










LIVERPOOL HEALTH & ACADEMIC PRECINCT
Elizabeth Street, Liverpool NSW


SCHEDULES - MSCP
FIXTURES & FINISHES SCHEDULE
LHAP-AR-FPA-SCH-CP-920001






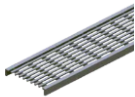
DATE	01/12/2020
STATUS	FOR CONSTRUCTION
REVISION	03


KEY		NOTES							
AMENDMENTS		1. All fixtures, finishes and colours are subject to approval by the principal and Fitzpatrick + Partners prior to manufacture of building components or site applications.							
TO BE CONFIRMED		2. This schedule shall be read in conjunction with architectural drawings and specifications. Refer any discrepancies to Fitzpatrick + Partners for determination prior to proceeding with the ordering of materials or proceeding with the affected works on site. The more ownerous or higher standard of the two assumed allowed for.							
DELETED ITEMS		3. All products are to be installed in accordance with applicable manufacturer requirements and recommendations. This includes (but is not limited to) sub-structure and fixing details, sealants and protective coatings, proper application and finishes, etc.							
		4. All products are to be installed in accordance with applicable Australian Standards and the Building Code of Australia.							
		5. Any alternative products suggested by contractor to be approved by the client and architect prior to procurement							
		6. Refer also all consultant documents and specifications (Fire, Acoustic, Section J, Structural etc)							
		7. All substrates, sealants, adhesives, finishes & paints to have low VOC content to meet Greenstar req. Ref ESD Specification.							
		8. Provide certificates for all external cladding to comply with AS1530.1-1994 Non-Combustibility & AS5113-2016 for external facades prior to ordering.							
		9. Before commencing painting work the Contractor shall inspect all surfaces. Reject surfaces that may result in glancing lightand visible imperfections in the substrate							
		10. All pressed metal frames & timber doors & MDF doors - prepare surfaces, and apply coatings. No. of coatings, and thicknesses strictly in accordance with the manufacturer's current printed recommendations, and to the minimum standards required by APAS							
		11. Where there is a transition in floor finishes (Eg. Vinyl to Carpet, Resin Finish to Concrete) Provide a 1.5mm nom. Thick Linished Stainless Steel Insert.							
		12. Where floor vinyl selections occur on plan, alignments of seams are to align with the nearest architectural junction, ie. Column corner, wall partition corner etc. Unless noted otherwise. Contractor to provide shop drawings indicating set outs, joint lines and direction prior to ordering and commencing work on site.							
CODE	DESCRIPTION & LOCATION	DRAWING REF	SPEC / DESCRIPTION / FINISH (ALL DIMENSIONS IN MM)	SUPPLIER / MANUFACTURER	NOTES	IMAGE	COMPLIANCE / RATING / CERTIFICATES <small>(BUT NOT LIMITED TO STANDARDS REFERENCED BELOW, REFER FULL SPECIFICATION)</small>	ISSUE	SCOPE
AH01	Access Hatch Ceiling mounted - Office Level 7 lift lobby	LHAP-AR-FPA-DRG-CP- 140000 series LHAP-AR-FPA-DRG-CP- 330000 series	450mm Square ceiling mounted access panel with concealed hinges and frame with feathered or set edges, paint or finish to match surrounding ceiling Product: Trademark Metal set bead access panel	Gyprock or equal	With square access lock			03	
AH02	Access Hatch Level 7 lift lobby	LHAP-AR-FPA-DRG-CP- 140000 series	600mm Square ceiling mounted access panel with concealed hinges and frame with feathered or set edges, paint to match surrounding ceiling Product: Trademark Metal set bead access panel	Gyprock or equal	With square access lock			03	
BH01	Balustrade Type Fire Stair internal balustrade & handrail	LHAP-AR-FPA-DRG-CP- 320000 series	Continous Hot dip Galvanised steel tube '3 rail' balustrade fixed to side of concrete stair stringer Size: 42mm diameter		Top of rail to maintain consistent height stair and landings, and rail spacings to comply with D2.16a		Corners to be rounded to ≥5mm to meet AS1428.1 & .2 Rail setout to comply with NCC D2.16 / D2.17	01	
BF01	Ambulant WC Grab Rails Wet Areas	LHAP-AR-FPA-DRG-CP- 330000 series	JD MacDonald Grab Rails for Ambulant WC; Ambulant L Shape Pair Code: JDM-GAL Finish: Stainless Steel	JD MacDonald or equal	Ensure that Grabrail is suitably fixed & supported back into studwork or heavyduty marineply fixed between stud to allow mounting of grab rail.		Installation to comply with AS 1428.1-2009	02	
BF02	Accessible WC Grab Rails Wet Areas	LHAP-AR-FPA-DRG-CP- 330000 series	JD MacDonald Grab Rails for Accessible WC Type: 2 Piece ACC Toilet grab rail, 'L' shaped; 965mm long x 600mm high, and 300mm straight rail. Code: JDM-GTP-9 Finish: Stainless Steel	JD MacDonald or equal	Ensure that Grabrail is suitably fixed & supported back into studwork or heavyduty marineply fixed between stud to allow mounting of grab rail.		Installation to comply with AS 1428.1-2009	01	
BF03	Accessible WC Paper Towel Dispenser / Bin Wet Areas	LHAP-AR-FPA-DRG-CP- 330000 series	JD MacDonald traditional 0462 Combo unit, towel dispenser and waste bin, 7.6L bin capacity. Code: 10-0462-AD-9 360(w) x 710(h) x 102(d) Finishing: Stainless steel, brushed	JD MacDonald or equal			Installation to comply with AS 1428.1-2009	01	
BF04	Soap Dispenser Wet Areas	LHAP-AR-FPA-DRG-CP- 330000 series	Bobrick-Liquid Soap Dispenser - 1.2L; B2111--C Finish: Chrome	Bobrick or equal			Installation to comply with AS 1428.1-2009	01	
BF05	Flush Buttons Wet Areas	LHAP-AR-FPA-DRG-CP- 330000 series	Caroma Invisi Series II Round Dual Flush Plate & Buttons (Metal) Code: 237088S 210(w) x 110(h) x 5(d) Finishing: Stainless steel, satin	Caroma or equal			Installation to comply with AS 1428.1-2009	01	
