known as the Department of Planning and Environment) issued the Secretary’s Environmental Assessment Requirements (SEARs) for the project on 6 August 2018. The SEARs identifies the following specific assessment requirements for accessibility with respect to SSDA 9477:

SEARS (SSD 9477)	
Requirements	Pertinent sections of report for reference
9. Social Impact <ul style="list-style-type: none"> • Provide details on accessibility and inclusiveness of the proposal for people of differing needs and capabilities 	This report outlines the accessibility proposal for the school as it relates to the built environment, with reference to the following elements: <ul style="list-style-type: none"> • Carparking • External Paths of Travel • External Walkways • Building Entrances and Internal Doorways • Internal Paths of Travel • Internal Finishes • Lift • Sanitary Facilities • Hearing Augmentation • Signage

2. Brief and Scope

This report documents a preliminary review of the proposed project documentation with consideration to all aspects of accessibility to the site and throughout the development and with reference to the Building Code of Australia (BCA), Disability (Access to Premises – Buildings) Standards 2010 (Premises Standards), relevant Australian Standards as they relate to access to premises and the spirit and intent of the Disability Discrimination Act 1992 (*Cth*) (DDA).

Where compliance with the BCA deemed-to-satisfy provisions is considered inappropriate or impractical, du Chateau Chun may liaise with the relevant Building Surveyor to determine an alternative solution which can be justified under the performance requirements of the BCA. It should be noted that expert judgment from an accredited Access Consultant will not alleviate the Client's obligations under the DDA.

Matters that fall outside the scope of this report include structure or installation methods and assessment against Occupational Health and Safety legislation.

In this assessment, du Chateau Chun will refer, not only to the Disability (Access to Premises - Buildings) Amendment Standards 2010 (No. 1), but to additional Accessibility Standards in draft and current Australian Standards, to meet the spirit and intent of the DDA and to ensure best practice principles are applied for this project.

2.1 Documentation

Design documents reviewed as part of this report include the following:

- a) Preliminary design architectural drawings prepared by Perumal Pedavoli (Project No. NHQC2); and
- b) Preliminary design civil drawings prepared by Northrop (Project No. NHQC2).
- c) Preliminary design landscape drawings prepared by Taylor Brammer (Project No. 19-018W)

2.2 Project Description

- 2.2.1 The development is a new three storey school located at O'Keefe Drive, Oran Park NSW.
- 2.2.2 The proposed development consists of five blocks (A to E) connected with covered walkways, incorporating learning and teaching facilities, a library, hall and associated school amenities. The proposed development also includes construction of an external carpark as well associated civil and landscape works.

