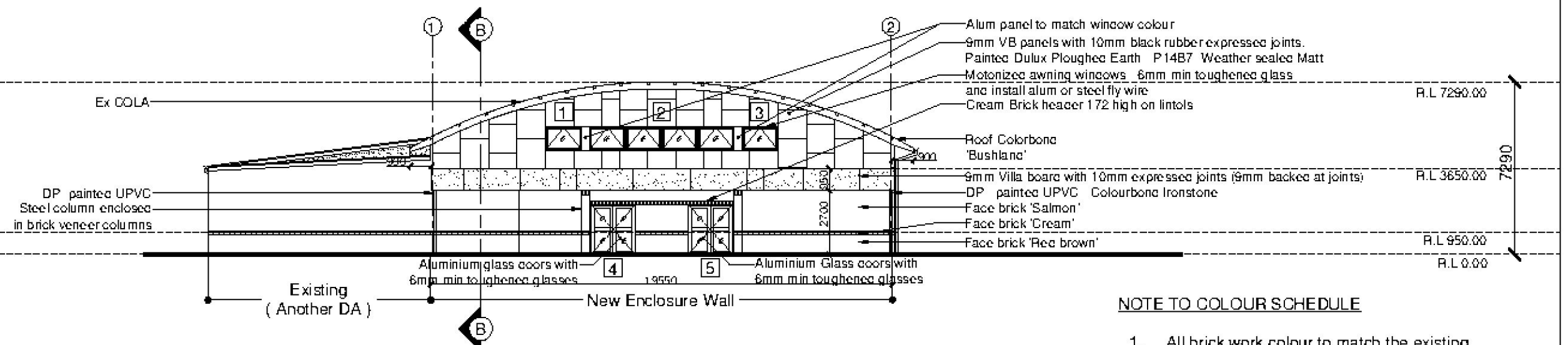


EXISTING NORTH WEST ELEVATION

1:200 @ A3

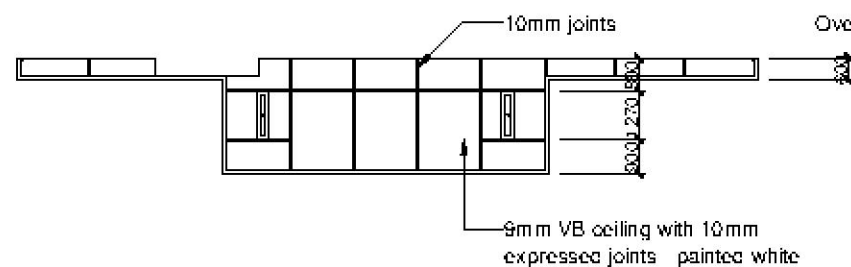


SOUTH EAST ELEVATION

1:200 @ A3

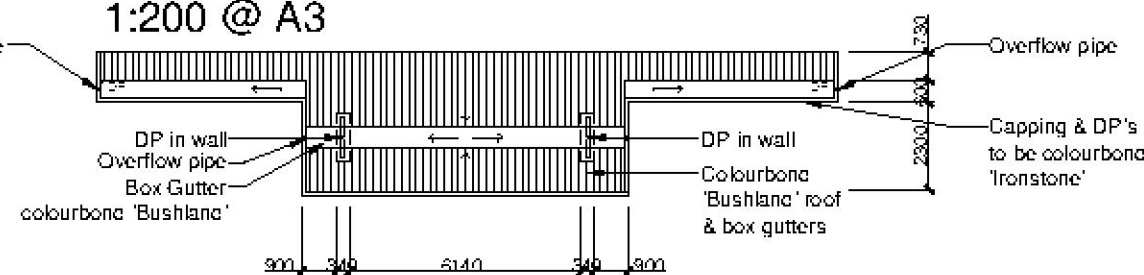
NOTE TO COLOUR SCHEDULE

1. All brick work colour to match the existing permanent buildings on campus.
2. See color notes on elevations to locate where colors and brickworks apply.
3. Windows to be powdercoated "Ironstone".
4. Gutters DP's and trim to be "Colourbond Ironstone".
5. Door frames to be painted to match "Colourbond Ironstone".
6. Doors to be painted "Dulux 'Totem Pole' P08D8 Semi Gloss".
7. Colourbond colours of external walls are noted on the plans.
8. Entry fascia to be painted "Dulux 'Bogart' P14B5 Weathershield Matt".
9. Visible hoop pine to be finished clear to match light colour of paneling on West wall.



REFLECTED CEILING OF ENTRY CANOPY

1:200 @ A3



ROOF PLAN OF ENTRY CANOPY

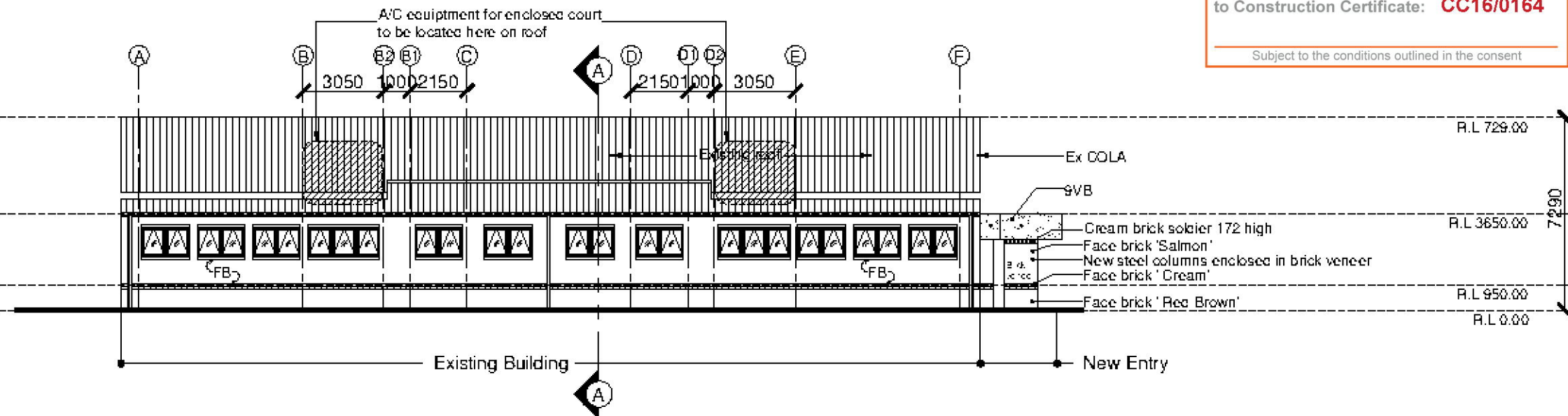
1:200 @ A3

LEGEND

- 1 Window / Glass door numbers

ENCLOSURE OF EXISTING COLA FOR INDOOR COURT ELEVATIONS AND COLOUR SCHEDULE

CC SET - ELEVATIONS AND COLOUR SCHEDULE		
Wollemi College - LOT 2. DP 1176624 Enclosure Of Existing COLA For Indoor Court Gipps Street. Werrington 2747. NSW		
CARROLL AND CARROLL ARCHITECTS 238 GIPPS STREET WERRINGTON NSW 2747	Date: 28 June 2016	4

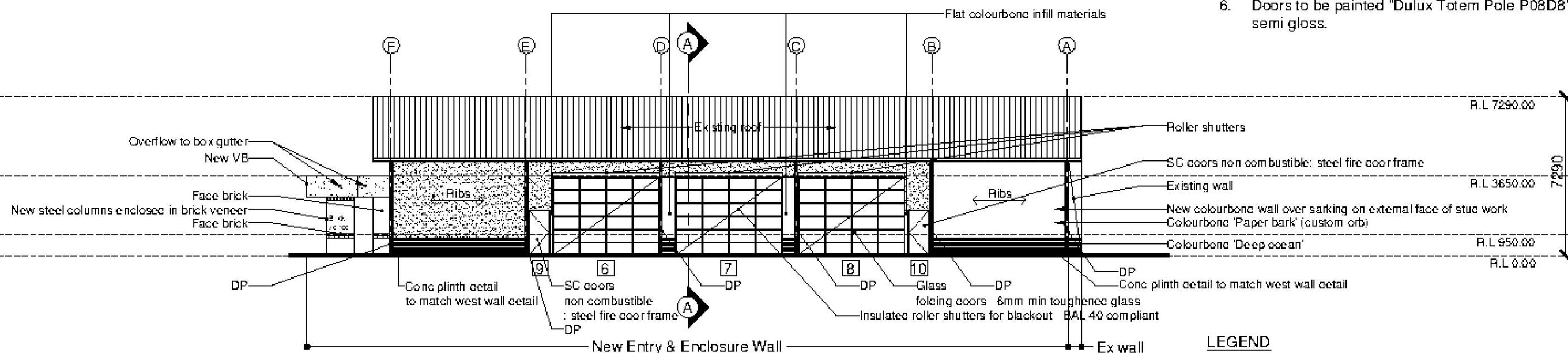


SOUTH WEST ELEVATION

1:200 @ A3

NOTE TO COLOUR SCHEDULE

1. All brick work colour to match the existing permanent buildings on campus.
2. See color notes on elevations to locate where colors and brickworks apply.
3. Windows to be powdercoated "Ironstone".
4. Gutters DPs and trim to be "Colourbond Ironstone".
5. Door frames to be painted to match "Colourbond Ironstone".
6. Doors to be painted "Dulux Totem Pole P08D8" semi gloss.