BF06	Accessible WC Robe Hook Wet Areas	LHAP-AR-FPA-DRG-CP- 330000 series	Bobrick Heavy Duty Clothes Hook with concealed mounting (Accessible WC) Code: B-2116 Finish: Satin Nickel plated to match Stainless Steel 85mm(h) x 70(w)	Bobrick or equal			Installation to comply with AS 1428.1-2009	01	
BF07	Accessible WC Toilet Paper Holder Wet Areas	LHAP-AR-FPA-DRG-CP- 330000 series	JD MacDonald Single Toilet Roll Holder (Accessible WC) Code: 10-7305-S Finish: Chrome, Satin 210(w) x 100(d)	JD MacDonald or equal			Installation to comply with AS 1428.1-2009	01	

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BF08	Sanitary Bin Wet Areas	LHAP-AR-FPA-DRG-CP-330000 series	Sanitary Bin - automatic (battery operated) 170 x 310 x 660(h), Colour: Dark grey	Sanokil or equal				01	
BF09	Accessible WC Shelf Wet Areas	LHAP-AR-FPA-DRG-CP-330000 series	Wall mounted stainless steel bathroom shelf (Accessible WC); 756A-12	Bradley or equal			Installation to comply with AS 1428.1-2009	01	
BK01	Block Type 1 Split Face Walls to car ramps, Office, WCs		Block Split Face, Stagger bond 390x195x190, Colour: TBC , Mortar colour to match stagger bond Expansion Joint Colour TBC Finish: PA06	Boral or equal	Allow for end block to be a bolstered onsite from a half solid block in accordance with manufacturer req's Load bearing, core filling, reinforced & external blockwork refer structural eng's req's Refer to BCA for fire resistance requirements		Durability to AS4456.10	03	
BK02	Block Type 2 190mm		Honed Face Block 390x190x190, Stagger bond Colour: natural concrete grey & Mortar colour to match Finish: PA06	Boral or equal	Load bearing, core filling, reinforced & external blockwork refer structural eng's req's Refer to BCA for fire resistance requirements		To AS3700-2001 & Durability to AS4456.10.	03	
BK03	Block Type 3 140mm		Honed Face Block 390x190x140 Stagger bond Colour: natural concrete grey & Mortar colour to match Finish: PA06	Boral or equal	Load bearing, core filling, reinforced & external blockwork refer structural eng's req's Refer to BCA for fire resistance requirements		To AS3700-2001 & Durability to AS4456.10.	03	
BK04	Block Type 4 90mm		Honed Face Block 390x190x90, Stagger bond Colour: natural concrete grey & Mortar colour to match Finish: PA06	Boral or equal	Load bearing, core filling, reinforced & external blockwork refer structural eng's req's		To AS3700-2001 & Durability to AS4456.10.	03	
BM01	Breather Membrane Office & Behind cladding		Non-combustible breather membrane behind cladding. Code: TBA Firefly Breatheable sarking Finish: Mineral glass & laminated aluminium foil	TBA Fire Fly	Refer manufacture installation req's and coordinate with capping and flashings for water tightness. Tape and seal joints. Electrically isolate & earth to code.		Certification in accordance with AS1530.3 1994 (R2016) and NCC Part C1	01	
BO01	Bollard		Proprietary Bollard to withstand vehicle impact, Size: 1300 mm (H) Finish: Powder coated Colour: Yellow	LEDA or LSP or equal	Refer Traffic Eng req's also. Anchor bolts preferred to be countersunk to minimise trip hazard.		Installation to comply with AS/NZS 2890.1 & 6	01	
BO02	Bollard		Proprietary Bollard to withstand vehicle impact Size: 900 mm (H) Finish: Powder coated Colour: Yellow	LEDA or LSP or equal	Refer Traffic Eng req's also. Anchor bolts preferred to be countersunk to minimise trip hazard.		Installation to comply with AS/NZS 2890.1 & 6	03	
BO03	Bollard		Proprietary Bollard to withstand vehicle impact Size: 1300 mm (H) Finish: Polished Stainless Steel Colour: -	LEDA or LSP or equal	Refer Traffic Eng req's also. Locking & removable footing installation.		Installation to comply with AS/NZS 2890.1 & 6	02	
BR01	Crash Barrier Type 1 Guardrail Standard		Guardrail Safety Barrier fixed to top of carpark slab and compliant to the 30kN impact load Post spacing: 2.0m, Type: Rhinostop Standard - Type 1 Finish: Hot dip galvanised	Rhino-Stop Safe Direction	Refer Traffic Eng req's also. Crash Barrier to be radius'ed to suit ends of slab.		Installation to comply with AS/NZS 1170.1 & AS2890.1 and Ausroads 'Guide to road Design - Part 6'	01	UNDER REVIEW
BR02	Crash Barrier Type 2 Guardrail 240		Heavy Duty crash barrier fixed to top of carpark slab Impact: compliant to the 240kN impact load Post spacing: max 800mm for 240 KN impact load, Type: Rhinostop 240 Finish: Hot dip galvanised	Rhino-Stop Safe Direction	Refer Traffic Eng req's also. Crash Barrier to be radius'ed to suit ends of slab.		Installation to comply with AS/NZS 1170.1 & AS2890.1 and Ausroads 'Guide to road Design - Part 6'	01	UNDER REVIEW
BR03	Crash Barrier Type 3 Sky-Edge Guardrail		Crash Barrier fixed to side of slab with integrated balustrade to infill mesh and compliant to the 30kN impact load Post spacing: 2.0m, Type: Rhinostop Skyedge - Type 4 Finish: Hot dip galvanised	Rhino-Stop Safe Direction	Refer Traffic Eng req's also.		Installation to comply with AS/NZS 1170.1 & AS2890.1 and Ausroads 'Guide to road Design - Part 6' Barrier to be non-climbable	01	UNDER REVIEW




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BR04	Crash Barrier Type 4 Screen Guardrail		Crash Barrier fixed to top of slab and compliant to the 30kN impact load, Integrated metal screen of 2.2 m (H) with anti-climb infill mesh Type: Rhinostop Screen - 2.2m Post spacing: 2.0m, Finish: Hot dip galvanised	Rhino-Stop Safe Direction	Refer Traffic Eng req's also. Crash Barrier to be radius'ed to suit ends of slab.		Installation to comply with AS/NZS 1170.1 & AS2890.1 and Ausroads 'Guide to road Design - Part6' Barrier to be non-climbable	01	UNDER REVIEW
