

Bankstown City Campus Development Façade Design Certification and NCCC2019, Volume 1, Amendment 1 – Performance Requirement FP1.4 compliance

Dear Shane Tozer

Yuanda Australia confirms that the structural design of the façade systems, for the unitised curtain wall and cladding for the Bankstown City Campus Development (the Project), to be supplied and installed by Yuanda Australia as summarised in **table 1** and detailed in the drawings indicated in **table 2**, have been undertaken in accordance with the following Australian Standards and project documents:

- AS 1170 all parts - Structural design actions
- AS 1288 - Glass in buildings, selection and installation
- AS 1664.1 - Limit state design (Aluminium)
- AS 2047 - Windows in buildings, selection and installation
- AS 2208 - Safety glazing materials in buildings
- AS 2312 - Corrosion protection of structural steel
- AS 4110 - Steel structures
- AS/NZS 4284:2008 - Testing of building facades
- AS 4666 - Insulated glass units
- AS 4667 - Quality requirement for cut-to-size and processed glass
- AS/NZS 4673 - Cold-formed stainless steel structures
- AS 5216 - Design of post-installed and cast-in fastenings in concrete
- Section J JV3 Report by E-Lab Consulting for WSU Bankstown City Campus, Project No. P00007, Revision 4, Issued 2 September 2021.
- FP1.4 Weatherproofing Design Performance Solution Report, by Inhabit Australasia Pty Ltd, Report FA-RPT-000500, Revision 00, dated 1 July 2021
- Performance-Based Design Report (Fire Engineering Evaluation), by Integral Group Consulting Engineers, Report No. M.WSU-0101 FE-R003, Rev D, dated 23 August 2021

Table 1 - Façade types

Façade Type	Façade Type Description
FT-CW1	Unitized Glazed Curtain Wall with expressed glazing capture
FT-CW2	Unitized Glazed Curtain Wall with Horizontal sunshades
FT-CW3	Unitized Glazed Curtain Wall with Vertical sunshades
FT-CW4	Unitized Curtain Wall with Diagonal sunshades
FT-CW5	Unitized Curtain Wall Zones with framed box surround
FT-RS1	Terracotta rainscreen cladding, curtain wall with intermittent glazing
FT-RS2	Terracotta baguette rainscreen to blockwork and bike storage areas
FT-LV1 & LV2	Louvres with associated blanking and insulation
FT-LV11 & LV12	Louvres with associated blanking and insulation
FT-LG1	Single Glazed Louvres (operable)
FT-LG2	Double Glazed Louvres (operable)
FT-WW1	Unitized Strip Curtain Wall at Terraces
FT-WW2	Strip window wall to courtyards
FT-WW3	Louvred window wall

FT-WW4	Window Wall and associated steelwork in level 4 to 8 courtyard void
FT-GRC1	GRC perimeter rainscreen to curtain wall (with VE option to substitute for 3mm aluminium sheet)
FT-GRC2	GRC facade cladding to full extent of canopy fascia's including secondary support
FT-WB1	Full height glazed balustrade / wind barriers
FT-BA1	External glazed balustrades. Coloured glass balustrades at curtain wall
AM-BA2, AM-BA3, AM.BA5	External Glazed balustrades with steel stanchions
FT-SG1	Ground level glazing
FT-SG2	Lobby Glazed Facade (glass fin)
FT-SG3	Appian way facade (flat and curved glazing)
FT-AW1	Metal rainscreen cladding
FT-MC1	Profile metal sheet cladding (L18 cooling tower and lift overrun walls)
FT-ST1	Stone rainscreen cladding level 4 to 8 void
AM.CC1	Circular column cladding