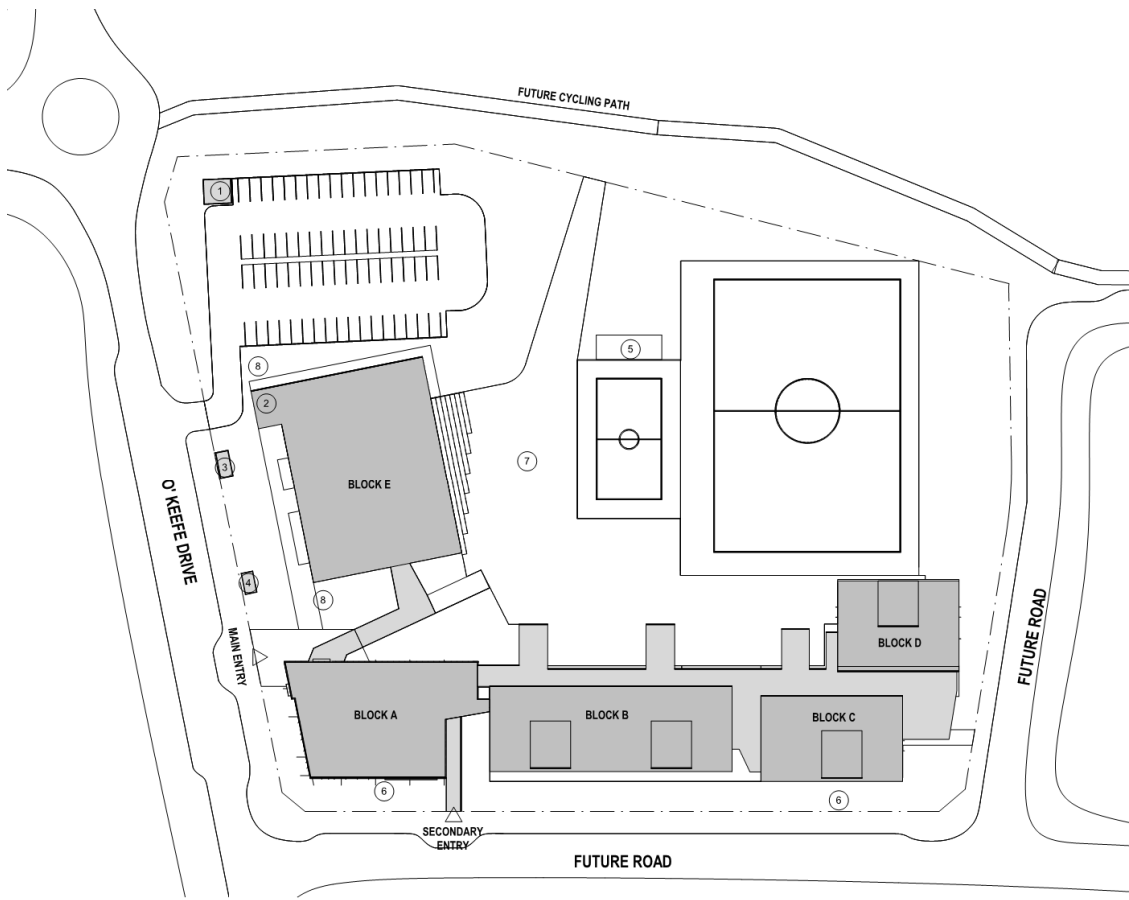


Figure 1 | Site Plan

2.3 Use and Class of Building

Pursuant to the BCA, the primary classification* for the proposed buildings pursuant to the BCA is a Class 5 and 9b.

Level	Proposed Use	Building Classification
Level 00	Office, Assembly Building	5, 9b
Level 01	Office, Assembly Building	5, 9b
Level 02	Office, Assembly Building	5, 9b

*to be confirmed by the Building Certifier

3. General building access requirements

Access for people with disabilities is required through the principal pedestrian entrance of all buildings and throughout the buildings in accordance with Table D3.1. The following table outlines the general building access requirements for this project:

Class of building	Access requirements
Class 5	To and within all areas normally used by the occupants
Class 9b	
Schools	To and within all areas normally used by the occupants

3.1 D3.4 Exemptions

Further discussions will be required to define the use and function of identified, specialist areas and determine the suitability for full, partial or managed accessibility. Where full access is unachievable due to the functions of the space, there may be opportunity to access the area under the permitted exemptions of the BCA D3.4 which states:

The following areas are not required to be accessible:

- a) An area where access would be inappropriate because of the particular purpose for which the area is used.
- b) An area that would pose a health or safety risk for people with a disability.
- c) Any path of travel providing access only to an area exempted by (a) or (b).

In the instance of the above, it would be necessary for the school to provide written confirmation regarding the function and occupancy of the areas to be exempted, including reference to the proposed management plan to be implemented in the event that access is required to the space in the future, to ensure accessibility is not compromised. These may include areas such as the following, which are subject to further discussion:

- a) Cleaners rooms
- b) Cleaners store rooms
- c) Plant rooms
- d) Electrical rooms
- e) Comms rooms

4. Design Review

Generally the preliminary design documentation of the proposed building has been developed in line with the spirit and intent of the DDA, Building Code of Australia 2019 (BCA), and Australian Standards as they relate to access for people with disabilities. Access for people with disabilities will be provided to the proposed school on an independent, functional and equal basis.

This professional opinion is subject to further design documentation in accordance with the following general recommendations to ensure appropriate access provision for people with disabilities is provided. At this stage, detailed design elements, such as levels, dimensions, door schedules, toilet fixtures and fittings, are limited and require further review to ensure compliance with the BCA and the spirit and intent of the DDA.

4.1 Carparking

- 4.1.1 There is a car park located at the north western corner of the site off O'Keefe Drive. 1 accessible carparking space will be provided for every 50 carparking spaces of part thereof.
- 4.1.2 The accessible car parking space for people with disabilities will be provided with appropriate dimensions of not less than 2400mm X 5400mm (dedicated space) with an adjacent space of 2400mm X 5400mm designated for loading and unloading (shared area).