BR05	Crash Barrier Type 5 Guardrail 240 with anti-climb mesh & fall protection, Level 01		Guardrail Safety Barrier fixed to top of carpark slab and compliant to the 240 KN impact load, configured with anti-climb mesh and fall protection Type: Rhinostop 240 - Type 4 Post spacing: max 800mm for 240 KN impact load, Finish: Powder coated finish. Colour: TBC	Rhino-Stop Safe Direction	Refer Traffic Eng req's also. Crash Barrier to be radius'ed to suit ends of slab.		Installation to comply with AS/NZS 1170.1 & AS2890.1 and Ausroads 'Guide to road Design - Part6' Barrier to be non-climbable	01	UNDER REVIEW
CA01	Carpet Office	LHAP-AR-FPA-DRG-CP-330000 series	Commercial Grade modular carpet tile Size: 500 x 500 mm Pattern: TBC Colour: TBC Skirting: SK01 (aluminum 100mm high skirting)	Interface	Low VOC Allow necessary floor preparation & leveling of slab for laydown and adhering of carpet tiles. Allow threshold trim typically under door leaf where change in floor finish.			01	
CD01	Safety Mesh Car park generally	LHAP-AR-FPA-DRG-CP-640000 series	Webnet Mesh 316 grade SS wire mesh (fixed to slab edge) Opening Size: 100mm x 175mm nom. (vertical diamond pattern) Mesh: 2mm thick wire	Tensile Design & Construct tensile.com.au	Fixings to manufacturer specs. (Stainless steel rope, corner slab edge bracket, etc.) Coordination & compliance required with feature attachments. Note that this mesh is only suitable where enclosed above or an anticlimb screen infront.		Mesh to comply and rated with; NCC D2.16, C1.9. AS1170.1, and facade to AS1530.1/3 & AS5113 Non-combustible building elements 100mm Ø Max. openings	03	
CD01B	Safety Mesh Car park Spiral Ramp	LHAP-AR-FPA-DRG-CP-640000 series	Stainless steel anti-climb 358 security mesh fixed to structural steel frame	Tensile Design & Construct tensile.com.au	Fixings to manufacturer specs. (Stainless steel rope, corner slab edge bracket, etc.) Coordination & compliance required with feature attachments. Note that this mesh is only suitable where enclosed above or an anticlimb screen infront.		Mesh to comply and rated with; NCC D2.16, C1.9. AS1170.1, and facade to AS1530.1/3 & AS5113 100mm Ø Max. openings Non-combustible building elements Mesh must be anti-climb	02	UNDER REVIEW
CD02	Safety Mesh Car park generally	LHAP-AR-FPA-DRG-CP-640000 series	Stainless steel anti-climb 358 security mesh fixed to structural steel frame		Fixings to manufacturer specs.		Mesh to comply and rated with; NCC D2.16, C1.9. AS1170.1, and facade to AS1530.1/3 & AS5113 Non-combustible building elements Mesh must be anti-climb	03	
CD03	Aluminium triangle panel 300mm Car park facade	LHAP-AR-FPA-DRG-CP-640000 series	Solid aluminium cladding panels, Size: 300mm triangle height, fixed to both safety mesh types Finish: Powdercoat paint - Interpon D2525 or equal Colour: Custom non-standard colour (4 Colour tones)	Tensile Design & Construct tensile.com.au Interpon	Fixings to manufacturer specs. (i.e. bolt / washer) UV stable finish. Ensure dis-similar metal seperation and coordination with mesh design & loading		NCC BCA C1.9 and AS1530.1/3 & AS5113 Non-combustible building elements	02	UNDER REVIEW
CD04	Aluminium angle profile 200mm Car park facade	LHAP-AR-FPA-DRG-CP-640000 series	Solid aluminium cladding angle profile, Size: 200mm equal angle, fixed to both safety mesh types Finish: Powdercoat paint - Interpon D2525 or equal Colour: Custom non-standard colour (4 Colour tones)	Tensile Design & Construct tensile.com.au Interpon	Fixings to manufacturer specs. (i.e. bolt / washer) UV stable finish. Ensure dis-similar metal seperation and coordination with mesh design & loading		NCC BCA C1.9 and AS1530.1/3 & AS5113 Non-combustible building elements	02	UNDER REVIEW
CD05	Aluminium angle profile 100mm Car park facade	LHAP-AR-FPA-DRG-CP-640000 series	Solid aluminium cladding angle profile, Size: 100mm equal angle, fixed to both safety mesh types Finish: Powdercoat paint - Interpon D2525 or equal Colour: Custom non-standard colour (4 Colour tones)	Tensile Design & Construct tensile.com.au Interpon	Fixings to manufacturer specs. (i.e. bolt / washer) UV stable finish. Ensure dis-similar metal seperation and coordination with mesh design & loading		NCC BCA C1.9 and AS1530.1/3 & AS5113 Non-combustible building elements	02	UNDER REVIEW
CD06	Decorative Vertical Mesh Covered walkway	LHAP-AR-FPA-DRG-CP-670000 series	Modular folded perforated solid aluminium panels Size to suit infill bay (width/height) Perforations: Combination of circular 9.5mm and 6mm diameter Pattern: 50% Max perforation, 60° staggered pattern Folded pan to vertical sides Fixings: Concealed Fixed Finish: Powdercoat paint - Interpon D2525 or equal Colour: Custom non-standard colour (4 Colour tones)	Solidal Metal	Fixings to manufacturer specs. (Stainless steel wire, rail & tamperproof fixing, etc.) Coordination & compliance required with feature attachments. Thickness and size of sheet size TBC with supplier if adequate vandal proof		NCC BCA C1.9 and AS1530.1/3 & AS5113 Non-combustible building elements Screen to be non-climbable	03	




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CD07	Aluminium panel cladding Level 7	LHAP-AR-FPA-DRG-CP-110000 series	Solid aluminium panels 3mm thick Top edge prefolded to allow fixings to concrete soffit Finish: Powdercoat paint - Interpon D2525 or equal Colour: Custom non-standard colour (4 Colour tones)		Fixing to concrete slabs to structural engineer's requirements		NCC BCA C1.9 and AS1530.1/3 & AS5113 Non-combustible building elements	03	
CH01	Chair Office	LHAP-AR-FPA-DRG-CP-330000 series	Vitra; ID Mesh; seat Volo; backrest diamond mesh; 3d adjustable armrests; polished aluminium base; fully adjustable; colors tbc	Vitra	Furniture layout indicative in drawings. Not included in the tender scope.			02	
CL01	Ceiling Typical Wet Areas	LHAP-AR-FPA-DRG-CP-330000 series	13mm suspended moisture resistant plasterboard ceiling, taped and set joints. System: Rondo Keylock system or equal Paint finish: PA03	Gyprock & Rondo or equal	Allow for P50 shadow gaps at all wall/ceiling junctions. Wall finish to typically continue 100mm above ceiling.			01	