Table 2 - Façade drawing list

Drawing Number	Drawing Title	Rev
YUA-FA-1001	FACADE LAYOUT PLAN-LEVEL 1	A
YUA-FA-1002	FACADE LAYOUT PLAN-LEVEL 2	A
YUA-FA-1003	FACADE LAYOUT PLAN-LEVEL 3	A
YUA-FA-1004	CEILING FACADE LAYOUT PLAN-LEVEL 1	A
YUA-FA-2001	FACADE ELEVATION NORTH - L1-L3	A
YUA-FA-2002	FACADE ELEVATION EAST - L1-L3	A
YUA-FA-2003	FACADE ELEVATION SOUTH - L1-L3	A
YUA-FA-2004	FACADE ELEVATION WEST - L1-L3	A
YUA-FA-2005	FACADE PARTIAL ELEVATION - L1-L3	A
YUA-FA-3001	PARTIAL ELEVATION NORTH - L1-L3	A
YUA-FA-3002	PARTIAL ELEVATION NORTH - L1-L3	A
YUA-FA-3003	PARTIAL ELEVATION EAST- L1-L3	A
YUA-FA-3004	PARTIAL ELEVATION EAST- L1-L3	A
YUA-FA-3005	PARTIAL ELEVATION SOUTH- L1-L3	A
YUA-FA-3006	PARTIAL ELEVATION SOUTH- L1-L3	A
YUA-FA-3007	PARTIAL ELEVATION WEST- L1-L3	A
YUA-FA-3008	PARTIAL ELEVATION WEST- L1-L3	A
YUA-FA-3009	PARTIAL ELEVATION WEST- L1-L3	A
YUA-FA-3010	PARTIAL PLAN NORTH- L1-L2	A
YUA-FA-3011	PARTIAL PLAN NORTH- L3	A
YUA-FA-3012	PARTIAL PLAN EAST- L1	A
YUA-FA-3023	FAÇADE PARTIAL ELEVATION- L1-L3	A
YUA-FA-3024	PARTIAL ELEVATION WEST- L2-L3	A
YUA-FA-3025	PARTIAL ELEVATION WEST- L2-L3	A
YUA-FA-3026	PARTIAL ELEVATION SOUTH- L1-L3	A
YUA-FA-3033	PARTIAL ELEVATION SOUTH- L1-L2	A
YUA-FA-4001	SECTION OF EAST ELEVATION	A
YUA-FA-4002	SECTION OF WEST ELEVATION	A
YUA-FA-4003	SECTION OF SOUTH ELEVATION	A
YUA-FA-4004	SECTION OF NORTH ELEVATION	A
YUA-FA-5001	MOVEMENT DETAIL TYPICAL STACK JOINT	A
YUA-FA-5002	MOVEMENT DETAIL TYPICAL MULLION	A
YUA-FA-5003	TYPICAL BRACKET DETAIL	A
YUA-FA-5004	TYPICAL MULLION DETAIL LOUVER WITH BACK PAN	A