NORTH EAST ELEVATION

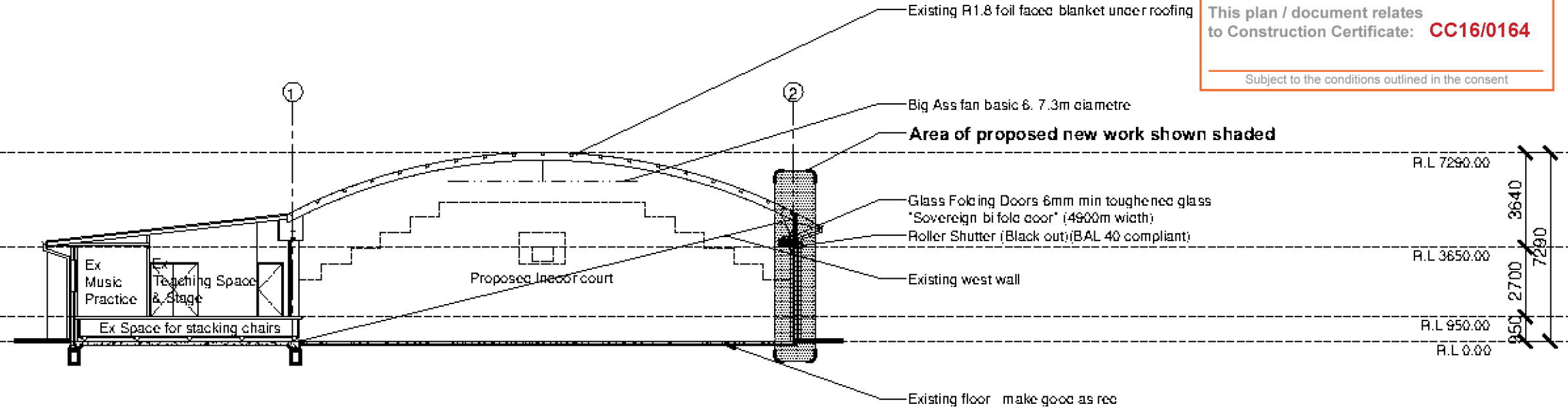
1:200 @ A3

LEGEND

- 1 Window / Glass door numbers

ENCLOSURE OF EXISTING COLA FOR INDOOR COURT ELEVATIONS AND COLOUR SCHEDULE

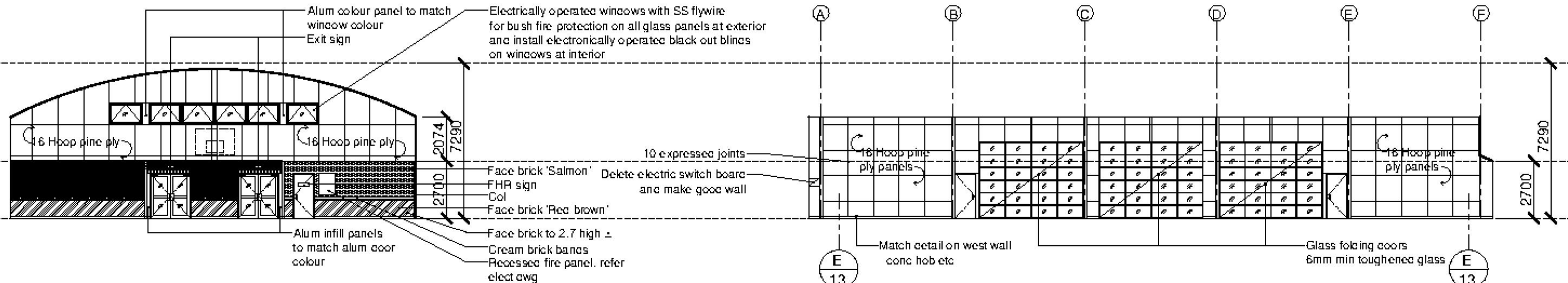
CC SET - ELEVATIONS AND COLOUR SCHEDULE		
Wollemi College - LOT 2. DP 1176624		
Enclosure Of Existing COLA For Indoor Court		
Gipps Street. Werrington 2747. NSW		
CARROLL AND CARROLL ARCHITECTS 238 GIPPS STREET W. WERRINGTON NSW 2747 Tel: 02 9567 1045	Date: 28 June 2016	5



SECTION AA
1:200 @ A3

NOTE

1. Face brick to match the brickwork colours used on existing permanent buildings.

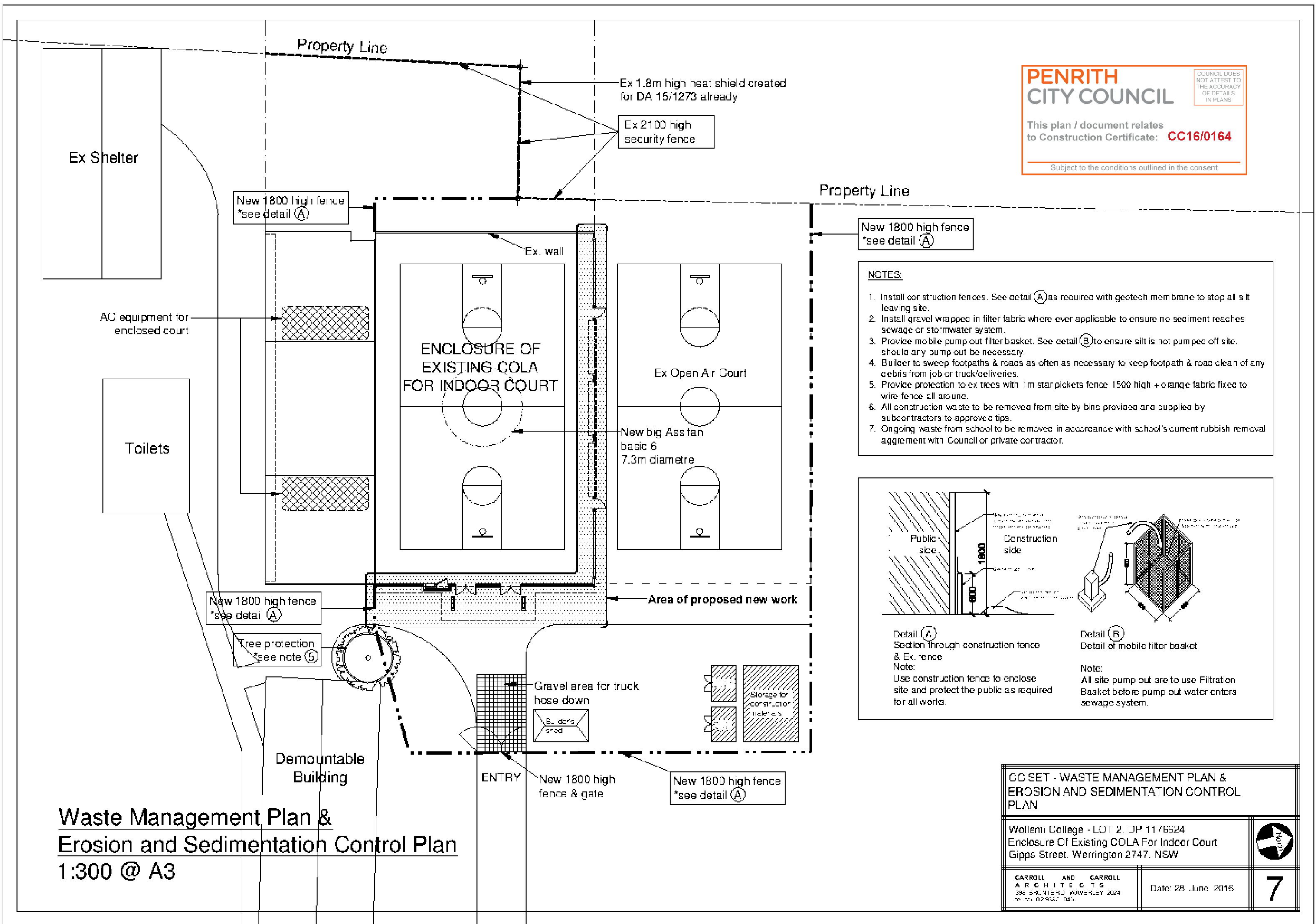


INTERNAL ELEVATION OF SOUTH EAST
1:200 @ A3

INTERNAL ELEVATION OF NORTH EAST
1:200 @ A3

ENCLOSURE OF EXISTING COLA FOR INDOOR COURT
SECTIONS & INTERNAL ELEVATIONS

CC SET - SECTIONS		
Wollemi College - LOT 2. DP 1176624 Enclosure Of Existing COLA For Indoor Court Gipps Street. Werrington 2747. NSW		
CARROLL AND CARROLL ARCHITECTS 238 GLENVIEW RD WARRINGTON NSW 2747 Tel: 02 9567 1045	Date: 28 June 2016	6



