

Design Standards for Department of Education Facilities

Summary of changes

Reasons for updating documents

The *Design Standards for Department of Education Facilities* documents have been updated to reflect feedback from various sources both internal and external to the Department of Education. The content of the revised *Design Standards for Department of Education Facilities* document, replaces content in the previous published documents. The introduction of new and amended requirements embedded within the new version of the documents is part of a continuous improvement process for the *Design Standards*.

Summary of changes

The revised *Design Standards* documents includes changes that may affect the responsibilities of service providers carrying out work on departmental facilities.

The tables commencing on the next page provide a summary of changes to the *Design Standards* documents for each update.

October 2024 Updates – Version 5			
Previous Clause	Updated Clause	Topic	Summary of Updates
All	All	Structure	Three documents consolidated into a single document for ease of use and searching
All	All	Terminology	References to <i>schools</i> have been changed to <i>schools and early childhood centres, education facilities</i> or <i>site</i> as appropriate, or removed entirely where it does not impact the meaning of the statement
All	All	Terminology	References to <i>students</i> have been changed to <i>students and children</i>
All	All	Terminology	References to <i>teachers</i> have been changed to <i>staff</i>
All	All	Terminology	References to <i>classrooms</i> have been changed to <i>learning areas</i>
All	All	Terminology	References to <i>relocatable buildings</i> have been changed to <i>prefabricated buildings</i>
Part A			
Preface	Preface	Preface	Updated to capture the Equity and Excellence intent
Glossary	Glossary	Glossary	Terms that are not commonly used in the document have been removed
Acronyms	Acronyms	Acronyms	Updated to align with acronyms commonly used in the document
1.1	Introduction	Purpose	Updated to reflect the consolidation of the three documents
1.2	Introduction	Structure	Updated to reflect the consolidation of the three documents
1.3	Introduction	Reference documents	Inclusion of Equity and Excellence
New	1.3	Equity and Excellence	New clause added to outline the Equity and Excellence vision
New	1.4	Infrastructure for Learning	New clause added to outline the Infrastructure for Learning plan
3.0	Removed	Education Principles	Removed as these are outlined in the Equity and Excellence strategy
4.2	2.2	Education facilities Design Principles	Clauses 4.2.1-4.2.4 have been deleted to simplify the principles
5-7	Removed	Generic functional brief	Generic functional briefs have been deleted
Part B			
1.0	3.0	Introduction	Updated to reflect the consolidation of the three documents
1.3	3.2	Compliance	Legislative requirements added for early childhood
1.3	3.2	Compliance	Requirement added for kitchens to comply with the Food Act fit out guide as the default
N/A	4.0	Education facility types	Description of education facility types added.

2.0	5.0	Urban design	Clause simplified
3.1	6.1	Urban context analysis	Clause simplified
3.5	6.5	Integration of early childhood centres	Requirement added for primary school masterplans to consider provision for an early childhood centre to create an Early Years precinct
3.6	6.7	A sense of address	Requirement added for early childhood centres to have a dedicated point of entry which supports a separate identified street address.
3.7	6.8	Site circulation	Requirements added to: <ul style="list-style-type: none"> consider high level links to provide a continuous accessible path between multi-storey buildings. prioritise accessible paths and ramps over lifts to reduce ongoing costs and prevent issues caused by lift failure.
N/A	6.8.1	Emergency evacuation planning	Requirements added for the safe evacuation of building occupants with a mobility impairment in Special Schools
3.8.2	6.9.2	Floods and Storm surges	Strategies to mitigate the impact of floods have been updated to reflect contemporary practice
3.10	6.10	Summary of master planning considerations	Requirements added to: <ul style="list-style-type: none"> Consider integration of an early childhood centre, creating an early years precinct within the school. Situate buildings to enable isolation fencing of the administration building
4.1	7.1	Impact of the quality of learning spaces	Clause simplified
4.2	7.2	Value for money	Clause simplified to reinforce the need for simple, functional and flexible learning environments as a priority
4.3	7.3	General architectural considerations	Requirement added to consider the ongoing cleaning and maintenance requirements of the facilities and support these processes through considered design
Table 2	Table 3	Master plan	Security requirements incorporated
4.4	Deleted	Innovation	Clause deleted to reduce repetition
4.5	7.4	Building quality, material and lifecycle	Requirement added for materials and finishes to be easily maintained and serviced and suited to the local climate conditions.
4.6	7.5	Design and construction to support future change	Clause simplified
4.7.3	7.6.3	Aspects of the building as learning tools	Clause simplified
4.7.4	7.6.4	Energy efficient building performance	Requirement for airlocks deleted
4.8.3	Deleted	Connections and relationships between spaces	Clause deleted