YUA-FA-5005	TYPICAL MULLION DETAIL WITH HORIZONTAL FIN	A
YUA-FA-5006	TYPICAL BRACKET DETAIL	A
YUA-FA-5007	TYPICAL SECTION DETAIL	A
YUA-FA-5008	TYPICAL SECTION DETAIL WITH HORIZONTAL FIN	A
YUA-FA-5009	TYPICAL MULLION DETAIL WITH ALUM.FEATURE	A
YUA-FA-5010	TYPICAL MULLION DETAIL WITH ALUM.FEATURE	A
YUA-FA-5011	L3 PARAPET SECTION WITH OVERFLOW	A
YUA-FA-5012	SECTION DETAIL @ LEVEL 1 SOFFIT	A
YUA-FA-5013	TYPICAL MULLION DETAIL WITH SLOPED FIN	A
YUA-FA-5014	TYPICAL SECTION DETAIL	A
YUA-FA-5015	SLOPED FIN DETAIL	A
YUA-FA-5016	SLOPED FIN 3D VIEWS	A
YUA-FA-5017	CANOPY SECTION DETAIL	A
YUA-FA-5018	TYPICAL SECTION DETAIL	A
YUA-FA-5019	TYPICAL MULLION DETAIL WITH COVER BEADING	A
YUA-FA-5020	CORNER MULLION DETAIL@86° WITH CORNER ALUM.FEATURE	A
YUA-FA-5021	BALUSTRADE SECTION @LEVEL 2	A
YUA-FA-5022	GLASS BALUSTRADE HORIZONTAL DETAIL	A
YUA-FA-5023	BALUSTRADE SECTION @PARAPET LEVEL	A
YUA-FA-5024	TYPICAL SECTION DETAIL	A
YUA-FA-5025	MULLION DETAIL WITH VERTICAL FIN	A
YUA-FA-5026	SECTION DETAIL WITH ALUM.FEATURE	A
YUA-FA-5027	CORNER MULLION DETAIL@95.4° WITH CORNER ALUM.FEATURE	A
YUA-FA-5028	ALUM.FEATURE MULLION DETAIL	A
YUA-FA-5029	SECTION DETAIL @ LEVEL 1 SOFFIT	A
YUA-FA-5030	PARAPET SECTION WITH ALUMINUM FEATURE	A
YUA-FA-5031	SECTION DETAIL WITH ALUM .FEATURE	A
YUA-FA-5032	STECTION DETAIL @PARAPET LEVEL	A
YUA-FA-5033	SECTION DETAIL WITH ALUM. FEATURE	A
YUA-FA-5034	3D VIEW OF SITE WEATHER SEALING WORKS	A
YUA-FA-5035	MULLION DETAIL WITH SIGNAGE	A
YUA-FA-5036	CORNER MULLION DETAIL @85.2 WITH CORNER ALUM.FEATURE	A
YUA-FA-5037	CORNER MULLION DETAIL@90° WITH CORNER ALUM.FEATURE	A
YUA-FA-5038	CORNER HORIZONTAL DETAIL	A
YUA-FA-5039	CORNER HORIZONTAL DETAIL	A
YUA-FA-5040	VERTICAL DETAIL WITH CORNER ALUM.FEATURE	A
YUA-FA-5041	VERTICAL FIN DETAIL	A
YUA-FA-5042	HORIZONTAL DETAIL FOR COLUMN	A
YUA-FA-5043	VERTICAL DETAIL FOR COLUMN	A
YUA-FA-5044	SECTION DETAIL WITH LOUVER	A
YUA-FA-5051	SECTION DETAIL WITH CURTAIN WALL	A
YUA-FA-5052	SECTION DETAIL WITH CURTAIN WALL	A
YUA-FA-5053	HORIZONTAL DETAIL FOR GLASS LOUVER	A
YUA-FA-5054	ALUM. PANEL VERTICAL DETAIL	A
YUA-FA-5055	SECTION DETAIL WITH CANOPY	A
YUA-FA-5056	VERTICAL DETAIL WITH ALUM.FEATURE	A
YUA-FA-5057	VERTICAL DETAIL WITH ALUM.FEATURE	A
YUA-FA-5058	CORNER MULLION DETAIL @87.2 WITH CORNER ALUM.FEATURE	A
YUA-FA-5059	3D CORNER DETAIL	A
YUA-FA-5060	CORNER MULLION DETAIL @96.2 WITH CORNER ALUM.FEATURE	A
YUA-FA-5100	SECTION DETAIL WITH GLASS BALUSTADE	A
YUA-FA-5101	VERTICAL DETAIL WITH ALUM.FEATURE	A
YUA-FA-5102	SECTION DETAIL WITH CURTAIN WALL	A
YUA-FA-5103	SECTION DETAIL WITH CURTAIN WALL	A