CL02	Ceiling Office	LHAP-AR-FPA-DRG-CP-330000 series	13mm suspended plasterboard ceiling, taped and set joints. System: Rondo Keylock system or equal Paint finish: PA02	Gyprock & Rondo or equal	Allow for P50 shadow gaps at all wall/ceiling junctions. Wall finish to typically continue 100mm above ceiling.			01	
CL03	Ceiling Level 7 lift lobby	LHAP-AR-FPA-DRG-CP-140000 series	9mm Fibre Cement Sheet ceiling System: Rondo Keylock system or equal	Cemintel	Allow for express joints installation. Refer manufacturers installation procedures when working with and handling of material & cleanup.		To AS/NZS 2908.2-2000, AS4055, NCC C1.9 -10, AS1530.3 & AS3837 Asbestos products are strictly prohibited from use.	03	
CO01	Concrete Finish Type 1 Car park - Floor		Exposed Concrete Floor Finish: trowelled finish and clear impregnating sealant (WM04) Finish to concrete must be non-squeal.				Undercover & falls less than 1:14. Slip resistance to be min. P3, R10. Roof / External & falls less than 1:14; Slip resistance to be min. P4, R11. Certification inaccordance with SA-HB198-2014 and AS/NZ4586	02	
CO02	Concrete Finish Type 2 Lift and Fire Stairs, and Vertical structural concrete walls		Exposed In-Situ off-form concrete walls Finish: Class 2 finish PA06 applied to ground level concrete.					01	
CO03	Concrete Finish Type 3 Car Ramps - Sides walls		Exposed In-Situ off-form concrete side walls Finish: Class 2 finish					01	
CO04	Concrete Finish Type 4 Car park - Floor Ramp		Exposed Concrete Ramp Finish: Wood Float Finish				Roof / External & falls less than 1:14; Slip resistance to be min. P4, R11. Certification inaccordance with SA-HB198-2014 and AS/NZ4586	01	
CO05	Concrete Finish Type 5 Car park - Conc Columns		Exposed In-Situ concrete column Finish: Class 2 finish PA06 applied to ground level concrete.					01	
DP01	Down Pipe Type 1 Carpark down pipes		Exposed heavy duty 150mm PVC down pipe Size: 150mm (Final size to hyd eng req's) Finish: Black Down pipe to have FX01 impact guard		Size and capacity to hydraulic engineers spec. Prime and precoats as required			03	
DP02	Down Pipe Type 1 Walkway down pipes		Expressed SS CHS down pipe paint finish. Size: 100mm x 4mm wall (Final size to hyd eng req's) Finish: PA08 - Black paint finish to match structural steel Down pipe to match cleat and fixings.		Size and capacity to hydraulic engineers spec.			03	
DP03	Down Pipe Type 3 Exposed carpark down pipes		Exposed mild steel 150mm down pipe Size: 150mm (Final size to hyd eng req's) Finish: Galvanised		Size and capacity to hydraulic engineers spec.			03	
FC01	Compressed Fibre Cement Sheet Type 01 Internal Wet area Ground Level		9mm Fibre Cement Sheet substrate to internal wall or ceiling. To be suitable for wetareas and Tiling over. CFC sheet typically to be water resistant / inhibit water absorption. Include propietory framing, fixing to support FC sheet to manufacturers req's. Manufacaturer: CSR Product: 9mm Cemiseal Wall board - Recessed Edge with water block technology	CSR Gyrock or Equal	FC sheet typically fixed, tape and set to suit adhering of tiles over. Reinforced external corners and edges of FC with Priopietory setting angles. Refer manufacturers installation procedures when working with and handling of material & cleanup. If this can not be met, then PB02 would be recommended for internal applications.		To AS/NZS 2908.2-2000, AS4055, NCC C1.9 -10, AS1530.3 & AS3837 Asbestos products are strictly prohibited from use.	01	


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FW01	Floor Waste- Smart Tile Floor Grate Accessible WC	LHAP-AR-FPA-DRG-CP-333300 series	Reece Bermuda; 100 x 100 square 316 grade SS floor waste with tile insert Tile insert to match surrounding floor tile, Code: 1409640	Reece or equal			Slip rating of tile insert to match surrounding specified wet area floor tiling.	02	
FX01	Downpipe Protector		Suitable for pipe sizes of 160 mm DIA, 1200 mm (H), Heavy duty galvanised steel, Finish: Powder coated, Colour: Yellow					01	
FX02	Rainwater Outlets Lift and Fire Stairs Conc roof		SPS outlets cast in slab with spitters, Size: 225 mm Diameter	Sydney Plumbing Supplies	To hydraulic engineers spec.			01	
FX03	Steel Corner Guards		Metal corner guards Finish: Powdercoat Yellow		To traffic engineers spec.			03	
FX04	Boom Gate		Automatic Boom Gate with card reader or access control equipment		To traffic engineers spec. Allow for Bollards to protect from vehicle impact & also bollards between to avoid kerb jumping			01	
FX05	Vehicle Height Bars Carpark entry & pre - ramp		High contrast Vehicle height bars. Single bar 3m L x 100mm H x 50mm W or Double length bar at 6m L Text: "LOW CLEARANCE 2.5M" located at entry of building "LOW CLEARANCE 2.2M" located prior to ramps up to Level 1 Finish: Powdercoat Yellow with contrasting text	barrier group or equal	To traffic engineers spec. Caution Height Bar and bracket to be adequately mechanically anchored into structure to support in scenarios of impact and abuse.			01	
FX06	Speed Bumps Carpark alsies		Single or double length Speed bump High density durable rubber. Finish: Non slip patterned Yellow constrasting black speed bump.	Safe roads or equal	To traffic engineers spec. Traffic eng to confirm if high or low profile required. Allow for end caps.			01	
FX07	Light pole guard		Heavy duty galvanised steel light pole guard Finish: Powder coated Colour: Yellow					03	
FX08	Pay station Pedestrian entry		Pay station with card payment only To vendor requirements		Pay station shown indicative in drawings. Not included in the tender scope.			03	
FX09	Pay station Pedestrian entry		Pay station with combined card & cash payment To vendor requirements		Pay station shown indicative in drawings. Not included in the tender scope.			03	