4.2 External Paths of Travel

4.2.1 Accessible paths of travel will be provided from:

- a) The main points of pedestrian entry at the allotment boundary to the building entrances (O'Keefe Drive and future unnamed road to the south);
- b) Between accessible buildings which are connected by a pedestrian link; and
- c) The accessible car parking spaces to the building entrances.

4.2.2 Gradient and crossfall of external paths of travel will not exceed 1:40 (or 1:33 if bituminous seal).

Where the gradient exceeds 1:40, walkways with gradients up to 1:20 will be provided in accordance with Clause 10.2 of AS 1428.1(2009).

Where the gradient exceeds 1:20, ramps will be provided in accordance with Clause 10.3 of AS 1428.1(2009).

4.2.3 External paths of travel will be designed to achieve compliant widths, passing areas and turning spaces at dead ends:

- a) Generally, minimum 1m clear width is required clear of all obstructions.
- b) Minimum 2m head height clearance required throughout.
- c) 1500mm x 1500mm turning spaces are required where there is a 90 degree change in direction required.
- d) 1540mm(W) x 2070mm(L) turning spaces are required where there is a 180 degree change in direction required. This is also required within 2m of the end all accessible paths of travel.
- e) 1800mm(W) x 2000mm(L) passing space required at intervals not more than 20m where there is no direct line of sight.

4.2.4 Accessible paths of travel will have a slip-resistant surface and be traversable by people with a broad range of abilities (AS 1428.1(2009) Clause 7.1). Appropriate surfaces include:

- a) Concrete with abrasive finish;
- b) Concrete with exposed aggregate finish
- c) Bituminous concrete;
- d) Natural stone with rough finish;
- e) Paving bricks with abrasive finish.

4.2.5 A smooth transition will be provided between abutting surfaces. A construction tolerance of 3mm for vertical differences is permitted, or 5mm where edges are rounded or beveled.

4.2.6 Where a pedestrian area and vehicular zone is at grade, differentiation of vehicle and pedestrian zones will be provided by means of warning tactile ground surface indicators (TGSIs) and bollards, or combination. TGSIs to be setback 300mm from the bollards.

4.2.7 Any kerb ramps will be constructed in accordance with Clause 10.7 of AS 1428.1(2009), including:

- a) A maximum rise of 190mm;
- b) A length not greater than 1520mm;
- c) A gradient not steeper than 1 in 8, located within or attached to a kerb.

4.3 External Walkways

4.3.1 There are a number of walkways located throughout the site due to the natural topography of the site. Grades are generally no steeper than 1:20. If any steeper they will be constituted as ramps and therefore compliance with AS1428.1:2009 Clause 10.3 will be met.

4.3.2 Level landings to the walkways will be provided as follows:

- a) At intervals along walkways at:
 - i. Maximum 15m for 1:20 gradient;
 - ii. Maximum 25m for 1:33 gradient; and
 - iii. For walkways in between 1:20 and 1:33, the maximum interval is determined by linear interpolation.
 - iv. Ensure walkways are not within required doorway level landings – see Marked Plans in Appendix A.
- b) Spatially:
 - i. Where there is no change in direction, the landing must be minimum 1200mm in depth;
 - ii. Where there is a 90° turn involved, the landing must achieve minimum 1500mm x 1500mm clear space and the internal corner of this space may be splayed 500mm;
 - iii. Where there is a 180° turn involved, the landing must achieve minimum 1540mm x 2070mm (W x L) clear space.

4.3.3 The sides of a walkway shall be provided with a firm and level surface of a different material to that of the walkway extending 600mm in width horizontally, be of the same grade as the walkway and follow the grade of the walkway.

Alternatively, it shall be provided with a suitable barrier – kerbrail and handrail, or minimum 450mm high wall.

4.4 Building Entrances & Internal Doors

4.4.1 The majority of building entrances will be accessible. Where an entrance is not accessible, it will not be located more than 50m from a building which is accessible.