YUA-FA-5104	SECTION DETAIL WITH CURTAIN WALL	A
YUA-FA-5105	HORIZONTAL DETAIL FOR CORNER FAÇADE	A
YUA-FA-5106	HORIZONTAL DETAIL FOR CORNER FAÇADE	A
YUA-FA-5107	HORIZONTAL DETAIL FOR CORNER FAÇADE	A
YUA-FA-5108	HORIZONTAL DETAIL FOR CORNER FAÇADE	A
YUA-FA-5109	HORIZONTAL DETAIL FOR SPRING DOOR	A
YUA-FA-5110	VERTICAL DETAIL FOR SPRING DOOR	A
YUA-FA-5111	VERTICAL DETAIL FOR FAÇADE	A
YUA-FA-5112	VERTICAL DETAIL FOR CURTAIN WALL	A
YUA-FA-5113	HORIZONTAL DETAIL FOR CORNER FAÇADE	A
YUA-FA-5114	HORIZONTAL DETAIL FOR CORNER FAÇADE	A
YUA-FA-5115	HORIZONTAL DETAIL FOR CORNER FAÇADE	A
YUA-FA-5116	HORIZONTAL DETAIL FOR CORNER FAÇADE	A
YUA-FA-5117	VERTICAL DETAIL WITH CURTAIN WALL	A
YUA-FA-5118	VERTICAL DETAIL WITH CURTAIN WALL	A
YUA-FA-5119	VERTICAL DETAIL WITH GLASS BALUSTADE	A
YUA-FA-5120	VERTICAL DETAIL WITH GLASS LOUVER	A
YUA-FA-5121	HORIZONTAL DETAIL WITH GLASS LOUVER	A
YUA-FA-5122	HORIZONTAL DETAIL WITH ALUM.FEATURE	A
YUA-FA-5144	TYPICAL MULLION DETAIL WITH FT-LG2 (GLASS LOUVRES)	A
YUA-FA-5145	CORNER MULLION DETAIL@95.3°	A
YUA-FA-5146	CORNER MULLION DETAIL@94.4°	A
YUA-FA-5148	CORNER MULLION DETAIL@85.2° WITH CORNER ALUM.FEATURE	A
YUA-FA-6001	EMBEDMENT LAYOUT-LEVEL 01	02
YUA-FA-6002	EMBEDMENT LAYOUT-U/S LEVEL 01	02
YUA-FA-6003	EMBEDMENT LAYOUT-LEVEL 02	02
YUA-FA-6004	EMBEDMENT LAYOUT-U/S LEVEL 02	02
YUA-FA-6005	EMBEDMENT LAYOUT-LEVEL 03	02
YUA-FA-6006	EMBEDMENT LAYOUT-U/S LEVEL 03	02
YUA-FC-1005	FCCAIDE LAYOUT PLAN-LEVEL 4 (soffit)	A
YUA-FC-1006	FCCAIDE LAYOUT PLAN-LEVEL 4	A
YUA-FC-1007	FCCAIDE LAYOUT PLAN-LEVEL 5	A
YUA-FC-1008	FCCAIDE LAYOUT PLAN-LEVEL 6	A
YUA-FC-1009	FCCAIDE LAYOUT PLAN-LEVEL 7	A
YUA-FC-1010	FCCAIDE LAYOUT PLAN-LEVEL 8	A
YUA-FC-1019	BMU LAYOUT PLAN-LEVEL 5	A
YUA-FC-2007	FCCAIDE ELEVATION NORTH-L4-L8	A
YUA-FC-2008	FCCAIDE ELEVATION EAST-L4-L8	A
YUA-FC-2009	FCCAIDE ELEVATION SOUTH-L4-L8	A
YUA-FC-2010	FCCAIDE ELEVATION WEST-L4-L8	A
YUA-FC-2011	FCCAIDE ELEVATION L4-8 VOID	A
YUA-FC-3014	PARTIAL ELEVATION NORTH - L5-L6	A
YUA-FC-3015	PARTIAL ELEVATION NORTH - L4-L5	A
YUA-FC-3016	PARTIAL ELEVATION EAST - L6-L7	A
YUA-FC-3017	PARTIAL ELEVATION EAST - L6-L7	A
YUA-FC-3018	PARTIAL ELEVATION EAST - L5	A
YUA-FC-3019	PARTIAL ELEVATION SOUTH - L7	A
YUA-FC-3020	PARTIAL ELEVATION WEST - L7	A
YUA-FC-3021	PARTIAL ELEVATION WEST - L5-L6	A
YUA-FC-3022	PARTIAL ELEVATION WEST - L5-L6	A
YUA-FC-4005	NORTH ELEVATION SECTION-L4-L8	A
YUA-FC-4006	EAST ELEVATION SECTION-L4-L8	A
YUA-FC-4007	SOUTH ELEVATION SECTION-L4-L8	A
YUA-FC-4008	WEST ELEVATION SECTION-L4-L8	A