New	7.7.3	Supervision	New clause added outlining the requirements for good visual connection between spaces and seclusion spaces being prohibited
4.8.6	7.7.6	Surface, colour, texture	<ul style="list-style-type: none"> Requirements simplified Requirement added to minimise space available as canvas for graffiti
4.10	7.9	Safety and security in design	Requirements added: <ul style="list-style-type: none"> to situate school administration facilities to support the installation of isolation fencing for fencing
4.11	7.10	Storage	Requirement added for storage solutions for sleeping mats or mobile beds in early childhood centres.
4.12	7.11	Signage	Early childhood signage requirements added
5.0	8.0	Landscape design	Requirements simplified
5.1	8.1	General Principles	Requirement added to ensure external environments are designed with the cultural context of the First Nations community as a primary consideration
5.3.3	8.3.3	Fencing	Requirements added for isolation fencing
5.3.5	8.3.5	Active Transport Parking	Clause simplified with a reference to section 6
6.0	9.0	Traffic and pedestrian movement	Section simplified with reference to the <i>Planning for Safe Transport Infrastructure at Schools technical guidance</i> to assist in the design and provision of effective and safe transport infrastructure solutions at education facilities.
6.1	9.1	Circulation and organisation	Requirement for isolation fencing
6.4.2	9.4.2	Vehicular traffic design considerations	Requirement added for deliveries to be received at reception for an early childhood centre.
6.4.3	9.4.3	Vehicle access	Requirement added for vehicle access to allow for easy access to play areas with sandpits, to facilitate ease of re-filling of sand.
6.6	9.6	Vehicle parking areas	Parking requirements have been replaced with a reference to the <i>Planning for Safe Transport Infrastructure at Schools technical guidance</i> which outlines the requirements
6.7	9.7	Bicycle parking	Details have been replaced with a reference to the technical note <i>TN207 Planning for Safe Transport Infrastructure at Schools - Bicycle Parking</i> .
New	9.8	End of Trip facilities	New clause added clarifying the requirements of the technical note
6.8	9.10	Visiting van services	Updates added to reflect advice provided by Qld health on dental van requirements
Part C			
1.0	Introduction	Introduction	Updated email address for feedback
1.0	10.0	Introduction	Clause simplified in line with the consolidated documents

1.1	Removed	Compliance with Acts	Deleted as it is covered in Part B
1.2	10.1	Design life expectancies	Requirement added for all material and equipment to be durable and have low maintenance life cycle characteristics in accordance with a recognised life cycle assessment (LCA) tool
1.3	10.2	Design criteria	Requirement added for educational buildings to be designed to resist wind and earthquake loads to an importance level of 3 as per the NCC
Table 1	Table 4	Design life expectancies	Requirement added for external glazing security film
1.5	Removed	Excise of land	Clause deleted
New	10.4	Health and Safety	New clause added detailing safety requirements
New	10.4.1	Machine safety	New clause added detailing requirements for machine safety
New	10.4.2	Projections, protrusions, pinch and entrapment hazards	New clause added detailing general requirements to prevent projections, protrusions, pinch and entrapment hazards that present a safety risk to users
New	10.4.3	Floor slip hazards	New clause added detailing requirements for slip resistant floor finishes and requirements to record the specifics of any applied finishes
New	10.4.4	Safety glass	New clause added detailing requirements for the provision of safety glass
2.0	11.0	Building fabric	Option deleted to select alternative makes and models if they are more cost effective
2.1	11.1	Roof	Requirements added for: <ul style="list-style-type: none"> • Coatings and material to be appropriate for corrosive atmospheric conditions and location (i.e. within 2km of coastline). • Roof designs to minimise penetrations through the roof (skylights, exhaust hoods, etc).
2.1.1	11.1.1	Guttering and downpipes	Option deleted for the department to approve the use of box and valley gutters
2.1.2.1	11.1.2.1	Roofing	<ul style="list-style-type: none"> • Deleted requirement for sandwich panels to be fire rated with an expanded polystyrene core (due to inability to achieve this). • Added a requirement to consider proximity to other structures.
2.1.2.2	11.1.2.2	Gutters and downpipes	Added DWV SN8 Painted pipe as an option for down pipes under 2100mm
2.2	11.2	External walls and cladding	Requirements added for walls and cladding to: <ul style="list-style-type: none"> • have appropriate long-term durability, aesthetic appeal and be pre-finished • be resistant to salt water spray in coastal areas located within 1km of the shore line or large expanses of salt water • be capable of withstanding high wind speeds in regions, where wind pressures could exceed 2Kpa