4.4.2 Door circulation space will generally be provided in accordance with Clause 13.3 of AS 1428.1(2009).

There will be a number of sliding doors which will not be provided with the required latch side clearances. This will be addressed as a performance solution whereby D-type pull handles will be provided on both sides of the door, setback from the latch side of the door for at least 530mm, to ensure that latch side clearance is provided to the door handles. In its fully open position, the doorways will achieve a minimum clear opening width of 850mm.

4.4.3 Doors will achieve clear opening widths of not less than 850mm to the operable leaf (minimum 920mm door leaf width). Where double doors are proposed, the 850mm minimum clear opening width will apply to the active leaf.

4.4.4 Door controls will comply with the following:

- a) The design of door handles and related hardware will allow the door to be unlocked and opened with one hand. Door lever handles will be provided which prevent the hand of a person with grasping difficulties from slipping from the door handle. Door handles and related hardware to be located between 900mm and 1100mm.

- b) All door snibs and locks to accessible facilities are of a lever design with a length of no less than 45mm (measured from the centre of the spindle) (AS 1428.1(2009) Clause 13.5.2 (d)).
- c) Manual door operating forces will be provided of no greater than 20N to initially open the door, 20N to hold the door open and to swing/slide the door no greater than 20N. Where environmental factors limit this, an automatic door operator will be provided.

4.4.5 Any security/access controls (including controls to internal automated doors and intercom systems) will be located as per the following (AS 1428.1:2009 Clause 13.5.3):

- a) At a height between 900-1100mm AFFL.
- b) Above a level landing (not steeper than 1:40).
- c) Not closer than 500mm to any internal corner.

4.4.6 Any change in levels at external doors will be addressed via threshold ramp complying with AS 1428.1(2009), which permits the following:

- a) Change in level of up to 35mm;
- b) Maximum gradient of 1:8;
- c) Maximum length of 280mm.

Where the change in level exceeds 35mm, a step ramp is to be installed with a minimum 1450mm setback from the door. Step ramp require the following:

- a) Change in level of up to 190mm;
- b) Maximum gradient of 1:10;
- c) Maximum length of 1900mm;
- d) 1200mm landing required at the base of the step ramp, and 1450mm landing required at the door;
- e) Sides of step ramp to be splayed, or provided with either a kerb or open balustrade. No TGSIs or handrails are required to a step ramp.

4.4.7 Doors or door frames will achieve a minimum luminance contrast of 30% to their adjacent surfaces for a minimum width of 50mm.

4.5 Internal Paths of Travel

4.5.1 Internal paths of travel required to be accessible are to achieve compliant widths, passing areas and turning spaces at dead ends:

- a) Generally, minimum 1m clear width is required clear of all obstructions.
- b) Minimum 2m head height clearance required throughout.
- c) 1500mm x 1500mm turning spaces are required where there is a 90 degree change in direction required.
- d) 1540mm(W) x 2070mm(L) turning spaces are required where there is a 180 degree change in direction required. This is also required within 2m of the end all accessible paths of travel.
- e) 1800mm(W) x 2000mm(L) passing space required at intervals not more than 20m where there is no direct line of sight.

The currently internal layouts generally show compliance. This will be further reviewed as the design progresses.

4.6 Internal Finishes

4.6.1 The following requirements will apply to internal finishes:

- a) Where carpet or any soft flexible materials are used as flooring material, the pile height or pile thickness is to be no greater than 11mm and the carpet backing to be not more than 4mm thick.
- b) Matting recessed within a continuous accessible path of travel to have a surface level difference to surrounding materials not more than 3mm for vertical and 5mm for rounded or bevelled edges.
- c) Grates (including floor waste cover to accessible toilet) are to have openings no greater than 13mm in diameter and any slotted openings to be no more than 13mm wide and orientated perpendicular to the dominant direction of travel.
- d) Doors, specifically the door leaf, door frame and/or door jamb must possess appropriate luminance contrast of not less than 30% with the adjacent wall surface, for a minimum width of 50mm.

4.6.2 Contrasting nosings to stairways will be selected to achieve a minimum 30% luminance contrast with the background for a depth of 50-75mm. Slip resistance rating will also comply with the requirements of 4.5.4 below.

4.6.3 TGSIs will be selected to achieve the appropriate luminance contrast with the substrate, which is 30% for integrated (i.e. tile type) TGSIs, 45% for discrete indicators (i.e. individual stud type), and 60% for composite discrete indicators (i.e. individual stud type with two tones).