YUA-FC-4009	L4-8 VOID COURTYARD SECTION	A
YUA-FC-4010	L4-8 VOID COURTYARD SECTION	A
YUA-FC-5061	TYPICAL MULLION DETAIL WITH HORIZONTAL FIN	A
YUA-FC-5062	TYPICAL SECTION DETAIL	A
YUA-FC-5063	TYPICAL SECTION DETAIL WITH HORIZONTAL FIN	A
YUA-FC-5064	TYPICAL SECTION DETAIL	A
YUA-FC-5065	TYPICAL SECTION DETAIL	A
YUA-FC-5066	PLAN DETAIL FOR JOIN	A
YUA-FC-5067	CORNER MULLION DETAIL@90° WITH CORNER ALUM.FEATURE	A
YUA-FC-5068	VERTICAL DETAIL WITH CORNER ALUM.FEATURE	A
YUA-FC-5069	CANOPY SECTION DETAIL	A
YUA-FC-5070	TYPICAL SECTION DETAIL	A
YUA-FC-5071	TYPICAL SECTION DETAIL	A
YUA-FC-5072	SLOPED FIN DETAIL	A
YUA-FC-5073	SLOPED FIN 3D VIEWS	A
YUA-FC-5074	TYPICAL SECTION DETAIL	A
YUA-FC-5075	TYPICAL SECTION DETAIL	A
YUA-FC-5076	TYPICAL SECTION DETAIL	A
YUA-FC-5077	CORNER MULLION DETAIL @85.2° WITH CORNER ALUM.FEATURE	A
YUA-FC-5078	TYPICAL SECTION DETAIL	A
YUA-FC-5079	CORNER MULLION DETAIL@96.2° WITH CORNER ALUM.FEATURE	A
YUA-FC-5080	TYPICAL SECTION DETAIL	A
YUA-FC-5081	TYPICAL SECTION DETAIL@CW5	A
YUA-FC-5082	CORNER MULLION DETAIL@88.6° WITH CORNER ALUM.FEATURE	A
YUA-FC-5083	CW5 MULLION DETAIL @ CORRIDOR	A
YUA-FC-5084	MULLION DETAIL @ CORRIDOR	A
YUA-FC-5085	PLAN DETAIL FOR JOIN	A
YUA-FC-5086	L4-8 VOID NORTH WALL SECTION DETAIL	A
YUA-FC-5087	L4-8 VOID SOUTH WALL SECTION DETAIL	A
YUA-FC-5088	L4-8 VOID NORTH WALL SECTION DETAIL	A
YUA-FC-5089	L4-8 VOID SOUTH WALL SECTION DETAIL	A
YUA-FC-5090	L4-8 VOID EAST(WEST) WALL SECTION DETAIL	A
YUA-FC-5091	L4-8 VOID EAST(WEST) WALL SECTION DETAIL	A
YUA-FC-5092	L4-8 VOID EAST(WEST) WALL SECTION DETAIL	A
YUA-FC-5093	L4-8 VOID NORTH WALL SECTION DETAIL	A
YUA-FC-5094	L4-8 VOID SOUTH WALL PLAN DETAIL	A
YUA-FC-5095	L4-8 VOID NORTH WALL PLAN DETAIL	A
YUA-FC-5096	STONE CLADDING CORNER DETAIL	A
YUA-FC-5097	DETAIL FOR CORNER BALUSTRADE	A
YUA-FC-5098	L4-8 VOID WALL SECTION DETAIL	A
YUA-FC-5099	DETAIL FOR BALUSTRADE	A
YUA-FC-5150	TYPICAL DETAIL WITH STUD WALL	A
YUA-FC-5151	MULLION DETAIL WITH BALCONY@ LEVEL 5	A
YUA-FC-5152	TYPICAL SECTION DETAIL WITH PIGTAIL	A
YUA-FA-6007	EMBEDMENT LAYOUT -LEVEL4	02
YUA-FA-6008	EMBEDMENT LAYOUT -U/S LEVEL4	02
YUA-FA-6009	EMBEDMENT LAYOUT -LEVEL5	02
YUA-FA-6010	EMBEDMENT LAYOUT -U/S LEVEL5	02
YUA-FA-6011	EMBEDMENT LAYOUT -LEVEL6	02
YUA-FA-6012	EMBEDMENT LAYOUT -U/S LEVEL6	02
YUA-FA-6013	EMBEDMENT LAYOUT -LEVEL7	02
YUA-FA-6014	EMBEDMENT LAYOUT -U/S LEVEL7	02
YUA-FA-6015	EMBEDMENT LAYOUT -LEVEL8	02
YUA-FA-6016	EMBEDMENT LAYOUT -U/S LEVEL8	02