PRELIMINARIES & GENERAL

- 1. Builder shall check & verify on site, all dimensions before proceeding or ordering any materials.
- 2. Builder to provide & pay for all necessary tools, equipment and temporary services unless agreed otherwise with owner.
- 3. Builder to co-ordinate all of the work and sub-trades and specialist sub-contractors required to complete the job.
- 4. Builder to clean the site regularly and on completion thoroughly clean new works inside & out (windows included) and remove all rubbish from site.
- 5. Builder to be responsible for a structurally sound & watertight job.
- 6. Builder to contact architect should unforeseen circumstances occur & for any required clarifications.
- 7. Building to comply with all condition of DA 16/0148 and Construction Certificate & to comply with the Building Code of Australia (BCA) and all relevant Australian standards.
- 8. Builder to make good at his own expense any damage resulting, from demolition & /or construction, to the existing structure or new work.
- 9. Builder is generally to make good to all new and existing finishes and materials and junctions thereof to match existing.
- 10. Refer to structural and other architect's drawings for additional specification notes.
- 11. Fire precaution during construction to comply with BCA E1.9.
- 12. Builder to comply with all condition of letter dated 21 April 2016 from the NSW Rural fire service. REF No. D16/ 0578
- 13. Builder to comply with DA condition 7 & 12 in relation to dust suppression and noise level allowed.
- 14. Builder to comply with soil & water management plan & waste disposal conditions outlined in the DA.
- 15. Builder to maintain copies of the stamped council approval plans on site & all DA approval documents.
- 16. Builder to erect two site signs on site as outlined in DA condition 17.

STEELWORK & METALWORK

- 1. Refer to structural drawings and structural specifications.
- 2. Builder to supply & install steel structural members: dimensions and construction details as specified by structural engineer.
- 3. Builder to supply & fit all metalwork and fittings required to complete works ie. column shoes, ties, brackets, angles, hinges, locks, straps, screws, bolts, nails etc. All external items to be hot dip galvanised.
- 4. Builder shall install all flashings necessary to ensure a watertight job.
Flashing not seen to be Alcore.
Exposed flashings to be 0.7mm zinc minimum or colorbond bent to required shape.
(Match colour of adj materials or as noted)
- 5. Interlock, lap & silicon seal joints on all flashings.
- 6. Aluminium window joinery to be Dulux Powdercoated "Ironstone".
- 7. "Black out" roller shutters will be supplied and installed by the builder where shown on the drawing - colourbond finish.
- 10.All windows & doors to comply with 'Section J' : Glazing calculation and comply with AS 2047 - requirements for resistance to water penetration and comply with BCA F1.13 - glazed assemblies.
- 11.Folding glass doors to be "Sovereign bi fold doors" - powder coated charcoal.

PENRITH
CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

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Subject to the conditions outlined in the consent

EXCAVATION AND BACKFILLING

- 1. Builder to carry out all necessary excavation and backfilling, as required to complete the works.
- 2. Backfilling to be carried out as per engineer's instructions.
- 3. All retaining walls and drainage behind them to be to engineer's details.
- 4. All new work to be termite protected to AS 3660 via "KORDON" membrane or approved equal under all new conc. slabs
Use ant caps under flooring where exposed.
- 5. Make good all finishes walls, floors & ceilings where walls, floors or ceilings are demolished, all generally to match the existing details.
- 6. Waterproof the near face of all retaining walls with bitumen based waterproofing.
- 7. Install agriculture lines,etc. as detailed by the civil engineers.

BRICKWORK & MASONRY

- 1. Refer to structural drawings & specifications.
- 2. Lintels. All lintels to be hot dip galvanised and painted before installation - All major lintels – beams to engineers req..

Maximum Span	Lintel Size
1200	75 x 8 flat
1500	75 x 75 x 8 angle
1880	102 x 76 x 8 angle
2440	127 x 76 x 8 angle
2770	152 x 89 x 8 angle
3050	152 x 102 x 10 angle
- 3. Bricks. Construct new brickwork as shown on architectural drawings - All brickworks to be rendered except garage interior.
- 4. Build in brick joints and control joints as necessary.
- 5. Mortar to be 1:1:6 cement, lime, sand above DPC and 1:1:4 below DPC.
- 6. Install DPC, ties, fixings, lugs, straps, brackets, flashings etc as required to complete the job. Flashings to be 1 mm zinc & all fillings to be hot dip galvanised.
- 7. Rake out joints as required to take cement render.
- 8. All non exposed brickwork or brickwork to be rendered over is to be selected common.
- 9. All brick cavity walls make 300 wide wall with 40mm kooltherm cavity board insulation and 40mm min cavity, to comply with thermal insulation requirements.

CC SET - SPECIFICATION		
Wollemi College - LOT 2, DP 1176624 Enclosure Of Existing COLA For Indoor Court Gipps Street, Werrington 2747, NSW		
CARROLL AND CARROLL ARCHITECTS 938 BENTLEY RD WERRINGTON NSW 2747 Tel: 02 9387 1045	DATE: 28 June 2016	8

SITEWORKS & LANDSCAPING

- 1. Builder to protect all existing plants & to save topsoil from all excavated areas for reuse as required.
- 2. All waste materials are to be removed from site upon completion of the job and the job site is to be suitably cleaned.
- 3. Remove & properly dispose of all construction debris from site.
- 4. Repair paving as required to match the existing.
- 6. Paver at entry to be reworked as required by the new work.
- 7. No trees are to be removed as a result of this project.
- 8. Builder to replace all damaged lawns with new turf as required and water in. All new landscaping shall comply with the principles of appendix 5 of "Planning for Bushfire Protection 2006"
- 9. Re: NSW Rural Fire Service's report all areas around the site shall be maintained as mowed lawns to keep them compliant with the principle of an IPA (Inner Protection Area) - and no combustible material shall be stored to west of the proposed building.
- 10. The existing site evacuation route which currently complies with section 4.2.7 of 'Planning for Bush Fire Protection 2006' is shown dwg no 1.

FORMWORK & CONCRETE

- 1. Builder to carry out all work shown on architectural & structural drawings. Refer to structural drawings for additional specification items.
- 2. All formwork shall be straight & true to required sizes
- 3. Concrete to be 1:2:4 or as shown on engineer's drawings.
- 4. All concrete exposed to view shall have bevel edges and shall be filled and worked smooth and prepared for painting.
- 5. All slab dimensions and reinforcing to engineer's details.
- 6. Concrete beams, strip & pad footings to engineer's details.
- 7. Builder to tank all walls below grade before pouring slabs and backfilling behind retaining walls.

CARPENTRY & JOINERY

- 1. All timber wall framing shall be in accordance with the light timber framing code / AS 1684 - use termite treated timber throughout. Provide blocking, etc as required to complete works.
- 2. All internal timberwork to be WRC or pressure treated pine, for paint finished or as directed. Timber beams & cols to be hardwood.
- 3. Doors / Gates: exit doors on north wall to be solid core doors(external grade) for paint finish - provide latches to BCA D2.21. All doors to have latches/ handles to comply with BCA D 2.21. - Doors to be non combustible. (clad external face with 1mm galv steel & paint, if necessary.)
- 4. Windows & External class doors: New doors & windows to be 6mm toughen glass, (minimum) Colorbond Aluminium windows & frames and comply with Section J. - All windows to have steel or aluminium flywire to comply with rural fire service requirements.
- 5. Hardware: Hinges for new doors to be 100mm aluminium - stainless satin steel (SSS) finish. All doors to have ss & black rubber door stops and/ or cabin hooks as required. All external glass & timber doors to have lever hardware and locks of the type required to suite the situation SCP plated. Doors to be dead locked at exterior and lever hardware at interior, which will always be open.
- 6. Other Internal Joinery Architraves are generally to match existing. Skirting to be satin aluminium 100 high.
- 7. Signage: Braille and tactile signage must identify each door required to have an exit sign & state "Exit" in accordance with BCA 2013, D3.6.