4.6.4 When flooring materials are selected they will meet slip resistance ratings as per BCA Table D2.14 and AS 1428.1 (2009), including:

Application	Dry	Wet
Ramp steeper than 1:14	P4 or R11	P5 or R12
Ramp steeper than 1:20 but not steeper than 1:20	P3 or R10	P4 or R11
Tread or landing surface	P3 or R10	P4 or R11
Nosing or landing edge strip	P3	P4

4.6.5 A solid and non-transparent contrasting strip is required to be installed across the width of all frameless or fully glazed doors, sidelights and any glazing that are capable of being mistaken for a doorway or opening.

4.6.6 All switches/controls on accessways will be at 900mm – 1100mm AFFL and minimum 500mm from internal corners, except where on the architrave on the latch-side.

Additionally, light switches within accessible sanitary facilities are to be rocker-action or toggle switch type, with a minimum 30mm x 30mm dimension. Push pad switches are to have minimum 25mm diameter.

4.7 Lifts

4.7.1 There is one proposed passenger lift located centrally within the site, which provides access to all storeys of the building. The passenger lift will comply with BCA E3.6 and incorporate enhanced features per AS 1735.12(1999).

The following will be provided:

- a) Minimum lift floor dimension of At least one lift is to be a stretch compliant lift and have floor dimensions of minimum 1100mm(W) x 1400mm(L);

- b) Handrail complying with the provisions for a mandatory handrail in AS1735.12 (i.e. 30-50mm diameter, 600mm minimum width, 850-950mm AFFL).
- c) Minimum clear door opening width of 900mm;
- d) Passenger protection system complying with AS1735.12.
 - Lift landing doors at the upper landing.
 - Lift car and landing control buttons complying with AS1735.12.
 - Lighting in accordance with AS1735.12.
 - Emergency hands-free communication, including a button that alerts a call centre of a problem and a light to signal that the call has been received.
- e) Automatic audible information within the lift car to identify the level each time the car stops.
- f) Audible and visual indication at each lift landing to indicate the arrival of the lift car.
- g) Audible information and audible indication must be provided in a range between 20-80dB(A) at a maximum frequency of 1500Hz.

3.8.1 A low-rise platform lift is also proposed to the stage of the communal hall. The low-rise lift will be a through car design with minimum internal dimensions of 1100mm X 1400mm which enable independent access by wheelchair users.

4.8 Stairs

4.8.1 All stairs are generally designed to comply with Clause 11 of AS 1428.1(2009), including the following:

- a) Minimum 1m unobstructed width between handrails.
- b) Handrails on both sides of the stair constructed in accordance with Clause 11.2 and Clause 12 of AS 1428.1(2009). At the top of the stairway, the handrails must extend minimum 300mm horizontally. At the base of the stairway, the handrails must extend one tread width parallel to the line of the nosings, plus 300mm horizontally.
- c) Handrails must not protrude over the property boundary or in a transverse path of travel.
- d) No open risers are permitted.
- e) No overhanging treads are permitted.
- f) TGSIs are required to the top and bottom of the stairway.
- g) Visual nosings to stair treads.
- h) Slip resistance ratings.

A performance solution will be required for the provision of a single central handrail to stair serving tiered seating in the library (with 1m clear width both sides). Or if handrail is provided to side wall only, it is highly recommended that a second handrail be provided on the seating side with breaks in the handrail to allow access to the seats. This performance solution will be further developed as the design progresses.

4.9 Ramps

3.7.1 There appears to be a ramp proposed in the covered walkway / corridors. Ramp design will be reviewed as the design develops. A maximum gradient of 1:14 will be required with level landings of not less than 1500mm depth will be provided at the top and base of the ramp.

3.7.2 Handrails and kerb / kerbrails will be installed to both sides of the ramp with appropriate and consistent heights, diameter, detail and profile, in accordance with AS 1428.1 (2009). Warning tactile ground surface indicators will be installed at the commencement and conclusion of the ramp to meet the requirements of AS 1428.4.1(2009).