FX10	Safety mirror		Heavy duty outdoor convex safety mirror Vandal, weather and corrosion resistant Finish: SS support		To traffic engineers spec. Allow for wall installation bracket			03	
FX11	Garbage bin Landscape area		BONDI BIN 120L Single 605L x 640D x 1200H mm Finish: Hardwood panels Powdercoat paint - Interpon D2525 or equal Colour: Custom non-standard colour Surface fixings	Botton+Gardiner	To match landscape architects bin selection			03	
FX12	Seat Pedestrian entry		Urban Classic AS1428.2 Seat Product No: US1.AS1428.18.HW - 1800mmL Hardwood Urban Classic AS1428.2 Seat Finish: Cast aluminium frame and arm rests (2 x arm rests per seat), hardwood slats (oiled Spotted Gum) Fixing: Concealed Threaded rod	Botton+Gardiner	To match landscape architects seat selection		To comply with AS 1428.2-1992	03	
FX13	Small Garbage bin Lift lobbies		FGP BIN 65L 495W x 485D x 930H mm Finish: Hardwood panels Colour: Custom non-standard colour Powdercoat paint - Interpon D2525 or equal Surface fixings	Botton+Gardiner				03	
GR01	Steel Grate Car Ramp		Type 875D Steel Mesh Grate with QuickLok boltless locking system Size: 338mm (W) x 500mm (L) x 50mm (D), Slot width of max.7mm Finish: Cast Iron - Seallled Black	ACO or equal	To Hydraulic engineers spec.		AS3996 Class D complaint & AS3996 3.3 & AS1428.2 complaint for wheelchair and heelguard AS4586 non slip P4.	01	
GR02	Steel Grate Outside lift lobby & fire doors		Type 805Q Steel Mesh Grate with QuickLok boltless locking system Size: 150mm (W) x to suit extent of door frame (L) x 40mm (D), Slot width of max. 7mm Finish: Stainless steel with non slip nodes.	ACO or equal	To Hydraulic engineers spec.		AS3996 Class B complaint & AS3996 3.3 & AS1428.2 complaint for wheelchair and heelguard AS4586 non slip P4.	01	

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HR01	Handrail Type Fire Stair external handrail	LHAP-AR-FPA-DRG-CP-320000 series	Hot Dip Galvanised steel tube handrail fixed to Fire Stair wall, Size: 42mm diameter				Corners to be rounded to ≥5mm to meet AS1428.1 & .2	01	
IN01	Insulation Wall - Type 01 Thermal Office & other Airconditioned spaces		Bradford Gold Batts Thermal insulation, 75mm Glass Wool Insulation @ 11kg/m3 Rvalue 1.4 min (R1.4 Total Wall)	Bradford	Ensure that the insulation does not sump and adequately supported within the cavity of stud work.		DTS to NCC section J Insulation must be at minimum noncombustible, nonhazardous and biosoluable	01	
IN02	Insulation Roof - Type 02 Thermal Office & other Airconditioned spaces		Bradford Anticon 140 Thermal insulation Size: 140mm Glass Wool Insulation @ 11kg/m3) Rvalue 3.2 min (R3.2 Total Roof)	Bradford	Include BM01 roof sarking. Include thermal breakers if		DTS to NCC section J Insulation must be at minimum noncombustible, nonhazardous and biosoluable	01	
IN03	Insulation Wall - Type 03 Thermal Office & Switch & comms rooms.		Bradford Multitel Thermal insulation, 50mm Glass Wool Insulation @ 18kg/m3 Rvalue 1.3 min (R1.4 Total Wall)	Bradford	Ensure that the insulation does not sump and adequately supported within the cavity of stud work. Confirm with electrical eng of foil facing suitable in electrical & comms rooms.		DTS to NCC section J Insulation must be at minimum noncombustible, nonhazardous and biosoluable	01	
IN04	Insulation Underslab (Inground) - Type 04 Thermal Office		Under slab closed cell Thermal insulation boards TBC Size: 30mm Rigid Insulation board Rvalue 1.4 min (R1.33 Total min)	TBC	Board must meet structural load reqs of being placed under slab.		DTS to NCC section J NCC section C1.9 and AS1530.3 to comply with AS4859.1 Must be CFC/ HCFC free and OzDP	03	UNDER REVIEW
IN05	Insulation Slab soffit - Type 05 Thermal Soffit		Product: Xtratherm Xtroliner Std Thickness: 30mm Rvalue 1.4 min (R1.33 Total min)	Bradford	Ensure that the insulation is adequately supported & pinned to slab soffit		DTS to NCC section J NCC section C1.9 and AS1530.3 to comply with AS4859.1 Must be CFC/ HCFC free and OzDP	03	UNDER REVIEW
JU01	Manager's Desk Office	LHAP-AR-FPA-DRG-CP-330000 series	Full length office desk 25mm HMR MDF desktop, laminate finish with matching ABS edging, mid support as req Allow for cable tray under, and cable ports at ends and centre.		Furniture layout indicative in drawings. Not included in the tender scope.			02	
JU02	Manager's drawer mobile pedestal Office	LHAP-AR-FPA-DRG-CP-330000 series			Furniture layout indicative in drawings. Not included in the tender scope.			02	
JU03	Manager's Chest Draw Office	LHAP-AR-FPA-DRG-CP-330000 series			Furniture layout indicative in drawings. Not included in the tender scope.			02	
JT01	Joint Movement General		Movement Joint in substrate and Finish to be coordinated with structural & manufacturers requirements. Indicatively shown in architectural drawings.		Refer structural, and supplier req's			01	
LV01	Louvre Assembly Type 1 - Mechanical		Horizontal weatherproof louvre Assembly Code: TBC Size: 155mm Finish: Interpon D2525 powder coat or equal Colour: tbc Louvres to be rear /conceal clip fixed to properitory mullion to rear. Aluminium Box frame where encapsulated in wall.	CS Louvres & Interpon	Louvres to be weather proof & have black vermin mesh behind. Open area to meet mechanical req's. Capping and Flashings where req'd to surrounds to complete Stormproof envelope. Louvres must be vandal proof .			02	
LV02									
MR01	Mirror Accessible WC Wet Areas	LHAP-AR-FPA-DRG-CP-330000 series	Bobrick premium access compliant Mirror; Safety glass with Powdercoated black stainless steel angle frame; B2908-7777-001 406(w) x 990(h)	Bobrick	Concealed Wall Hanger		Installation to comply with AS 1428.1-2009 To comply with AS1288-2006	02	