			<ul style="list-style-type: none"> • be readily available commercial proprietary systems • support sustainability • Provide appropriate corrosion resistance Deleted the requirement for the permeability and transparency of cladding to be controllable
2.2.1	11.2.1	Material selection	Requirements added to: <ul style="list-style-type: none"> • insulate with a layer of PVC or Polyethylene tape where two surfaces meet • minimise space available as "canvas" for graffiti through the use of dark colours • not use specified materials
New	11.2.2	Compressed fiber cement cladding	New clause added to detail the requirements for Compressed fiber cement cladding
2.4	11.4	Windows	Requirement added for a standard window configuration in external walls of habitable rooms to extend from sill height 1000mm above floor level, up to 2400mm high. Requirements added for window design to: <ul style="list-style-type: none"> • be able to be secured to prevent unauthorised access and be resistant to vandalism and attack • Minimise high level windows that require scaffolds, plant or roof anchor points to clean. • Include mechanical controls for high level louvers
2.4.2	11.4.2	Security	Requirements added relating to the location of openable windows in proximity to doors
2.4.3	11.4.3	Blinds	Requirement added for blind cords to be inaccessible to children in early childhood centres
2.5	11.5	Doors	Deleted requirements around large external glazing doors
2.5.1	11.5.1	External doors	Requirements added for: <ul style="list-style-type: none"> • Non-removable hinges • Laminated glass viewing panels • the hold open latch to be inaccessible to children in early childhood centres plus door hinge frame junctions to include protection against finger injuries.
2.5.2	11.5.2	Automatic entry doors	Requirements added for: <ul style="list-style-type: none"> • an internal lock down button • integration with the building access control system Automatic entry doors are not to be provided for regulated early childhood facilities
2.5.3	11.5.3	Internal doors	Requirements added for: <ul style="list-style-type: none"> • hinge frame junctions to include protection against finger injuries • administration security doors and secure stores
New	11.5.3.1	Pool gates	Requirements added for internal pool gates in early childhood centres
2.5.4	11.5.4	Operable walls	Requirement added for retractable bottom seals
2.5.5	11.5.5	Roller doors	Requirements added for: <ul style="list-style-type: none"> • Base of roller doors to be strengthened with boxed aluminum in high value areas • Reed switches

			<ul style="list-style-type: none"> Central locking mechanisms
2.5.7	11.5.7	Toilet partitions	Requirement added for maximum height of 1200mm in early childhood centres
New	11.5.8	Multipurpose Halls – divider curtain/net	Requirements added for a dividing curtain/net to halls with more than one court
2.6	11.6	Door and window hardware	Requirement added for door handles to be located at 1500mm AFFL wherever possible in an early childhood centre.
2.6.2	11.6.2	Doorstops	Requirements for doorstops clarified
2.7	11.7	Security locking	Requirement added for all storage cupboards and drawers to be keyed alike throughout an early childhood centre, excluding the manager's office
2.8	11.8	Ceilings	Requirements added for <ul style="list-style-type: none"> approval by DoE of sloping/raked or high-level ceilings above 2700mm administration secure store ceilings to be reinforced and fire rated to at least one hour Deleted minimum noise reduction coefficient of 0.6
2.8.1	11.8.1	Suspended ceilings	Requirements added for: <ul style="list-style-type: none"> 1200 x 600 x 19mm tiles RH99 sag resistance
2.9	11.9	Stairs and ramps	Requirements added for: <ul style="list-style-type: none"> Anti-slip tape or painted stair nosing's are not allowed TGSI specifications Deleted requirement for two handrails at different heights (noting NCC requirements remain for primary schools)
2.9.1	11.9.1	Fall prevention barriers	Requirements added for existing barriers to be modified to suit the current standard where funding is available
2.10	11.10	Sanitary ware	Requirement added for toilets and washing facilities to be directly accessible from each indoor room and outdoor play area in an early childhood centre
2.10.1	11.10.1	Toilets	Requirement added for toilet pans must be sized to suit the age of the users with seat height specifications for early childhood centres
2.10.2	11.10.2	Urinals	Requirements added <ul style="list-style-type: none"> for wall mounted urinals to be provided within a closed cubicle not to use urinals in an early childhood centres.
2.10.3	11.10.3	Hand wash basins	Requirements added for: <ul style="list-style-type: none"> under bench cabinetry in staff hand wash basins student hand wash basins mounted at appropriate height for the age of the intended users Heights specified for basins in early childhood centres
2.10.4	11.10.4	Hand wash troughs	Requirement added not to use hand wash troughs in early childhood centres.
2.10.5	11.10.5	Drinking troughs and fountains	Requirement added not to use drinking troughs in early childhood centres.