PENRITH
CITY COUNCIL

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

This plan / document relates to Construction Certificate: **CC16/0164**

Subject to the conditions outlined in the consent

CC SET - SPECIFICATION		
Wollemi College - LOT 2, DP 1176624 Enclosure Of Existing COLA For Indoor Court Gipps Street, Werrington 2747, NSW		
CARROLL AND CARROLL ARCHITECTS 9/98 BAKERIE RD WERRINGTON NSW 2747 Tel: 02 9387 1045	DATE: 28 June 2016	9

<div>ROOFER, ROOF PLUMBING & SKYLIGHTS</div> <div><div>1. Entry roof to be Colourbond Custom Orb "Bushland".</div><div>2. Gutters and Box Gutters & capping to entry canopy upstand to be Colorbond "Ironstone".</div><div>3. Insulate roof to entry canopy using 1.8 foil faced blanket.</div></div>	<div>FLOOR FINISHES</div> <div><div><div>1. All materials shall be installed to the highest standards, best of workmanship & with the proper preparation.</div><div>2. Install pavers where shown on the drawings to match existing pavers on site. Rework existing pavers as required.</div><div>3. Make good to concrete slabs & other flooring finishes disturbed by the works to as new condition.</div></div><div><div><div><div>PENRITH</div><div>CITY COUNCIL</div></div><div><div>COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS</div></div><div><div>This plan / document relates to Construction Certificate: CC16/0164</div></div><div><div>Subject to the conditions outlined in the consent</div></div></div></div></div>									
<div>HYDRAULICS & MECHANICAL WORK</div> <div><div>1. All new plumbing pipes, vents etc. to be enclosed in a satisfactory manner. No pipe work to be run down external wall.</div><div>2. All hydraulic work shall be in accordance with the requirements of the MWs & DB. Water supply to be in copper pipe, drainage & sewerage to be in approved UPVC pipe - all to code requirements.</div><div>3. All new & reworked pipe work is to be concealed.</div><div>4. Allow to take out existing plumbing and drainage fittings no longer required by the new walls and floor.</div><div>5. Install drainage as required to drain the works. Connect all drains to ex SW system.</div><div>6. All hydraulics work to be in accordance with the consultant engineers drawings and specifications.</div><div>7. All water & electricity shall comply with section 4.1.3 and 4.2.7 of "planning for bushfire protection 2006".</div></div>	<div>GLAZIER & BUILDING SEALING</div> <div><div><div>1. All glazing shall be in accordance with the appropriate A.S.A. codes, AS 1288, BCA, SAA & Glass Insulation Code.</div><div>2. All windows to be 6mm clear toughened glass "minimum" and as required to comply with section J & all code requirements. (All glass must be safety glass in schools.)</div><div>3. Windows and doors to be sealed to comply with BCA J3.1 and AS 2047 seals to be fitted to the edge of external doors. Door closers to be fitted to all external doors.</div><div>4. Roof, ceiling, walls and floors need to be sealed to minimise air leakage to comply with J3.6.</div><div>5. All windows, fixed or operable to have alum or steel flyscreens.</div></div></div>									
<div>GAS</div> <div><div>1. No gas required for this project.</div><div>Not Used</div></div>	<div><table><tr><td colspan="3">CC SET - SPECIFICATION</td></tr><tr><td colspan="2">Wollemi College - LOT 2, DP 1176624 Enclosure Of Existing COLA For Indoor Court Gipps Street, Werrington 2747, NSW</td><td></td></tr><tr><td>CARROLL AND CARROLL ARCHITECTS 938 542111 x 40 WWW.LAY 2024 10/10/2024 9:58/1045</td><td>DATE: 28 June 2016</td><td>10</td></tr></table></div>	CC SET - SPECIFICATION			Wollemi College - LOT 2, DP 1176624 Enclosure Of Existing COLA For Indoor Court Gipps Street, Werrington 2747, NSW			CARROLL AND CARROLL ARCHITECTS 938 542111 x 40 WWW.LAY 2024 10/10/2024 9:58/1045	DATE: 28 June 2016	10
CC SET - SPECIFICATION										
Wollemi College - LOT 2, DP 1176624 Enclosure Of Existing COLA For Indoor Court Gipps Street, Werrington 2747, NSW										
CARROLL AND CARROLL ARCHITECTS 938 542111 x 40 WWW.LAY 2024 10/10/2024 9:58/1045	DATE: 28 June 2016	10								

ELECTRICAL

- 1. All electrical work shall be in strict and complete compliance with the all authorities requirements.
Builder to provide all labour & materials to complete the works.
- 2. All wiring to comply with relevant SAA standards and codes.
- 3. All wiring to be concealed.
- 4. Mark all locations of lights, switches and general power outlets for owner's approval of location before proceeding.
- 5. All switches, lighting etc shall be by builder & in accordance with the electrical plan.
- 6. Builder to install new safety switches to all circuits to code/council's requirements.
- 7. Connect power and provide switches / handsets to electric blinds, roller shutters and awning windows.
- 8. Builder to protect all existing security system. Owner shall arrange & pay for any relocation necessary or expansion of the system if they so choose - builder to co-operate & support this sub-trade as required to complete the system.
- 9. Provide & install all necessary exit signs, emergency lighting, smoke alarm etc. as required by the codes.
- 10.Refer to electrical consultant's drawing & specification.

PAINTER

- 1. All painting to be carried out in accordance with manufacturer's directions for the type of paint being used.
Allow for good preparation.
- 2. Use drop sheets, masking tape etc. to protect furnishings and finishes. Upon completion clean off all paint splatter.
- 3. Allow four (4) weeks for architect or owner to provide a colour schedule.
- 4. Clean all paint off floor and where spilled and remove all empty containers from site.
- 5. All timber work to be painted with undercoat and two finishing coats in low sheen, wash - wear acrylic paint.
- 6. All exterior walls to be prepared and waterproofed & sealed with one coat and 2 coats of acrylic paint finish.
- 7. All new work to be painted up to a logical cut-off point to produce a first class job internally & externally.
- 8. Match existing colour on the block walls.

PENRITH
CITY COUNCIL

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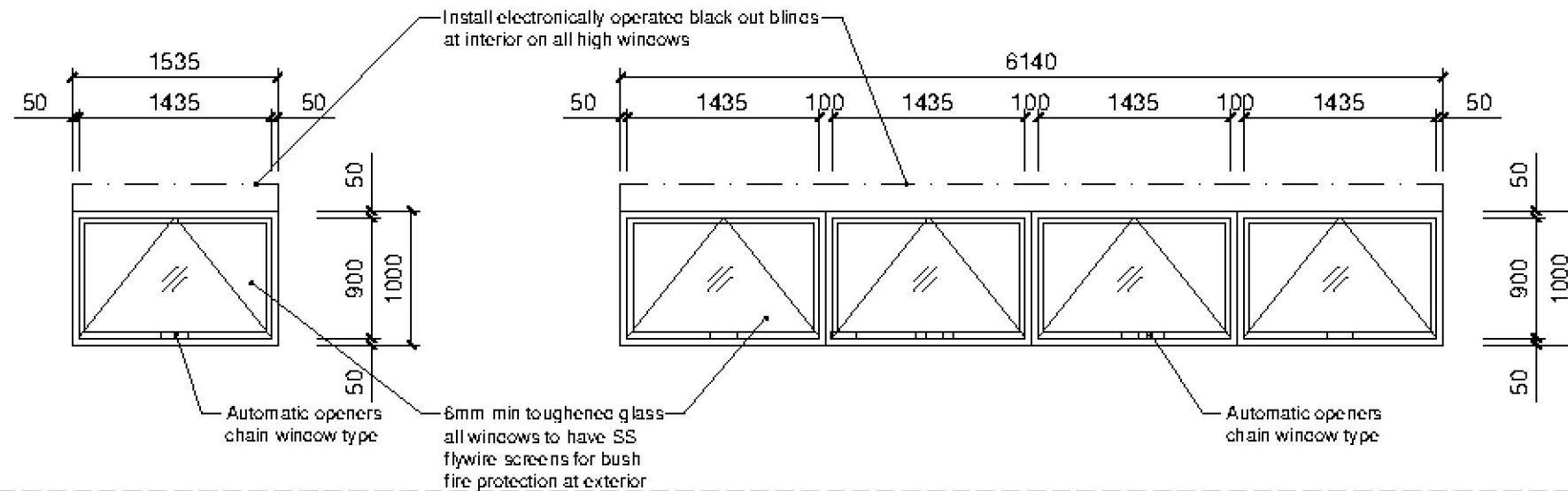
WALL & CEILING FINISHES

- 1. All materials shall be installed in accordance with the best of workmanship, preparation and materials to the architect's approval.
- 2. North East external wall : The lower section to be Colorbond "Deep Ocean" and the upper wall to be Colorbond "Paperbark".
- 3. South East external wall : The lower section to be face brick " Red Brown, the upper section to be "face brick " Salmon" and the band between the lower section and upper section to be face brick " Cream".
- 4. Make good to brick walls as required to match existing.
- 5. In all areas where making good, match existing surfaces & finishes.
- 6. Make good existing wall finishes where damaged by construction. Match existing finishes.
- 7. All wall and ceiling linings and floor material and floor coverings to have fire rating and properties that comply with C 1.10.
- 9. All walls, ceilings to be insulated to section 'J' requirements.
All perimeter walls – R – 2.8 of new work.
All ceilings – R – 3.2 upwards.
External entry ceiling to be insulated with R 1.8 foil faced blanket only.
- 10. Hang new ceiling framing from purlins to hide roof bracing & clad with (pinhole) colourbond (white)cladding over R 2.5 blanket insulation (for thermal & acoustic reasons).
- 11. Soffit to entry canopy to be 9mm villaboard with 10mm expressed joints. 10mm wide & black rubber backing to joints.