4.10 Accessible Sanitary Facilities

- 4.10.1 A unisex accessible sanitary facility will be provided at not less than 50% of the banks of toilets, as per BCA Table F2.4(a).
- 4.10.2 An even number of right- and left-handed facilities in the development.
- 4.10.3 All accessible facilities will be designed and constructed with appropriate selection and placement of fixtures and fittings which enable access by all users and meet the compliance requirements of AS 1428.1 (2009), including but not limited to the following:
- a) Grabrails in accordance with Figure 42 of AS 1428.1(2009);
 - b) Toilet paper dispenser in accordance with Figure 41 of AS 1428.1(2009);
 - c) Flushing control in accordance with Figure 40 of AS 1428.1(2009);
 - d) Back rest in accordance with 15.2.4 of AS 1428.1(2009);
 - e) Washbasin to be provided with appropriate knee / toe clearance and be located so that the top of the washbasin is 800-830mm AFFL;
 - f) A mirror to be located above the washbasin, extending from a height of not more than 900mm, to a height of not less than 1850mm AFFL. Minimum width of mirror to be 350mm.
 - g) A shelf is to be provided adjacent to the washbasin within any circulation space at a height between 900-1000mm AFFL, with a width of 120-150mm, and a length of 300-400mm. Where it is located outside of all circulation spaces, it can be located at a height between 790-1000mm AFFL, with a minimum width of 120mm, and a minimum length of 400mm;
 - h) A coat hook is to be provided at a height between 1200-1350mm AFFL, and at least 500mm from an internal corner;
 - i) Operable component of soap dispenser, hand dryer etc. are to be located 900-1100mm above finished floor level and at least 500mm from an internal corner.
- 4.10.4 Accessible showers will be provided with the following (but not limited to):
- a) Floor waste to be located 580+25mm from side wall, and 550mm+25mm from rear wall
 - b) Ensure gradient within the shower recess is 1:60-1:80, and gradient within the remainder of the facility is 1:80-1:100.
 - c) Height of shower seat to be 470-480mm AFFL.
 - d) Two (2) coat hooks are to be provided adjacent the folding shower seat, located 400mm and 600mm away from the edge of the shower seat, and at a height between 1200-1350mm AFFL

4.11 Sanitary Facilities for People with Ambulant Disabilities

- 4.11.1 Each bank of gender sanitary facilities associated with an accessible sanitary facility will be provided with a cubicle for people with ambulant disability, as per BCA Clause F2.4(c).
- 4.11.2 Layout of each ambulant sanitary compartment will comply with AS1428.1:2009 Clause 16, including:
- a) Cubicle width of 900mm – 920mm;
 - b) Clear space of 900mm x 900mm in front of the WC pan;
 - c) Clear space of 900mm x 900mm to both sides doorways on path of travel to the ambulant cubicle;
 - d) Toilet pan of 460mm – 480mm seat height with standard projection of 610mm – 660mm from the rear wall;
 - e) Toilet roll holder to be located with its outlet within 300mm from the front of the WC pan seat, between the top of the seat and maximum 700mm AFFL;
 - f) 'L'-shaped grabrail to both sides of the WC pan;
 - g) Coat hook to be located between 1350-1500mm AFFL; and
 - h) Braille and tactile signage to the cubicle door.

- i) Limited detail has been provided regarding the ambulant sanitary facility fixtures and fittings at this stage of the project.

4.12 Hearing Augmentation

- 4.12.1 A hearing augmentation system must be provided where an inbuilt amplification system, other than one used for emergency warning system only, is provided.

Locations and details of the system will be reviewed as the design develops.

A performance solution may be developed to permit omission of hearing augmentation to areas of the school covered by the public address system only. It is noted however that a hearing augmentation listening system is still required to areas with inbuilt speakers used for learning and teaching purposes.

4.13 Wheelchair Seating Spaces

- 4.13.1 Where fixed seating is provided (such as in the library), wheelchair seating spaces complying with AS1428.1(2009) will be provided in accordance with the table below.

Number of fixed seats in a room or space	Number of wheelchairs	seating spaces	Grouping and location
Up to 150	3	spaces	1 single space; and 1 group of 2 spaces

4.14 Signage

- 3.13.1 When development of the designs progress, du Chateau Chun shall review the proposed way-finding strategy and signage package to ensure predictability and consistency of information which facilitates safe, independent and dignified travel by all.
- 3.13.2 Tactile and Braille signage will be provided to meet the compliance requirements of the BCA and provisions outlined in AS 1428.1 (2009) and AS 1428.2 (1992) including additional signage where deemed appropriate.