PA01	Paint Type 1 - Plaster Walls Internal Office	LHAP-AR-FPA-DRG-CP-333300 series	System: Dulux - 'Wash & Wear' Colour: Dulux Vivid White Finish: Low Sheen Code: SW1G1 Coating system: 1 coat - 1 Step Prep [29micron dry film] 2 coats - Wash and wear - Low Sheen [2 x 28micron dry film]	Dulux	Low VOC acrylic Surface prep and application to manufac's reqs.			01	
PA02	Paint Type 2 - Plaster Ceilings Internal Office	LHAP-AR-FPA-DRG-CP-333300 series	System: Dulux - 'Wash & Wear' Colour: Dulux Vivid White Finish: Ceiling Flat Code: SW1G1 Coating: 1 coat - 1 Step Prep [29 micron dry film] 2 coats - Wash and wear - ceiling flat [2 x 28 micron dry film]	Dulux	Low VOC acrylic Surface prep and application to manufac's reqs.			01	

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PA03	Paint Type 3 - Wet area Ceilings Accessible WC	LHAP-AR-FPA-DRG-CP-333300 series	Dulux Ceiling White +PLUS Kitchen & Bathroom Paint Colour: Dulux Vivid White Finish: Semi Gloss Code: SW1G1 Coating: Dulux - 'Wash & Wear +PLUS Kitchen & Bathroom' 1 coat - 1 Step Prep [29 micron dry film] 2 coats - Wash and wear +PLUS Kitchen Bathroom [2 x 22 micron dry film]	Dulux	Low VOC acrylic Ceiling paint formulation with Mould shield protection Surface prep and application to manufac's reqs.			02	
PA04	Paint Type 4 - Door Frame Doors Frame External	refer door schedule	Dulux - 'Aquanamel' wash and wear Paint to steel door frame Colour: Dulux Domino TBC Finish: Semi Gloss Code: SG6G8 TBC Coating: 1 coat - Metal Shield All surface primer [10 micron dry film] 2 coats - Aquanamel - Gloss or Semi Gloss [2 x 22 micron dry film]	Dulux	Low VOC acrylic Colour subject to meeting AS1428.1 contrast Surface prep and application to manufac's reqs.			01	
PA05	Paint Type 5 - Door Leaf Doors Leaf External	refer door schedule	Paint to solid core timber faced door leaf Dulux - 'Aquanamel' wash and wear Colour: Dulux Domino TBC Finish: Semi Gloss Code: SG6G8 TBC Coating: 1 coat - 1 Step Prep [29 micron dry film] 2 coats - Aquanamel - Semi Gloss [2 x 22 micron dry film]	Dulux	Low VOC acrylic complete coverage to all sides of door leaf Colour subject to meeting AS1428.1 contrast Surface prep and application to manufac's reqs.			01	
PA06	Paint Type 6 - Masonry Surfaces Anti- graffiti paint	refer plans	Paint to vertical masonry surfaces to 1800mm at ground level (concrete, block etc) Dulux APP Surface Shield HD - 'Heavy duty' Colour: Clear Finish: Invisible Low gloss Code: 992H0049 Coating: 1 coat - 2 passes of APP Surface Shield HD - 'Heavy duty'	Dulux	Low VOC acrylic coverage to 1800mm High Surface prep and application to manufac's reqs.			01	
PA08	Paint Type 7 - External Steel work Portal steelwork & cleat Walkway structure		Decorative Paint to Pre primed Steel Portal Frame Dulux Weathershield Finish: Satin Colour: Blackwood Bay Code: NZ10H2 Coating: Prime - Structural Primer refer structural engineer spec 1 coat - 1 Step Prep [29 micron dry film] 2 coats - Aquanamel - Satin [2 x 22 micron dry film]	Dulux	Low VOC acrylic Surface prep and application to manufac's reqs. Paint external grade and UV stable.			01	
PA09	Paint Type 8 - External Glulam timber Walkway structure		Paint to Timber portal Glulam structure Intergrain UltraClear UV - External Grade Finish: Satin Colour: Ultra clear Coating: Pretreatment of timber for Fungal & termite. 1 coat - Factory Presealler - Intergrain UltraClear UV - Satin [34 micron dry film] to ALL surfaces & additional 2 coats to end grains 2 coats - Intergrain UltraClear UV - Satin [2 x 34 micron dry film]	Intergrain	Low VOC acrylic where possible Surface prep and application to manufacturers requirements. Paint external grade and UV stable. Timber must also be pretreated for termite and fungal proof. Ensure that this finish is compatible with finishing coats. Final approval by structural eng. & lumber supplier that finish is acceptable.			01	
PA11	Paint Type 11 Car park Line Marking		Paint finish to kerbs & upstands slip resistant, reflective finish Dulux Aeromaster water borne areodrome paint Color: TBC	Dulux			Slip resistance to be min. Undercover: P3, R10 minimum. External or Sloping: P4, R11 min. Certification inaccordance with SA-HB198-2014 and AS/NZ4586	01	UNDER REVIEW
PA12	Paint Type 12 Car park Line Marking		Accessible Parking Bay slip resistant traffic marking paint to carpark floor slabs, reflective finish Dulux Aeromaster water borne areodrome paint Colour: Blue to comply with AS1428.1 & White wheelchair	Dulux			Slip resistance to be min. Undercover: P3, R10 minimum. External or Sloping: P4, R11 min. Certification inaccordance with SA-HB198-2014 and AS/NZ4586	01	UNDER REVIEW

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PA13	Paint Type 13 Car park Line Marking		Slip resistant traffic marking paint to carpark floor slabs, reflective finish Dulux Aeromaster water borne areodrome paint Colour: TBC	Dulux			Slip resistance to be min. Undercover: P3, R10 minimum. External or Sloping: P4, R11 min. Certification inaccordance with SA-HB198-2014 and AS/NZ4586	01	UNDER REVIEW
PB01	Plasterboard Type 01 Office and Lift Lobby Level 7		13mm Plasterboard Standard, to wall or ceiling. Include proprietary framing to support PB to manufacturers req's. Manufacaturer: CSR Product: 13mm Standard Gyrock	CSR Gyrock or Equal	Plasterboard typically tape set and sanded to suit Paint finish over. Reinforced external corners and edges of PB with Priopietory setting angles. Typically P50 to ceilings.		To AS/NZS 2588, AS/NZS3837	01	
PB02	Plasterboard Type 02 Wet Areas		13mm Plasterboard Moisture Resistant to wall or ceiling. Include proprietary framing to support PB to manufacturers req's. Manufacaturer: CSR Product: 13mm Aquacheck	CSR Gyrock or Equal	Plasterboard typically tape set and sanded to suit Paint finish over. Reinforced external corners and edges of PB with Priopietory setting angles. Typically P50 to ceilings.		To AS/NZS 2588, AS/NZS3837	01	