YUA-FA-6055	EMBEDMENT LAYOUT -LEVEL9	01
YUA-FA-6056	EMBEDMENT LAYOUT -LEVEL9	01
YUA-FA-6057	EMBEDMENT LAYOUT -LEVEL9	01
YUA-FA-6058	EMBEDMENT LAYOUT -LEVEL9	01
YUA-FA-6059	EMBEDMENT LAYOUT -U/S LEVEL 9	01
YUA-FA-6060	EMBEDMENT LAYOUT -U/S LEVEL 9	01
YUA-FA-6061	EMBEDMENT LAYOUT -U/S LEVEL 9	01
YUA-FA-6062	EMBEDMENT LAYOUT -LEVEL10	01
YUA-FA-6063	EMBEDMENT LAYOUT -LEVEL10	01
YUA-FA-6064	EMBEDMENT LAYOUT -LEVEL10	01
YUA-FA-6065	EMBEDMENT LAYOUT -LEVEL10	01
YUA-FA-6066	EMBEDMENT LAYOUT -U/S LEVEL 10	01
YUA-FA-6067	EMBEDMENT LAYOUT -LEVEL11	01
YUA-FA-6068	EMBEDMENT LAYOUT -LEVEL11	01
YUA-FA-6069	EMBEDMENT LAYOUT -LEVEL11	01
YUA-FA-6070	EMBEDMENT LAYOUT -LEVEL11	01
YUA-FA-6071	EMBEDMENT LAYOUT -U/S LEVEL 11	01
YUA-FA-6072	EMBEDMENT LAYOUT -U/S LEVEL 11	01
YUA-FA-6073	EMBEDMENT LAYOUT -LEVEL12	01
YUA-FA-6074	EMBEDMENT LAYOUT -LEVEL12	01
YUA-FA-6075	EMBEDMENT LAYOUT -LEVEL12	01
YUA-FA-6076	EMBEDMENT LAYOUT -LEVEL12	01
YUA-FA-6077	EMBEDMENT LAYOUT -U/S LEVEL 12	01
YUA-FA-6078	EMBEDMENT LAYOUT -U/S LEVEL 12	01
YUA-FA-6079	EMBEDMENT LAYOUT -LEVEL13	01
YUA-FA-6080	EMBEDMENT LAYOUT -LEVEL13	01
YUA-FA-6081	EMBEDMENT LAYOUT -LEVEL13	01
YUA-FA-6082	EMBEDMENT LAYOUT -LEVEL13	01
YUA-FA-6083	EMBEDMENT LAYOUT -U/S LEVEL 13	01
YUA-FA-6084	EMBEDMENT LAYOUT -U/S LEVEL 13	01
YUA-FA-6085	EMBEDMENT LAYOUT -LEVEL14	01
YUA-FA-6086	EMBEDMENT LAYOUT -LEVEL14	01
YUA-FA-6087	EMBEDMENT LAYOUT -LEVEL14	01
YUA-FA-6088	EMBEDMENT LAYOUT -LEVEL14	01
YUA-FA-6089	EMBEDMENT LAYOUT -U/S LEVEL 14	01
YUA-FA-6090	EMBEDMENT LAYOUT -U/S LEVEL 14	01
YUA-FA-1011	FACADE LAYOUT PLAN - LEVEL 9 SOFFIT	A
YUA-FA-1012	FACADE LAYOUT PLAN - LEVEL 9	A
YUA-FA-1013	FACADE LAYOUT PLAN - LEVEL 10	A
YUA-FA-1014	FACADE LAYOUT PLAN - LEVEL 11	A
YUA-FA-1015	FACADE LAYOUT PLAN - LEVEL 12	A
YUA-FA-1016	FACADE LAYOUT PLAN - LEVEL 13	A
YUA-FA-1017	FACADE LAYOUT PLAN - LEVEL 14	A
YUA-FA-1020	BMU LAYOUT PLAN - LEVEL 12	A
YUA-FA-2012	FACADE ELEVATION NORTH - L9-L14	A
YUA-FA-2013	FACADE ELEVATION EAST - L9-L14	A
YUA-FA-2014	FACADE ELEVATION SOUTH - L9-L14	A
YUA-FA-2015	FACADE ELEVATION WEST - L9-L14	A
YUA-FA-2016	BALCONY ELEVATIONS-WINDOW WALL	A
YUA-FA-2017	BALCONY ELEVATIONS-WINDOW WALL	A
YUA-FA-3030	PARTIAL ELEVATION NORTH - L9-L10	A
YUA-FA-3031	PARTIAL ELEVATION WEST - L13-L14	A
YUA-FA-3032	PARTIAL ELEVATION WEST - L10-L11	A
YUA-FA-4012	NORTH ELEVATION SECTION-L9-L14	A