2.10.6	deleted	General purpose sinks	Clause deleted
2.10.9	11.10.8	Art sinks with inceptor traps	Requirement added to: <ul style="list-style-type: none"> • install at a height suitable for the age of the users. • be fitted in a way that allows them to be locked in place
2.10.12	11.10.11	Showers	Requirements added for showers in early childhood centres to: <ul style="list-style-type: none"> • allow privacy for users and supervision for staff. • have tapware and mixers located out of reach of children, preferably at 1500mm AFFL.
2.10.14	11.10.13	Tap fittings and fixtures	Deleted requirements for: <ul style="list-style-type: none"> • yellow coding of tempered warm water • all lever handle taps Added requirements for: <ul style="list-style-type: none"> • Anti-tamper taps required to drinking fountains accessible after hours. • Taps provided in early childhood centres to be suited to the age of the children, to promote independent use. • 2 hose cocks per building on the ground floor for cleaning
2.11.1	11.11.1	Accessibility and inclusion	Requirement added for at least one accessible workstation in areas where fixed workstations are provided
2.11.2	11.11.2	Special joinery fittings	Requirements added for early childhood centres: <ul style="list-style-type: none"> • joinery locks to be keyed alike throughout • where a nappy change table is provided, pull-out joinery stairs are required under.
2.14.1	11.14.1	Entry structures	Requirements added for street frontage and entry requirements for early childhood centres.
3.0	12.0	Building finishes	Requirements added to: <ul style="list-style-type: none"> • consider the use of dark colours to disrupt canvas available for graffiti • consider alternatives to steel in extreme locations
New	12.1	Concrete	New clause added detailing requirements for concrete
3.2	12.3	Structural steel finishes	Requirement added to consider additional protection for galvanizing in extreme locations by way of grit blasting
3.5	12.6	Walls and linings	<ul style="list-style-type: none"> • Requirement added for reinforced concrete masonry walls of 200mm nominal thickness, fire rated to one hour in high risk areas • Deleted requirement for tactile sensory stimulation built into walls in school supporting students with high needs
3.6	Removed	Wall tiling	Clause deleted
3.7.2	Removed	Floor tiling	Clause deleted
3.7.4	12.7.3	Concrete floor sealers/epoxy floor	Requirement added for surfaces to be sealed with a protective top coat
3.7.5	Removed	Timber flooring	Clause deleted
3.7.6	12.7.4	Sports, dance and drama flooring	Requirements updated to reflect a preference for cushioned polyurethane flooring over sprung timber unless a functional requirement is nominated for sprung timber
3.8	12.8	Painting and applied coatings	Requirements clarified for surfaces to be coated

			Requirement added to consider anti-graffiti paint finish in areas attractive to vandals
New	12.9	Engineered stone	New clause added noting the installation of engineered stone is banned
4.2	13.2	Water	Requirements added for water service connections
4.5	13.5	Natural gas	Requirement added to avoid new gas connections where the curriculum delivery requirements allow
New	13.8	Separate services connection	Requirements added for services operated exclusively by a third party to have a separate site connection to services infrastructure
6.1.1	15.1.1	Designing for storm events	Requirement added for swales with a depth x velocity ratio greater than 0.4m /s to be fenced
6.1.4	15.1.4	Floor levels	Requirements clarified for floor level in relation to flood levels
6.1.6	15.1.6	Stormwater pits	Requirement added for drainage slots to be a maximum of 5mm wide in early childhood centres.
6.2.2	15.2.2	Vehicle pavements	Requirement added for bollards in early childhood centres, where a car park adjoins an outdoor play area.
7.7	16.7	Cable reticulation	Requirement added for cabling through covered walkways to be avoided
7.8	16.8	Power Outlets	Requirement added for outlets in early childhood centres to be located 1500mm AFFL in children's accessible areas.
7.9.1	16.9.1	Power emergency stop (E-stop)	Additional requirements included for E-stops and appropriate signage
7.9.2	16.9.2	Permanently connected equipment	Additional requirements included for isolating switches
7.10	16.10	Lighting	Requirements added <ul style="list-style-type: none"> For external lighting to outdoor play areas in early childhood centres. Clarifying the Australian Standard requirements for lighting in workshops with machinery. Deleted: <ul style="list-style-type: none"> the option for departmental approval of the need for elevated work platforms when selecting luminaires. requirement for automatic sensor controlled lighting in accessible toilets
7.10.3	16.10.3	Lighting controls	Requirement added for: <ul style="list-style-type: none"> sensor lighting in low use spaces lighting controls in an early childhood centre to be mounted at 1500mm AFFL
7.11	16.11	Ceiling fans	Preference added for plastic fan blades to prevent the potential for rusting of blades.
7.12	16.12	PV systems	Requirement for external inverters to be caged using aluminum small diamond mesh
8.0	17.0	Fire systems	Requirements for fire systems updated