MISCELLANEOUS, SPECIAL & P.C ITEMS

- 1. Refer to drawings for additional specification notes.
- 2. Builder to allow for all items to complete job.
- 3. Builder to retain certificates of completion, council, etc; all guarantees for work, appliances & equipment; and maintenance instructions and is to handover to owners upon completion.
- 4. Builder to provide 2 frames A4 with robust acrylic covers on existing door of electrical cupboard and display a copy of both the current annual fire safety schedule certificate and fire safety certificate.

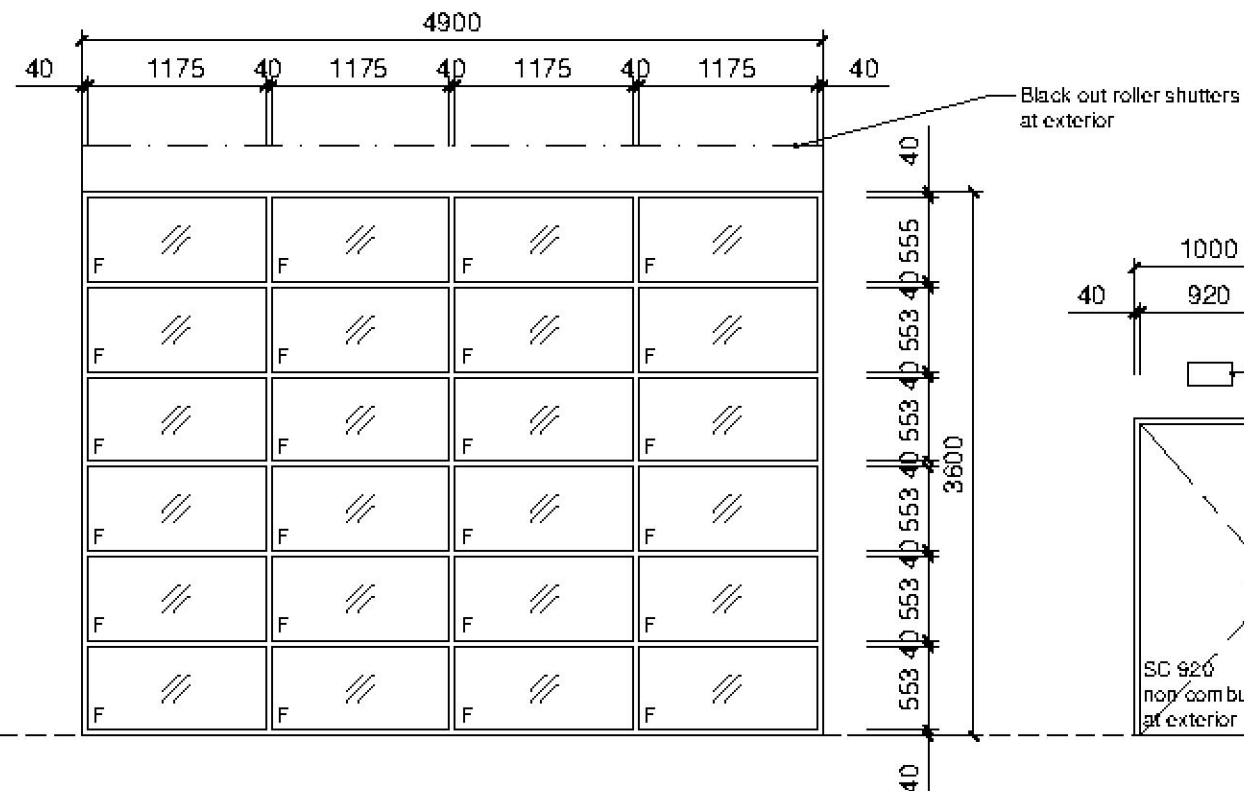
CC SET - SPECIFICATION		
Wollemi College - LOT 2, DP 1176624 Enclosure Of Existing COLA For Indoor Court Gipps Street, Werrington 2747, NSW		
CARROLL AND CARROLL ARCHITECTS 998-999/111-112 WOLLEMI COLLEGE 2024 10/10/2024 9:58/1045	DATE: 28 June 2016	11



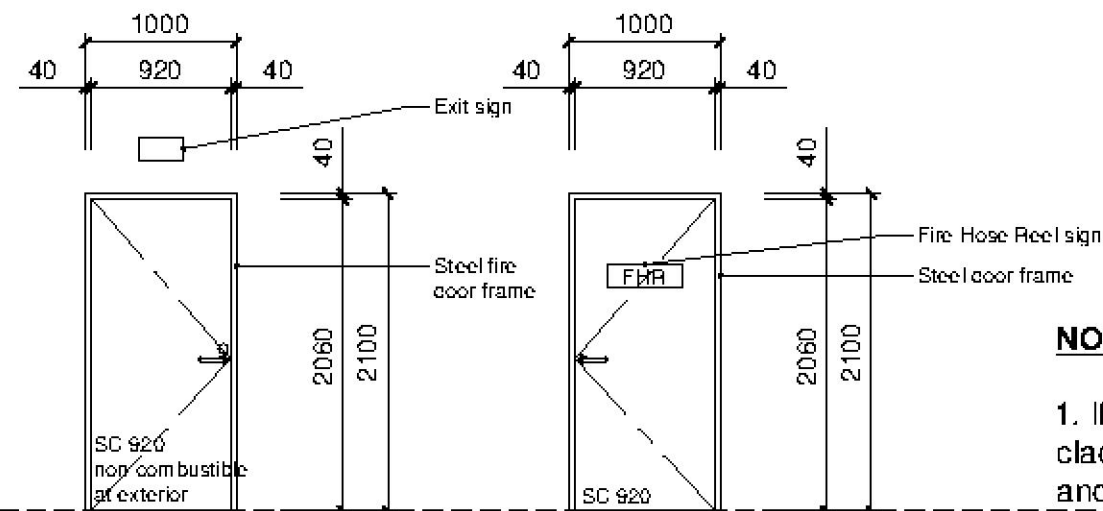
1 3 On South East Elevation
(Aluminium windows)

2 On South East Elevation (Aluminium windows)

NOTE: Windows 1, 2 & 3 to have flyscreens of alum or steel at exterior on all opening and fixed panels for bushfire protection.

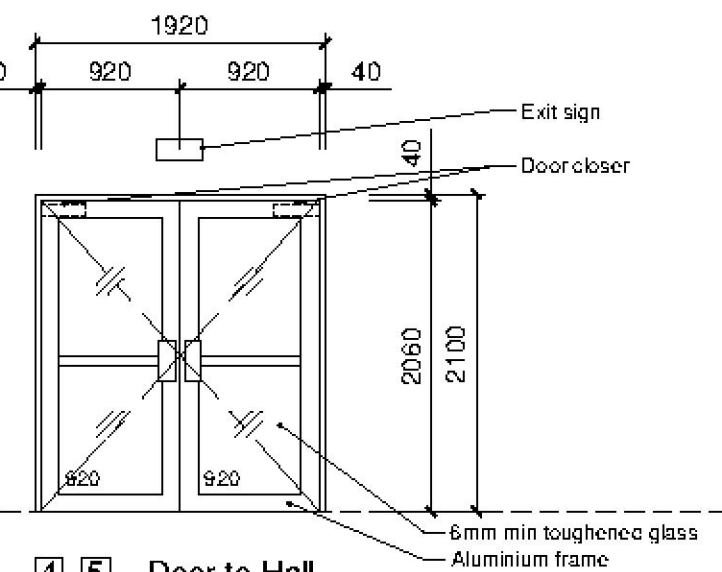


6 7 8 Glass Folding Doors (Sovereign bi fold door, 4900 width)
- Refer section on DWG 3 & specification.