YUA-FA-4013	EAST ELEVATION SECTION-L9-L14	A
YUA-FA-4014	SOUTH ELEVATION SECTION-L9-L14	A
YUA-FA-4015	WEST ELEVATION SECTION-L9-L14	A
YUA-FA-5123	CORNER MULLION DETAIL@78.1° WITH CORNER ALUM.FEATURE	A
YUA-FA-5124	CORNER MULLION DETAIL@85.2° WITH CORNER ALUM.FEATURE	A
YUA-FA-5125	CORNER MULLION DETAIL@96.2° WITH CORNER ALUM.FEATURE	A
YUA-FA-5126	LEVEL 11 DETAIL (CW BALCONY)	A
YUA-FA-5127	TYPICAL SECTION DETAIL	A
YUA-FA-5128	TYPICAL SECTION DETAIL	A
YUA-FA-5129	CORNER MULLION DETAIL@100.5° WITH CORNER ALUM.FEATURE	A
YUA-FA-5173	MULLION DETAIL WITH SIGNAGE	A
YUA-FA-5174	SECTION DETAIL	A
YUA-FA-5175	SECTION DETAIL	A
YUA-FA-5176	TYPICAL MULLION DETAIL	A
YUA-FA-5177	TYPICAL MULLION DETAIL	A
YUA-FA-5178	TYPICAL SECTION DETAIL WITH WB1	A
YUA-FA-5179	TYPICAL SECTION DETAIL WITH WB1	A
YUA-FA-5180	TYPICAL SECTION DETAIL WITH WB1	A
YUA-FA-5181	TYPICAL SECTION DETAIL WITH WB1	A
YUA-FA-5187	TYPICAL SECTION DETAIL	A
YUA-FA-1020	FACADE LAYOUT PLAN -LEVEL G	01
YUA-FA-2019	CURTAIN WALL ELEVATION-L G	01
YUA-FA-3034	PARTIAL ELEVATION SOUTH - L G	01
YUA-FA-3035	PARTIAL ELEVATION SOUTH - L G	01
YUA-FA-3036	PARTIAL ELEVATION EAST - L G	01
YUA-FA-3037	PARTIAL ELEVATION NORTH - L G	01
YUA-FA-4016	ELEVATION SECTION-L G	01
YUA-FA-5153	CURTAIN WALL HORIZONTAL DETAIL @LEVEL G	01
YUA-FA-5154	CURTAIN WALL HORIZONTAL DETAIL @LEVEL G	01
YUA-FA-5155	CURTAIN WALL TYPICAL VERTICAL DETAIL @LEVEL G	01
YUA-FA-5156	CURTAIN WALL TYPICAL VERTICAL DETAIL @LEVEL G	01
YUA-FA-5157	CURTAIN WALL TYPICAL VERTICAL DETAIL @LEVEL G	01
YUA-FA-5158	CURTAIN WALL TYPICAL VERTICAL DETAIL @LEVEL G	01
YUA-FA-5159	CURTAIN WALL HORIZONTAL DETAIL @LEVEL G	01
YUA-FA-5160	CURTAIN WALL HORIZONTAL DETAIL @LEVEL G	01
YUA-FA-5161	CURTAIN WALL HORIZONTAL DETAIL @LEVEL G	01
YUA-FA-5162	CURTAIN WALL TYPICAL VERTICAL DETAIL @LEVEL G	01
YUA-FA-5163	CURTAIN WALL TYPICAL VERTICAL DETAIL @LEVEL G	01
YUA-FA-5164	CURTAIN WALL HORIZONTAL DETAIL @LEVEL G	01
YUA-FA-5165	CURTAIN WALL HORIZONTAL DETAIL @LEVEL G	01
YUA-FA-5166	CURTAIN WALL HORIZONTAL DETAIL @LEVEL G	01
YUA-FA-5167	CURTAIN WALL TYPICAL VERTICAL DETAIL @LEVEL G	01
YUA-FA-5168	CURTAIN WALL TYPICAL VERTICAL DETAIL @LEVEL G	01
YUA-FA-5169	CURTAIN WALL TYPICAL VERTICAL DETAIL @LEVEL G	01
YUA-FA-5170	CURTAIN WALL HORIZONTAL DETAIL @LEVEL G	01
YUA-FA-5171	CURTAIN WALL HORIZONTAL DETAIL @LEVEL G	01
YUA-FA-5172	CURTAIN WALL TYPICAL VERTICAL DETAIL @LEVEL G	01
YUA-FA-1018	WINDOW WALL LAYOUT TERRACE PLAN - LEVEL 3	01
YUA-FA-2018	WINDOW WALL ELEVATION - L3	01
YUA-FA-3027	PARTIAL ELEVATION SOUTH - L3	01
YUA-FA-3028	PARTIAL ELEVATION WEST - L3	01
YUA-FA-3029	PARTIAL ELEVATION WEST - L3	01
YUA-FA-5134	WINDOW WALL HORIZONTAL CORNER DETAIL @LEVEL3	01
YUA-FA-5135	WINDOW WALL TYPICAL VERTICAL DETAIL @LEVEL3	01