8.1	17.1	Water supply	Additional requirements included for water provision to fire systems
8.2	17.2	Booster cabinet, suction and booster connections	Additional requirements included for hydrant boosters and cabinets
8.3	17.3	Pipework, valves and fittings	Requirements updated for pipework, valves and fittings
8.4	17.4	Fire hydrants	Requirements updated for Fire hydrants
8.5	17.5	Fire hose reels	Additional requirements included for fire hose reels
8.6	17.6	Automatic fire sprinklers	Requirements updated for automatic fire sprinklers
8.7	17.7	Fire extinguishers	Requirements updated for fire extinguishers
8.9	17.9	Fire detection systems	Requirements clarified for fire detection systems
8.10	17.10	EWIS	Minor updates to EWIS requirements
8.11	17.11	Smoke and fire doors	Additional requirements included for smoke and fire doors
8.12	17.12	Fire detection control and indicating equipment	Additional requirements included for fire detection control indicating equipment
New	17.13	Fire hydrant system hardstands	New clause added outlining requirements for hardstands for fire brigade appliances
New	17.14	Fire hydrant system fencing	New clause added outlining requirements for fire hydrant system fencing
New	17.15	Fire pump house	New clause added outlining requirements for fire pump houses
9.0	18.1	Gas supply	Requirement added to avoid new gas connections where the curriculum delivery requirements allow
9.2	18.2	Natural gas	Requirements simplified for natural gas supply
9.4	Removed	Selection of gas appliances	Clause deleted
10.1	19.1	Domestic water services	Requirement added for suitable path boxes
Table 11	Table 17	Plumbing fixtures	Requirements updated for S19 to include option for shrouding of pipework
10.3.1	19.3.1	Wastewater treatment systems	Requirements added to: <ul style="list-style-type: none"> review the capacity of existing systems where new buildings are provided that rely on existing wastewater treatments systems review potential to eliminate the system all together.
11.1	Removed	Television, satellite and radio signal distribution	Clause deleted
11.3	20.2	Occupant Warning Systems	Requirements <ul style="list-style-type: none"> Simplified for occupant warning systems

			<ul style="list-style-type: none"> added for systems to extend to all facilities onsite, including any early childhood centres.
11.5	20.4	Physical security of information and communications technology	New clause added outlining requirements for the centre of network
12.0	21.0	Landscape architecture	Requirement added to consider the cultural context of the First Nations community in designing external environments
12.1	21.1	Soft landscaping	Requirement added to securely fix all pebbles and stones used as a surface treatment.
12.1.1	21.1.1	Turfed areas	Requirements added for <ul style="list-style-type: none"> a topsoil depth of 100mm after settlement Concrete mowing strips increased to 300mm wide
12.1.2	21.1.2	Sports playing fields	Requirement added for a topsoil depth of 200mm
12.1.3	21.1.3	Artificial grass and synthetic carpet	Requirements added for artificial grass to be: <ul style="list-style-type: none"> selected to reduce heat absorbance and transfer made from Australian manufactured yarn with a manufacturer's warranty of at least 10 years
12.1.4	21.1.4	Mass garden beds	Requirement added to limit mass garden beds in favour of turfed area for play and running space
12.1.7	21.1.7	Plant species	Requirements added for plant selection: <ul style="list-style-type: none"> avoid dangerous and poisonous plants with a link to the Qld Health register engage a specialist horticulturalist, cognizant with dangerous plants and the needs of the age group of children to review early childhood centre plant selections. Requirements deleted: <ul style="list-style-type: none"> List of identified species to be avoided requirement to avoid plants that attract stinging insects
12.2.2	21.2.2	Build shade	Requirements added: <ul style="list-style-type: none"> Preference for hard roofed shade structures. Criteria to limit the use of shade fabrics to specific circumstances and small spaces Note that the cost of shade fabrics may not be covered in the event of an insurance claim
12.2.2.1 & 12.3.1	Removed	Heat Island effect	Clauses deleted
12.3.2	21.3.1	Multipurpose courts/hard courts	Requirement added for protective pads to all posts
12.3.3	21.3.2	Fencing	Requirement added for security fencing to comply with the <i>Specification for Security Fencing in State Schools</i>
Table 13	Table 19	Fencing	Requirements added for: <ul style="list-style-type: none"> Isolation fencing to administration Early Childhood Centres – outdoor play areas Water tanks, fire tanks and pumps
12.4.1	21.4.1	Seating	Requirements added for: <ul style="list-style-type: none"> Informal seating opportunities in early childhood centres to encourage adults to sit and engage with children at their level,

			<ul style="list-style-type: none"> All external seating, path and ramp railings and outside stage areas to be fitted with anti-skating devices. <p>Requirement deleted for seat support frames to be embedded in a concrete footing</p>
12.4.2	21.4.2	Play	Requirement for the exclusion of swings updated to include only certain swing types, including plank swings, cradle swings, boat swings, chair swings and maypole swings
12.4.2.1	21.4.2.1	Soft fall	Requirements added for softfall preferences in early childhood centres
12.4.2.2	21.4.2.2	Sand pits	Requirement for minimum sand depth increased from 400mm to 500mm
12.4.2.3	21.4.2.3	Drainage	Additional requirements included for sand pit drainage
New	21.4.2.4	Dry creek beds	New clause added outlining specifications for dry creek beds
New	21.4.3	Flag poles	New clause added outlining specifications for flag poles in schools
New	21.5	Early Childhood - Outdoor environments	<p>New clause added outlining additional requirements specific to early childhood outdoor environments including:</p> <ul style="list-style-type: none"> Natural look prioritizing natural materials Size and shape of spaces Supervision requirements
New	21.5.1	Play Structures	New clause added outlining the selection of play elements preferred in and early childhood centre
New	21.5.1.1	Sand pits	New clause added outlining additional requirements specific to sand pits in early childhood centres
New	21.5.2	Shade	New clause added outlining additional requirements specific to shade in early childhood centres
13.1	22.1	Mechanical services – general requirements	Requirement added for the security enclosures for external equipment in an early childhood centre to ensure that equipment is inaccessible to small children
13.2.1	22.2.1	Demand based control	Requirement adjusted for low use spaces to be switched off by timer control
13.2.2	22.2.2	Energy reclaim	Requirements added for latent and humidity control
New	22.3.1	Types of active cooling and heating	New clause added noting preferred cooling and heating systems
New	22.3.2	Alternative air-conditioning system types	<p>New clause added noting instances where alternative systems may be used</p> <p>Under no circumstances shall chilled water systems be used</p>
13.3.2	22.4.2	Design day internal temperatures and humidity	<p>Requirements updated for:</p> <ul style="list-style-type: none"> reverse cycle air-conditioning to be used for heating design day temperatures Early childhood temperatures added (equivalent to general learning areas)
13.4	Removed	Heating	Clause deleted