9 10

11



4 5 Door to Hall

PENRITH CITY COUNCIL

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NOTES:

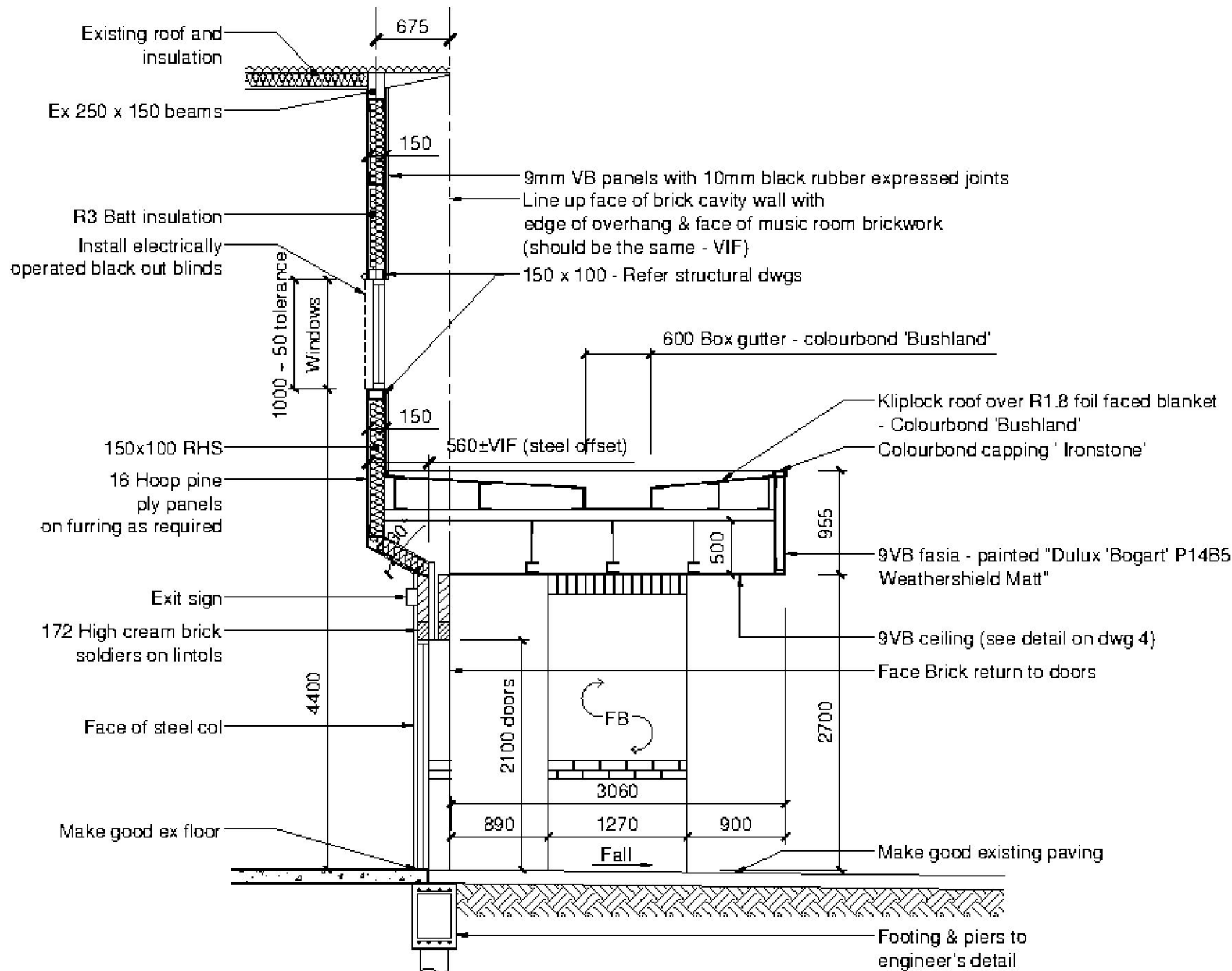
1. If non combustible SC door is not available, clad in 1mm galvanised steel at exterior and paint.
2. All glazing to be safety glass and as required to comply with section 'J' of the BCA.

ENCLOSURE OF EXISTING COLA FOR INDOOR COURT

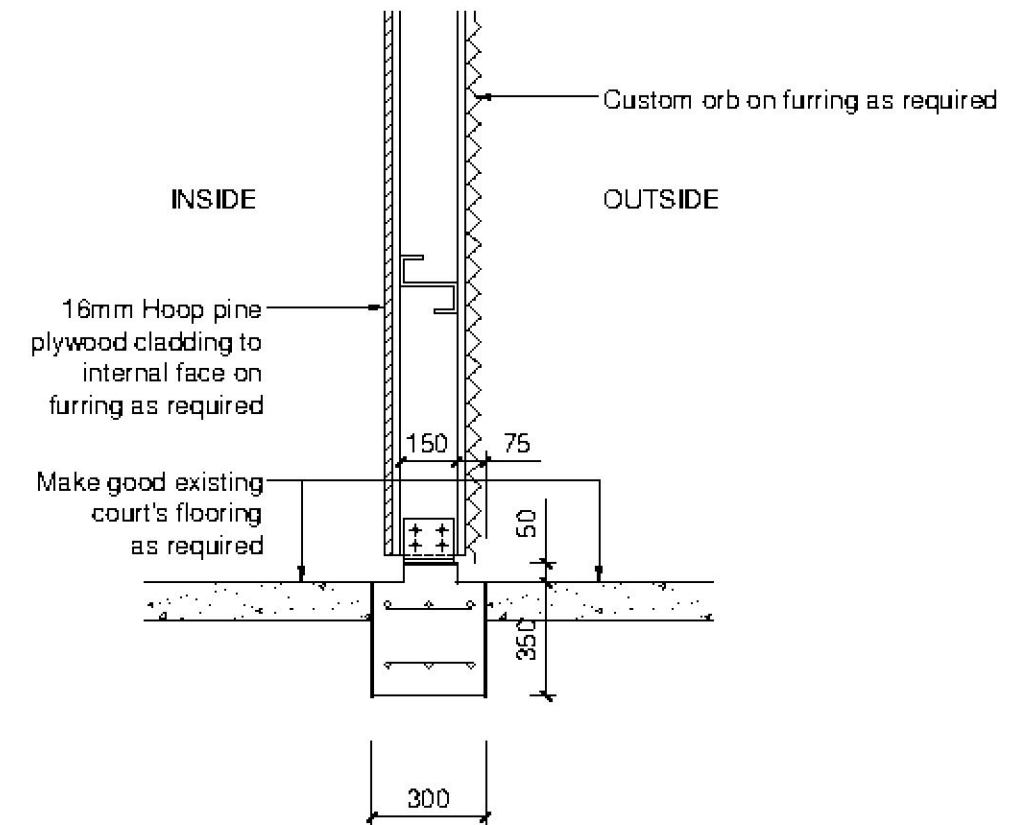
WINDOW & DOOR SCHEDULE

1:50 @ A3

CC SET - WINDOW AND DOOR SCHEDULE	
Wollemi College - LOT 2. DP 1176624 Enclosure Of Existing COLA For Indoor Court Gipps Street. Werrington 2747. NSW	
CARROLL AND CARROLL ARCHITECTS 238 GLENVIEW RD WARRINGTON NSW 2247 Tel: 02 9567 1045	Date: 28 June 2016