RA01	Roof Anchor Fall arrest system		Fall arrest system including fixings and accessories Finish: Grade 316 electropolished stainless steel to provide corrosion protection	Karabiner Access or MSA or Equal	Fall arrest system to be reviewed by Safety Access Consultant for wholistic safety access strategy with suppliers system. Indicatively shown.		Installation to comply with AS/NZ 1170, AS/NZ 1891 Cable and anchor brackets to comply with AS1394 and AS 2759	01	
RA02	Ladder Anchor Points		Ladder anchor points fixed to suitable substrates Finish: Grade 316 electropolished stainless steel to provide corrosion protection	Karabiner Access or MSA or Equal	Fall arrest system to be reviewed by Safety Access Consultant for wholistic safety access strategy with suppliers system. Indicatively shown.		To comply with AS1394 and AS 2759	01	
RF01	Roof Sheetting Type 1		Profile: Klip lok 406 Finish: Colour bond Colour: TBC Minimum fall: 1.5 deg	Lysaght	Assembly, fixings, support and flashings to manufacturers requirements. Finish to match. Purlins & framing to structural eng req's. Galvanised Fall safety mesh under to work safety req's.		To comply with AS 1562.1:2018	01	
RF02	Translucent Roof sheetting Type 2		Danpal System: Solarspace system Profile: DPAC100 - Multicell Finish: Sheetting Translucent (Clear) Framing colour White Gutter: Powder coat white to gutter and brackets etc. Down pipe refer DP01 reference.	Danpal	Assembly, fixings, support and flashings to manufacturers requirements. Finish to match. Roof framing White powder coat. Structural elements refer structural eng.		To comply with AS/NZS 4256 & AS 1562.3:2018	01	
RM01	Resilient Material Comms Room		Sheet Vinyl Antistatic nonslip Product: Primo SD Colour: Dark Cool Grey 0563	Tarkett	Allow for ardite floor leveling and floor prep to ensure suitable finish for vinyl floor.		Slip resistance to be min. P3, R10 . Certification inaccordance with SA-HB198-2014 and AS/NZ4586 Antistatic to EN1815	01	
RWO	Rainwater Outlets Conc Slab		Finish: Grade 316 electropolished stainless steel to provide corrosion protection SPS outlets cast in slab Size: 225 mm Diameter	Sydney Plumbing Supplies	To hydraulic engineers specification			01	
SF01	Accessible Toilet Suite Accessible Wet Area	LHAP-AR-FPA-DRG-CP-330000 series	Caroma Care 800 Cleanflush Wall Faced Invisi Series II Suite with backrest; Anthracite grey seat Invisi Series II Round Dual Flush Plate & Raised Care Buttons (metal)	Caroma P: 13 14 16			Installation to comply with AS 1428.1-2009 WELS 4 Rated, 4.5/3L (3.5L Average Flush)	01	
SF02	Ambulant Toilet Suite Ambulant Wet Area	LHAP-AR-FPA-DRG-CP-330000 series	Caroma Liano Cleanflush easy height wall faced close coupled pan, Code:- 843305W, Caroma Liano Double Flap Soft close seat, 33 mm (H), Code:- 300040W, Colour: White	Caroma or equal			Installation to comply with AS 1428.1-2009 WELS 4 Rated, 4.5/3L (3.5L Average Flush)	02	
SF03	Basin Accessible Wet Areas	LHAP-AR-FPA-DRG-CP-330000 series	Caroma Opal 510 wall basin 632600W. 450 D Finish: White / Satin	Caroma or equal			Installation to comply with AS 1428.1-2009	03	

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SF04	Bottle Trap Accessible Wet Areas	LHAP-AR-FPA-DRG-CP-330000 series	Caroma Eco Chrome Bottle Trap, chrome plated solid brass wall basin trap, Code: 687295C	Caroma or equal			Installation to comply with AS 1428.1-2009	02	
SK01	Skirting Type 1 - Internal Office	LHAP-AR-FPA-DRG-CP-330000 series	Commercial Grade Aluminium Skirting with rubber strip insert Size: 100mm Style: Decorum Concealed fixed bevel top skirting Colour: Clear anodized	Criterion Industries	Conceal fixed Corners: PVC stakes to internal and external corners. Joints: concealed joining stakes. Fixings: concealed behind rubber strip			01	
SN01	Stair Nosing Fire Stairs - Internal Standard		Surface applied / painted 50mm nosing strip to all stair treads. Finish: non-slip & 30% contrast with tread colour. Colour: Black TBC				In accordance with AS1428.1 / 4 Slip resistance to be min. P3, R10 (External min. P4, R11) Certification inaccordance with SA-HB198-2014 and AS/NZ4586	01	
TGSI 01	Tactile Ground Surface indicator Type 1 Carpark stairs		Latham stainless steel tactile with shaft & contrasting supagrit. Conceal epoxy fixed Style: Latham TI Colour: Sparkling black Finish: Non slip Supagrit	Latham			Installation to comply with AS 1428.1-2009	01	
TF01	Timber Glulam Portal frame structure Covered walkway		Structural GluLam Hardwood timber Beam Product: Hyne17-SEL Straight Cut: Glue Laminated Timber Grade: H3 minimum & UV sealer coats Species: Hybrid 'southern pine' Finish: PA09 Intergrain UltraClear UV external grade Factory Presealler to ALL surfaces & additional 2 coats to end grains Minimum 2 Finishing coats to ALL surfaces and end grain. Fixings: Black hexhead bolt recessed into timber face, to structural eng details. Structural steel Brackets are PA08	Xlam, Hyne or equal	Timber to be prefinished and Paint external grade and UV stable. Manufacturer to confirm suitability of external use. Timber must also be pretreated for termite and fungal proof. Ensure that this finish is compatible with finishing coats. Timber must be fixed sufficiently off the ground & brackets to keep the timber and end grain free from contact with moisture.		For Structural timber design, sizes and joints refer structural eng req's and also to meet AS1720.1-2010, AS1684 etc. Final approval by structural engineer required for timber sealler. All timber CoC to be confirm FSC certification and responsiblity sourced in accordance with PEFC and meets AS 4707: 2014	01	