13.5	22.5	Air conditioning – cooling and heating	Requirement added where VRF equipment is used, for a 2 pipe configuration system design
13.5.3	22.5.3	Cooling system controls	Requirements added for: <ul style="list-style-type: none"> • student related areas to be fitted with 0 to 8 hour (adjustable) timer control. • local control adjustment of thermostat and operational modes to be able to be restricted
13.6	22.6	Ventilation	Requirement added to consider the safety of occupants when providing natural ventilation
13.6.1	22.6.1	Natural ventilation	Requirement deleted for fixed louvers to stores
13.6.2	22.6.2	Mechanical ventilation	Requirements updated for variable speed controllers
13.6.3	22.6.3	Mechanical outside air	Requirements added for outside air flow rate to early childhood centres
13.6.5	22.6.5	Food preparation exhaust systems	Requirements updated for exhaust hoods and systems
13.6.6	22.6.6	Fume cupboards	Requirement added for potential review by a hazardous areas consultant
13.6.8	22.6.8	Spray Booths	Requirement added for potential review by a hazardous areas consultant
13.6.9	22.6.9	Localised fume extraction	Clarification added that this may relate to 3D printers
13.7	22.7	Dust extraction	Requirement added for a hazardous areas consultant and an acoustic consultant review
New	22.11	Compressed Air	New clause added with specifications for compressed air supply systems
15.0	24.0	Security technology	Requirements added for: <ul style="list-style-type: none"> • administration staff to be able to easily lock all areas of reception in an emergency • separate security systems where a facility is to be managed by a third-party provider under a lease arrangement
15.1	24.1	Intruder detection and alarm systems	<ul style="list-style-type: none"> • Requirement added for the locations of all equipment to be specified in the Engineering schedule • Minor additional updates
15.1.1	24.1.1	Keypads	Requirement added for keypads to be matching across a campus
15.1.2	24.1.2	Sirens	Requirement added for sirens to reach 80db in all internal areas
15.1.3	24.1.3	Intruder detection and duress devices	<ul style="list-style-type: none"> • Requirement deleted for duress buttons in assisted amenities. • Options added for electronic security systems equipment
Table 17	Table 23	Detection devices	Requirements added for early childhood detection devices
15.2	24.2	Electronic access control systems	Minor updates to requirements
15.3	24.3	CCTV	Requirements for CCTV systems updated

New	24.4	Security containers (safes)	Requirements added for a lockable steel key cabinet in every school
16.7	25.7	Gymnasiums	Requirement deleted for additional wall supports
17.0	26	Vertical Transport	Requirements added for <ul style="list-style-type: none"> • additional lift specifications • criteria for selection of lifts

March 2024 Updates

Version	Date	Summary of changes
4.1	11/03/2024	Part C: Technical specifications and standards Section 3: Building finishes 3.2 Structural Steel finishes – All exposed and external steel work to be hot dipped galvanized. 3.7.1 Carpets – Carpet tile table amended.
4.1	11/03/2024	Part C: Technical specifications and standards Section 16: Structural engineering 16.8 Covered Walkways – minimum width and height amendments.