D
3 CONSTRUCTION OF SOUTH EAST WALL
1:50 @ A3



E
6 CONSTRUCTION OF NORTH EAST WALL
1:20 @ A3

ENCLOSURE OF EXISTING COLA FOR INDOOR COURT DETAILS

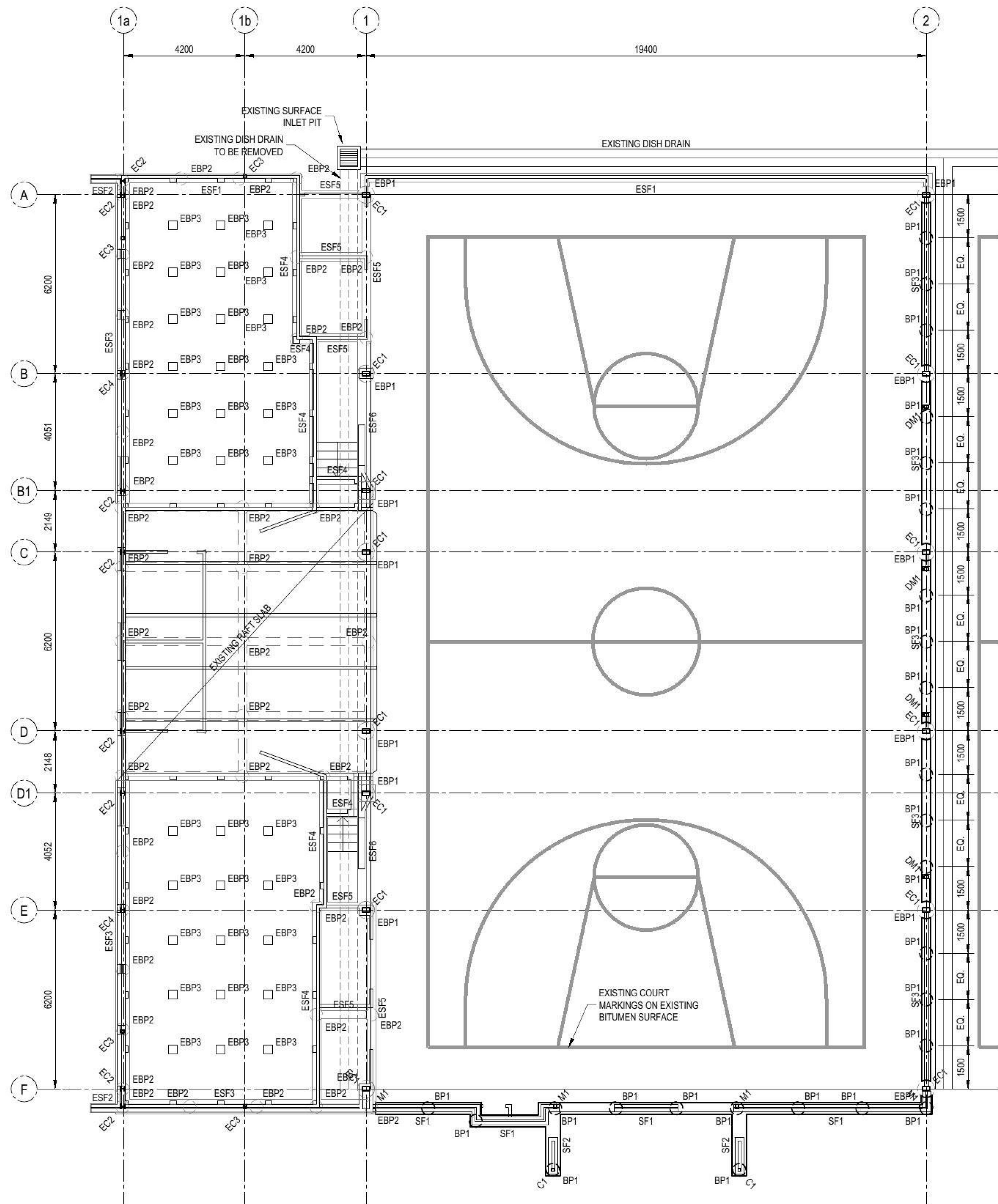
CC SET - WINDOW AND DOOR SCHEDULE

Wollemi College - LOT 2. DP 1176624
Enclosure Of Existing COLA For Indoor Court
Gipps Street. Werrington 2747. NSW

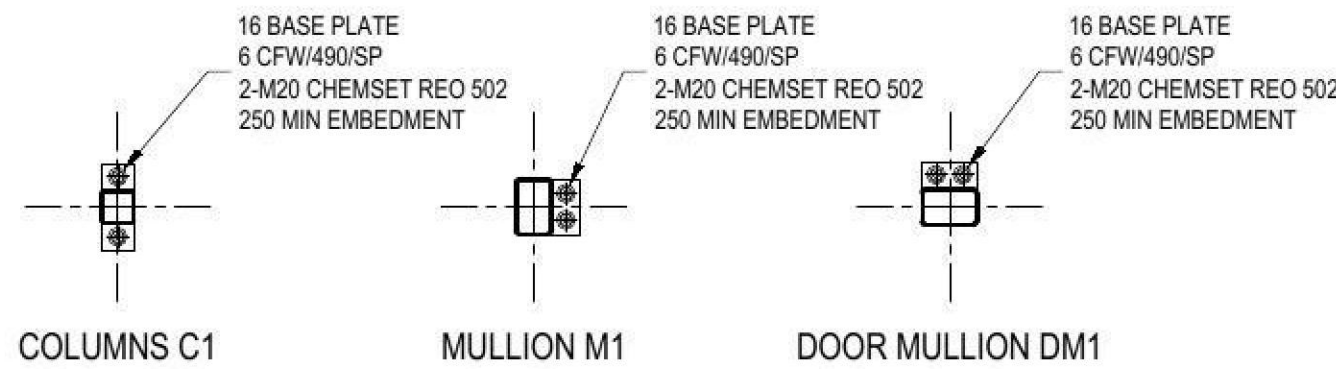
CARROLL AND CARROLL
ARCHITECTS
238 GARDEN ST. WARRINGTON NSW 2747
Tel: 02 9567 1045