TL01	Tile Type 1 - Wet area Walls Toilets generally	LHAP-AR-FPA-DRG-CP-330000 series	Commercial Grade vitrified ceramic wall with epoxy grout colour to match tile, tile to continue 100mm above ceiling line Size 100 x 300mm Colour: White Finish: Matt Waterproof membrane: WM02 Adhering of tiling to be compatible with the waterproofing membrane underneath. Refer manufacturer reqs.	TBC	BAT Trim to nib wall & positive corners. Continue tile typically 100mm above ceiling line. Silicone Joints to match grout colour & antimould.			01	
TL02	Tile Type 2 - Wet area Floors WCs generally	LHAP-AR-FPA-DRG-CP-330000 series	Commercial Grade vitrified ceramic floor tile with epoxy grout colour to match tile Size 600 x 300mm Colour: Grey TBC Waterproof membrane: WM02. Adhering of tiling to be compatible with the waterproofing membrane underneath. Refer manufacturer reqs. Bedding: Cement bedding buildup as reqd & F-stop recommended.	TBC	Heavy duty recessed angle trim to door thresholds where change in floor finish under door leaf. Silicone Joints to match grout colour & antimould.		Slip resistance to be min. P3, R11. Certification inaccordance with SA-HB198-2014 and AS/NZ4586	01	
TW01	Tapware Accessible Wet Area	LHAP-AR-FPA-DRG-CP-330000 series	Caroma Nordic Care Basin Mixer with extended lever handle CODE: 90965C5A, Finish: Chrome	Caroma or equal			Installation to comply with AS 1428.1-2009	01	
TW02	Tapware Carpark		Hose Tap vandal proof and key operated Flat MI 20mm, Finish: Chrome / polished, Code: TH70F Austworld	Metforge or equal			To comply with AS/NZS 3718	01	

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TW03	Tapware Ambulant Wet Area	LHAP-AR-FPA-DRG-CP- 330000-series	Geroma Vivas Basin Mixer with flat paddle handle CODE: R, Finish: Chrome	Geroma or equal				02	
WM01	Waterproof Membrane Type 1 Concealled Internal Wet area / toilets, Floors & Walls		Continuous, liquid applied membrane applied: Above to screed / sheet substrate: Primer: Tremproof 200EC Base Coats: Vulkem H2 Plus Colour: TBC Neutral Grey Bond breakers to corners as per manufacturers req's Below Screed: Primer: Tremproof 200EC Base Coats: Vulkem NEM Colour: TBC Neutral Grey Bond breakers to corners as per manufacturers req's	Tremco or equal	Surface prep, Priming, Bond breakers, Number of coats and Membrane applied in accordance with manufacturer req's & warranties. Note, 20yr Warrantry period requires membrane above and below screed. Membrane to be coordinated with tiler that tilers adhesive & installation is compatible & suitable with WM manufacturer warranties. Continue WM into Floor waste to manufacture req's. (Final confirmation required from Tremco to confirm prep, prime, system and number of coats) Typically 450mm turnup to walls For showers continuous to full height.		To comply with AS4654.1 & AS3740	02	UNDER REVIEW
WM02	Waterproof Membrane Type 2 Exposed-External Fire Stairs and Lift Core overrun & Concrete Roofs		Continuous, seamless, monolithic liquid applied trafficable waterproof membrane to concrete roof /overruns. Continuous, liquid applied membrane:- Primer: AlphaGuard Tremco Epoxy primer Base Coats: AlphaGuard Bio base coat Additional Coat: AlphaGuard Bio top coat Colour: TBC – Neutral Grey to match concrete Finish: Matt & non-slip Trafficable, UV stable. OR Radcon formula #7	Tremco or equal	Surface prep, Priming, Bond breakers, Number of coats and Membrane applied in accordance with manufacturer req's & warranties. (Final confirmation required from Tremco to confirm prep, prime, system and number of coats) Typically from roof to top of hob, but tape and mask exposed Class 2 concrete for clean finish lines. Always consult architect visible extent of membrane prior to prep and application.		To comply with AS4654.1 & .2	03	
WM03	Waterproof Membrane Type 3 Concealled Below Grade Lift Pit		Continuous, liquid applied membrane applied to concrete lift pit. Primer: Tremco prime Non-porous primer Multiple Coats: Tremproof 250GC Colour: TBC Neutral Grey Bond breakers to corners, and wall protection board as per manufacturers req's.	Tremco or equal	Membrane applied in accordance with manufacturer warranties. (Final confirmation required from Tremco to confirm prep, prime, system and number of coats) Wall drainage cell, geotech fabric, ag lines, fill to civic and landscape req's		To comply with AS4654.1	02	UNDER REVIEW
WM04	Waterproof Membrane Type 4 Carpark deck slabs		Impregnating sub surface sealer. Application: Radcon formula #7 Colour: Clear / no change Finish: Matt & non-slip. Must not reduce slip rating Trafficable, UV stable.	Radcon #7	Clean and surface prep, number of coats and applied in accordance with manufacturer warranties. (Final confirmation required from Radcon to confirm prep and number of coats) Refer Structural req's & recommendations also.		To comply with AS4654.1	02	UNDER REVIEW
WM05	Waterproof Membrane Type 5 To concealed rear face of planter bed walls and enclosure		Concealled to the rear faces of the planter bed. Refer Civil & Landscape architect spec, extent and details. To be coordinated will block wall supplier and applicator to ensure suitability and compatibility.	refer Landscape Architect documentation	Surface prep, Priming, Bond breakers, Number of coats and Membrane applied in accordance with manufacturer req's & warranties. Allow drainage cell, wall protection etc. refer landscape spec. Must be root impervious.		To comply with AS4654.1	02	

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WS01	Wheel Stop Concrete		Black Rubber & reflective tape wheel stop Size: 1650 mmL x 100mmH x 165mm Finish: Rubber and reflective yellow tape. To suit minimum B85 vehicles	Rhino or Armco or equal	fixings to manufacturer specs. Confirm anchor locations in slab with structural & eng prior.		Installation to comply with AS/NZS 1170.1 & AS2890.1 and Ausroads 'Guide to road Design - Part6'	01	