YUA-FA-5136	WINDOW WALL TYPICAL VERTICAL DETAIL @LEVEL3	01
YUA-FA-5137	SINGLE SPRING DOOR HORIZONTAL DETAIL @LEVEL3	01
YUA-FA-5138	SINGLE SPRING DOOR HORIZONTAL DETAIL @LEVEL3	01
YUA-FA-5139	WINDOW WALL TYPICAL VERTICAL DETAIL @LEVEL3	01
YUA-FA-5140	SINGLE SPRING DOOR VERTICAL DETAIL @LEVEL3	01
YUA-FA-5141	WINDOW WALL TYPICAL VERTICAL DETAIL @LEVEL3	01
YUA-FA-5142	WINDOW WALL TYPICAL VERTICAL DETAIL @LEVEL3	01
YUA-FA-1021	FACADE LAYOUT PLAN - LEVEL 8	01
YUA-FA-1022	FACADE LAYOUT PLAN - LEVEL 14	01
YUA-FA-2020	FACADE PARTIAL ELEVATION L8	01
YUA-FA-2021	FACADE PARTIAL ELEVATION L8	01
YUA-FA-2022	FACADE PARTIAL ELEVATION L8	01
YUA-FA-2023	FACADE ELEVATION - L14	01
YUA-FA-3038	PARTIAL ELEVATION NORTH - L14	01
YUA-FA-3039	PARTIAL ELEVATION NORTH - L14	01
YUA-FA-3040	PARTIAL ELEVATION NORTH - L14	01
YUA-FA-4017	ELEVATION SECTION	01
YUA-FA-4018	ELEVATION SECTION	01
YUA-FA-4019	ELEVATION SECTION L-14	01
YUA-FA-5182	TYPICAL MULLION DETAIL	01
YUA-FA-5183	TYPICAL MULLION DETAIL	01
YUA-FA-5184	WINDOW WALL VERTICAL DETAIL @LEVEL14	01
YUA-FA-5185	WINDOW WALL VERTICAL DETAIL @LEVEL14	01

Additionally, this certification provides a test report, undertaken in accordance with AS4248, as evidence of compliance with clause FP1.4 of NCC 2019, Volume 1 Amendment 1, for the following façade elements provided by Yuanda Australia:

- FT-CW1 - Unitised Glazed Curtain Wall with expressed glazing capture
- FT-CW2 - Unitised Glazed Curtain Wall with Horizontal sunshades
- FT-CW3 - Unitised Glazed Curtain Wall with Vertical sunshades
- FT-CW4 - Unitised Curtain Wall with Diagonal sunshades
- FT-CW5 - Unitised Curtain Wall Zones with framed box surround.

Specifically, the Yuanda unitised curtain wall and cladding for the Project complies with NCC2019, Volume 1, Amendment 1, Clause FP1.4 - Roofs and external walls. Assessment method - Expert Judgement A0.5(c), Evidence of suitability A2.2 a (ii) (iii) (vi).

The BeTcs Asia-Pacific - Report number BAP-IRCW-011, (BeTcs Asia-Pacific job number BAP-ICW-022-0621), *Inspection of structural, air infiltration & water penetration testing to AS/NZS 4284:2008 on the prototype PMU1 & PMU2 curtain walls for the Western Sydney University, Bankstown City Campus Project*, dated 27 July 2021, has been provided to demonstrate compliance of the unitised curtain wall facades with NCC 2019, Volume 1, Amendment 1, clause FP1.4 and is attached to the certificate.

Please contact me if anything further is required.

Regards

Angus Johnson BE(Hons), MIEAust (753803), CPEng, for and on behalf of Yuanda Australia.