January 2024 Updates

Version	Date	Summary of changes
4.0	02/01/2024	Version 4 documents supersede the following documents: <i>Part A: Educational facilities design principles and generic functional brief Version 1.8</i> <i>Part B: Master planning, architectural and landscaping design principles Version 9.0</i> <i>Part C: Technical specifications and standards Version 9.0</i>
4.0	01/01/2024	Part A: Educational facilities design principles and generic functional brief Document rebranding only and hyperlink updates
4.0	02/01/2024	Part B: Master planning, architectural and landscaping design principles Document rebranding only and hyperlink updates
4.0	02/01/2024	Part C: Technical specifications and standards Section 1: Introduction 1.0 Introduction – Minor updating to terminology and feedback email address included. 1.2 Design life expectancies – deleted ICT references (refer to DNIPS) 1.4.1 Sustainability principles – deleted references to thermal mass and night pumping. 1.4.2 Alternative ESD initiative – requirement for DoE approval added.
4.0	02/01/2024	Part C: Technical specifications and standards Section 2: Building fabric 2.1 Roof – Clarified wording related to roof pitch, clarified use of roof safety systems. 2.1.1 Guttering and Downpipes – Guttering overflow requirements amended. Reference to QLD Dev Code added for rainwater harvesting. 2.1.2 Material Selection – Clarification of use of sandwich panels. 2.1.22 Gutters and Downpipes – Re-instated requirement to protect downpipes and discharge into grates. Design requirements added. 2.3.1 Floor insulation – clause deleted. 2.4 Windows – Night purging info deleted. 2.4.2 Security – key locks to window deleted. 2.4.4 Insect screens – Amendment to only include insect screens where briefed. 2.4.5.1 Glazing – Deleted reference to double glazing and single glazing not permitted. 2.5.1 External doors – Deleted latching requirement and mat well requirement. 2.5.2 Automatically operated doors – deleted airlock requirement.

		<p>2.5.3 Internal doors – Deleted contrasting colour requirement. NCC applies.</p> <p>2.5.5 Roller Shutter doors – deleted width requirement.</p> <p>2.5.7 Toilet Partitions – new clause added.</p> <p>2.6 Door and window hardware – lever handles push/pull and safety decals reference deleted - NCC requirement.</p> <p>2.7.1 Electronic access control systems – clause deleted as referenced in section 15.</p> <p>2.8 Ceilings – Min height re-instated. Acoustic ceiling tile type reference added.</p> <p>2.9 Stairs and ramps – Step dimensions re-instated. Handrail terminations and TGS preference added for Blind/Visual persons.</p> <p>2.9.1 Balustrades and bleachers – Clause renamed to Fall Prevention Barriers. Added barrier references to align with NCC. Top rail sitting deterrent added. Deleted bleachers references.</p> <p>2.10 Sanitaryware – Hot water approval added.</p> <p>2.10.1 Toilets – Stainless steel option added.</p> <p>2.10.2 Urinals – Stainless steel option added.</p> <p>2.10.3 Hand wash basins – Stainless steel option added.</p> <p>2.10.5 Drinking troughs and fountains – wall mount option added. Bottle refill station added.</p> <p>2.10.11 Cleaners sink – option for floor mounting added.</p> <p>2.10.13 Floor waster gullies – Charging requirement added. Bucket trap requirement added to kitchens.</p> <p>2.10.14 Tap fittings and fixtures – anti vandal requirement to external taps added.</p> <p>2.11 Joinery – compact laminate min size added.</p> <p>2.12 Bird proofing – extent clarified.</p> <p>2.14 Timber – clause deleted.</p> <p>2.14 Way Finding and Signage – new clause added.</p>
4.0	02/01/2024	<p>Part C: Technical specifications and standards</p> <p>Section 3: Building finishes</p> <p>3.4 External timber finishes and decking – deletion of recycled timber.</p> <p>3.5 Walls and linings – requirement for 9 mm FC reinstated.</p> <p>3.6.1 Splashbacks – materials types amended.</p> <p>3.7.1 Carpets – carpet specification reinstated.</p> <p>3.7.2 Sheet Vinyl flooring – specification reinstated.</p> <p>3.7.4 Concrete floor sealers/epoxy floors – requirements for epoxy flooring added.</p> <p>3.7.8 Floor mats – clause deleted.</p>
4.0	02/01/2024	<p>Part C: Technical specifications and standards</p> <p>Section 4: Utilities and associated infrastructure</p> <p>4.6 Electricity – Maximum demand sizing amended.</p> <p>4.7 Telecommunications – conduit requirement clarified.</p>
4.0	02/01/2024	<p>Part C: Technical specifications and standards</p> <p>Section 5: Acoustic engineering</p> <p>Section 5 is subject to a further detailed review.</p> <p>References to Australian standard and AAC document added.</p> <p>5.1.1. Building services – reference to surface vibration removed, lift location restriction removed.</p> <p>5.2.1 Corridors – clause deleted</p> <p>5.3.1 Open plan teaching and learning spaces – clause deleted.</p>
4.0	02/01/2024	<p>Part C: Technical specifications and standards</p> <p>Section 6: Civil engineering</p> <p>6.1.1 Designing for storm events – overland flow paths requirement added.</p> <p>6.3 Concrete – clause deleted.</p>
4.0	02/01/2024	<p>Part C: Technical specifications and standards</p>