5. Additional Accessibility Recommendations

As detailed above, it is acknowledged that the Premises Standards are limited in scope, covering aspects of building compliance applicable under the BCA only.

The Premises Standards could address a broader range of accessibility issues including considerations to accessibility of outdoor areas, such as playgrounds, and the interior fit-out of buildings, including customer service areas, joinery, fixtures and fittings. As such, there are features which fall beyond the scope of the Standards which may be subject to the general complaints provisions of the DDA.

du Chateau Chun provides the following as a summary of additional accessibility issues to be addressed in order to reduce Client risk of attracting a discrimination complaint.

It is recommended that a further review be undertaken to identify the gaps in the design between the DDA and Premises Standards, including opportunities for providing accessibility features which extend beyond the scope of Premises Standards.

Item	Recommendations
5.1	External Paths of Travel
5.1.1	Design all external pedestrian pathways to be accessible, including those which lead to points of interest, activity areas, and other meeting spaces in the outdoor space to ensure access and inclusion with all areas of the school site.
5.2	Carparking
5.2.1	Install vertical signage, incorporating the international symbol for access to indicate the extent of the accessible parking area for people with disabilities (AS 2890.6:2009 Appendix A3 (b); AS 1428.2:1992 Clause 17.4 (a) Note 2).
5.3	Internal Finishes
5.3.1	Consider providing 30% luminance contrast between wall and floor surfaces or introduction of 150mm high skirting with contrast to each.
5.4	Reception
5.4.1	Consider providing accessible features to the proposed reception areas. The level of access would be dependent on the level of interaction intended, such as high level interaction, or minimal and verbal and visual interaction only. Assuming a basic minimal level of interaction (verbal and visual only), consider the following: <ul style="list-style-type: none"> ▪ Lower section of counter at a height between 830-870mm AFFL, with a minimum width of 900mm; ▪ Underside clearance below the accessible section of counter; ▪ Surface of counter to have a matte or satin finish.
5.5	Seating
5.5.1	Where seating is provided, consider a proportion of accessible seating to be provided., incorporating the following features: <ol style="list-style-type: none"> i. Seat height between 400mm and 450mm, with side arms that extent a further 260+40mm in height and a back height of 750-790mm; ii. When located outdoors, the top surface of seats should be angled appropriately (maximum slope of 100 to 105 degrees) to enable adequate water run-off; iii. A minimum radius of 30mm should be provided to the front edge of the seat; iv. Heel space of at least 150mm with a minimum width of 350mm should be provided under seats to assist in rearward adjustment of feet when rising.

Item	Recommendations
5.6	Lighting
5.6.1	Consistent lighting levels should be provided throughout all areas (internal and external). Where lighting levels may be increased, this must occur gradually to enable sufficient time for a person's vision to adapt to changing lighting levels. Minimum interior lighting levels of maintenance illuminance in accordance with AS 1680.1 (1990) and with consideration to AS 1428.2:1992 Clause 19.
5.7	Egress for People with Disabilities
5.7.1	Develop and implement a facility evacuation plan, including the procedure for the evacuation of individuals with temporary and permanent impairments and high level mobility needs.

6. Performance Solutions

At this stage, the following performance solutions are proposed within the design:

Performance Clause	Deemed-to-Satisfy Clause	Performance Solution
DP1, DP2	D3.1	Omission of latch side clearance to sliding doors with the provision of D-pull handles setback at least 530mm from the latch side of the door.
DP1, DP2	D3.3	Provision of single central handrail to stair serving tiered seating in the library (with 1m clear width both sides).
DP9	D3.7	Omission of hearing augmentation to areas of the school covered by the public address system only (Note that hearing augmentation listening system is still required to areas with inbuilt speakers used for learning and teaching purposes.)

7. Conclusion

du Chateau Chun has endeavored to ensure all key aspects of access provisions have been addressed and all reasonable attempts have been made to identify the main matters pursuant to the DDA. It is our opinion that the development is capable of meeting the deemed-to-satisfy provisions of the BCA and the spirit and intent of the DDA. This professional opinion is subject to further assessment of detailed design documentation; to ensure the design principles are adhered to throughout subsequent stages of design and construction.