		<p>Section 7: Electrical services</p> <p>7.2 Design and infrastructure capacities – spare space in table 9 amended.</p> <p>7.4 Distribution switchboards – surge protection amended, RCD protection amended, labelling requirement added.</p> <p>7.6 Underground pits and conduits – pits in trafficable areas to be heavy duty</p> <p>7.8 Power outlets – mounting height amended to match DNIPS, snap off covers removed.</p> <p>7.9.1 Power Emergency stop – E-Stop specification included.</p> <p>7.9.2 Permanently connected equipment – flush/surface mounting requirement removed.</p> <p>7.9.3 Earthing systems – requirement for equipotential bonding added</p> <p>7.10 Lighting systems – Colour temperature 3000K deleted, daylight control devices deleted, occupancy sensors deleted.</p> <p>7.10.1 Design – Table 10 deleted – refer to AS1680 for lighting levels.</p> <p>7.10.2 Natural daylight – clause deleted.</p> <p>7.10.4 Lighting controls – Automatic lighting controls removed.</p> <p>7.10.5 Emergency lighting – self-contained type added, central monitoring removed.</p> <p>7.11 Ceiling fans – clause relocated from section 13. Minimum size added.</p>
4.0	02/01/2024	<p>Part C: Technical specifications and standards</p> <p>Section 8: Fire systems</p> <p>Section 8 is subject to a further detailed review.</p> <p>8.4 Fire hydrants – Requirement to only install as per NCC if fire station within 50 km.</p> <p>8.5 Fire hose reels – NCC exemption added, key locking clarified, security (reed switching) amended, labelling requirement amended.</p> <p>8.9 Fire detection systems – clause amended to refer to Security design requirements.</p> <p>8.10 Sound alert and intercom systems for emergency purposes – amended to align with NCC.</p>
4.0	02/01/2024	<p>Part C: Technical specifications and standards</p> <p>Section 9: Gas supply</p> <p>9.1 General – requirement to not install control panel within switchboards added. Connection to fire alarm system added.</p>
4.0	02/01/2024	<p>Part C: Technical specifications and standards</p> <p>Section 10: Hydraulic services</p> <p>10.1.5 - Taps, outlets and fixtures – waterflow velocity amended, Table 15 Plumbing fixtures re-instated from previous design standards as these fixtures are referenced in DoE room data sheets.</p> <p>10.2 Heated water – requirement for flushing procedure added.</p> <p>10.3 Sanitary plumbing and drainage – Dual pump requirement removed.</p> <p>10.3.1 Wastewater treatment systems – capacity requirements amended.</p> <p>10.3.2 Sanitary plumbing and drainage systems – requirement for exposed drainage pipework reinstated.</p> <p>10.3.3 Pipework and fittings – deleted air admittance vents.</p> <p>10.4 Trade waste plumbing and drainage – authority requirement added.</p> <p>10.4.1 Trade waste apparatus – flushing points and separator location added.</p>
4.0	02/01/2024	<p>Part C: Technical specifications and standards</p> <p>Section 11: Information and communication technology</p> <p>11.1 Terminology – Clause removed – refer to DNIPS.</p> <p>11.2 Structured cabling systems – Clause removed – refer to DNIPS.</p> <p>11.3 Pits and conduit systems – Clause removed – refer to DNIPS.</p> <p>11.4 Network centre – Clause removed – refer to DNIPS.</p> <p>11.5 Edge building cabinets – Clause removed – refer to DNIPS.</p> <p>11.6 Patch panels and leads – Clause removed – refer to DNIPS.</p> <p>11.7 Data outlets – Clause removed – refer to DNIPS.</p> <p>11.8 Wireless access points – Clause removed – refer to DNIPS.</p>

		11.9 Telephone systems – Clause removed – refer to DNIPS. 11.13 Hearing augmentation – integration with PA system removed.
4.0	02/01/2024	Part C: Technical specifications and standards Section 12: Landscape architecture 12.1.1 Turfed areas – Mowing strip and edging requirement added. 12.1.7 Plant selection – Restricted invasive plant list added. 12.3.3 Fencing – Hard court fencing requirement amended. Mowing strip requirement added. 12.4.4.4. Sandpits – hose cock requirement removed.
4.0	02/01/2024	Part C: Technical specifications and standards Section 13: Mechanical services Section 13 is subject to a further detailed review. Intro – reference to Plant selection framework removed. 13.4 Heating – Gas heating removed. 13.4.1 Passive heating of spaces – clause removed. 13.5.1.1 Evaporative cooling – clause removed. 13.6 Ceiling fans – clause moved to electrical services section.
4.0	02/01/2024	Part C: Technical specifications and standards Section 15: Security technology Note: The entirety of Section 15 has been amended and rewritten by DoE School Security. All clauses have been amended.
4.0	02/01/2024	Part C: Technical specifications and standards Section 16: Structural engineering 16.8 Covered walkways – min. width requirement reinstated, max. height reinstated, min. height reinstated, prevention of swinging requirement reinstated, skateboard deterrent added.
4.0	02/01/2024	Part C: Technical specifications and standards Section 17: Vertical transportation Lift communication to PSG added. Pixel gateway cabling added, lift car minimum dimensions added, overland flow requirement added, vandal resistant requirement added, power loss requirement added, registration requirement added.