Date: 28 June 2016

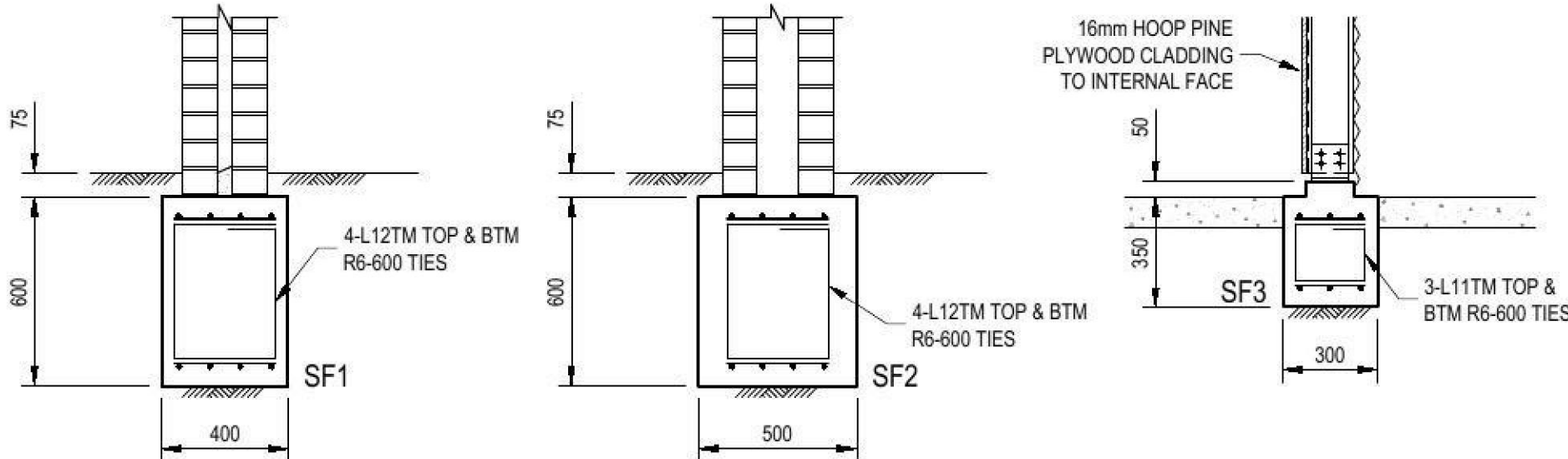
13



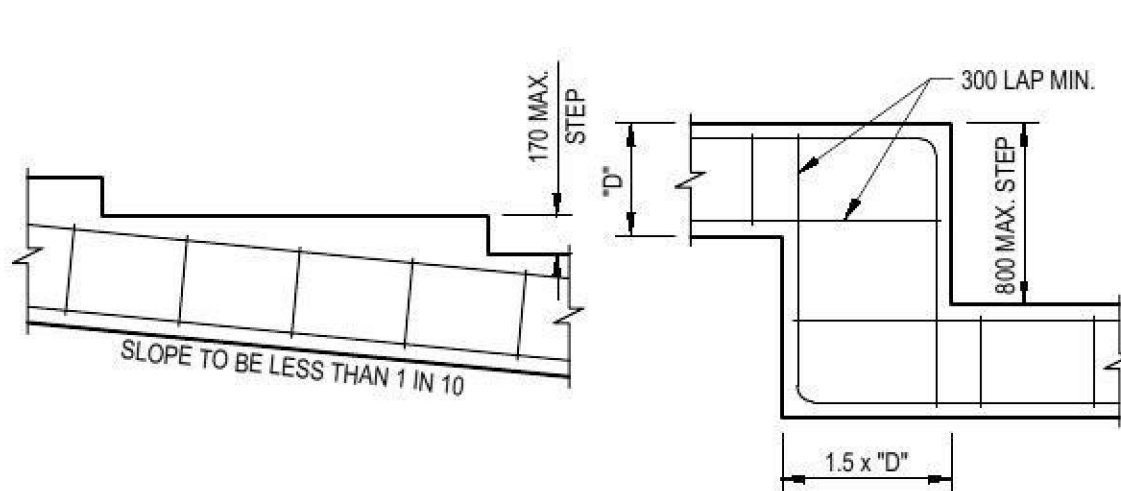
FOOTING PLAN
1:100



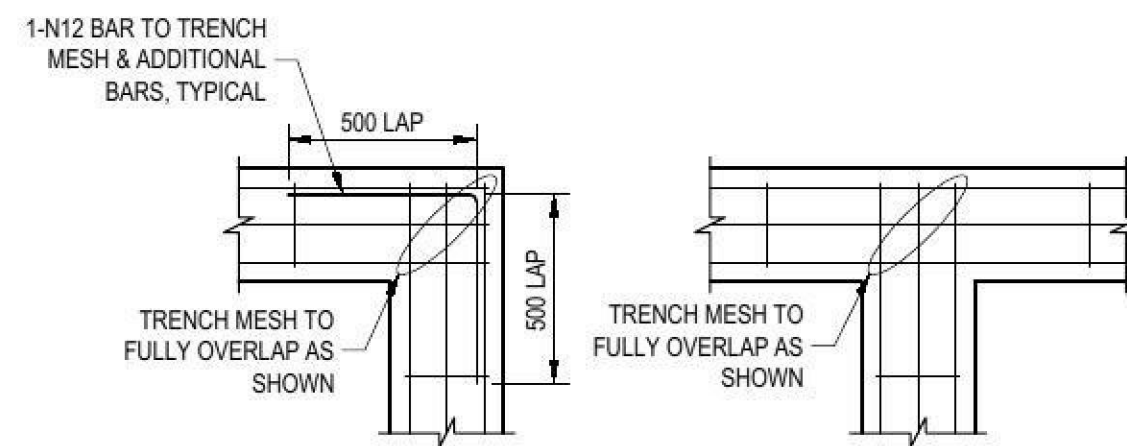
TYPICAL COLUMN BASE PLATE DETAILS
1:20



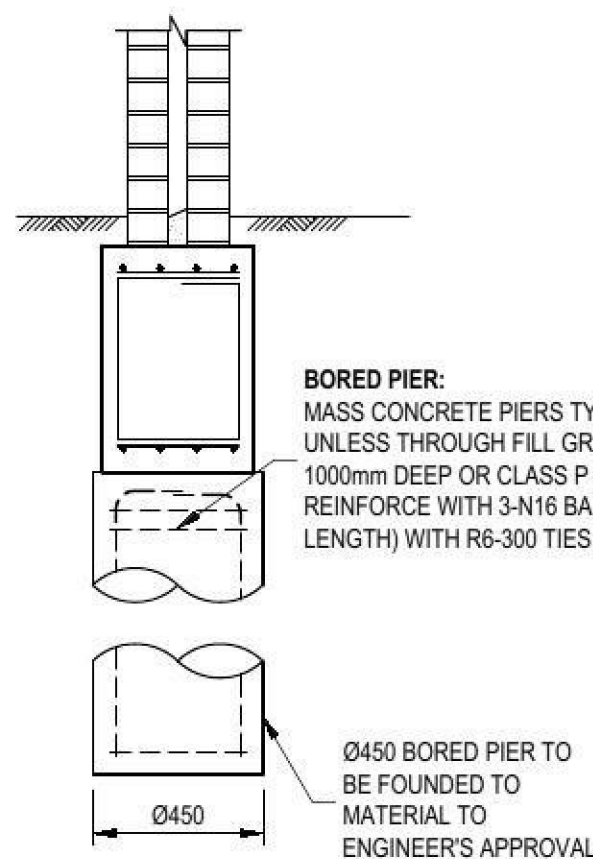
TYPICAL STRIP FOOTING DETAIL
1:20



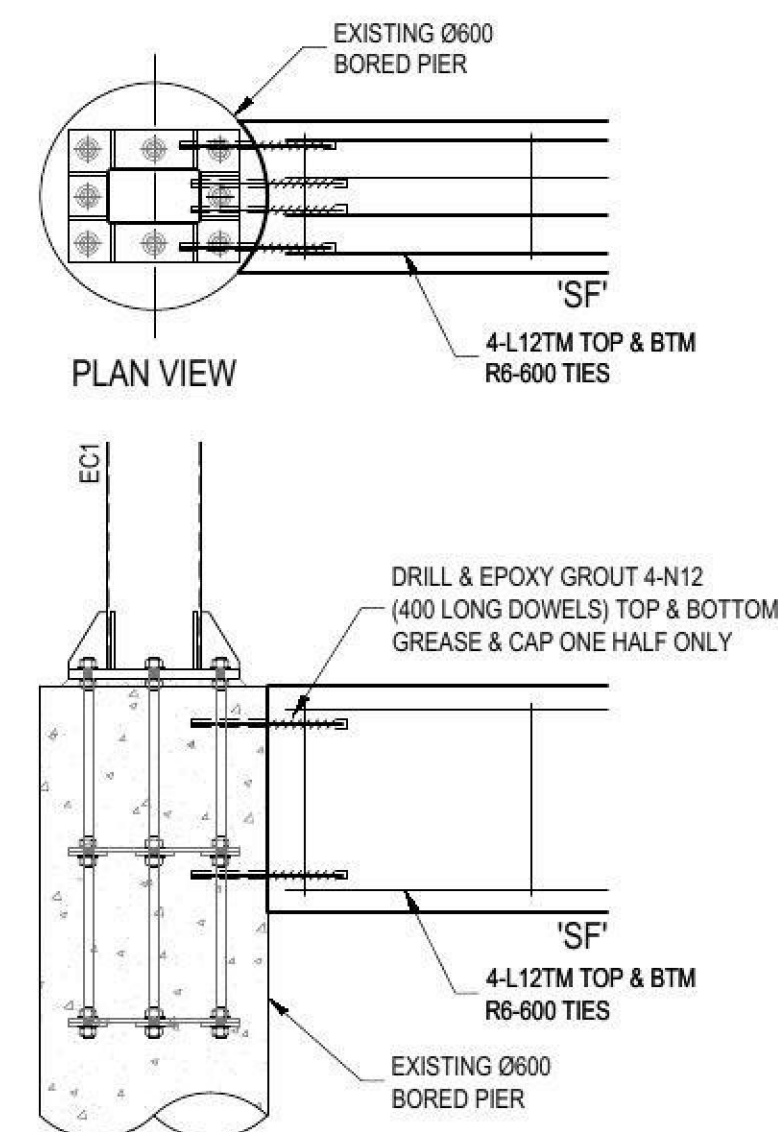
TYPICAL STRIP FOOTING STEP DETAIL
1:20



TYPICAL FOOTING CORNER DETAIL
1:20



TYPICAL BORED PIER 'BP1' DETAIL
1:20



TYPICAL STRIP FOOTING TO EXISTING BORED PIER DETAIL
1:20

COLUMN SCHEDULE			
MARK	DESCRIPTION	SIZE	COMMENTS
C1	COLUMN	89 x 89 x 3.5 SHS	C450L0
M1	MULLION	150 x 100 x 6.0 RHS	C350L0
DM1	DOOR MULLION	150 x 100 x 6.0 RHS	C450L0
EC1	COLUMN	250 x 150 x 5.0 RHS	C450L0
EC2	COLUMN	150 UC 23.4	GRADE 300PLUS
EC3	COLUMN	100 x 100 x 3.0 SHS	C350L0
EC4	COLUMN	150 UC 30.0	GRADE 300PLUS

BORED PIER SCHEDULE				
TYPE	SIZE	DEPTH	REINFORCEMENT	CONCRETE
			45 COVER MIN	
BP1	Ø450	1500	MASS CONCRETE	32MPa

EXISTING BORED PIER SCHEDULE				
TYPE	SIZE	DEPTH	REINFORCEMENT	CONCRETE
			45 COVER MIN	
EBP1	Ø600	1800	8-N24 BARS (R10-300 TIES)	32MPa
EBP2	Ø450	1500	MASS CONCRETE	32MPa
EBP3	TIMBER BEARING PLATE			

DEPTH REFERS TO DEPTH INTO NATURAL CLAY

BORED PIERS HAVE BEEN DESIGNED BASED ON AN ALLOWABLE END BEARING PRESSURE OF 450 kPa & SKIN FRICTION OF 20 kPa (ASSUMED) TO BE CONFIRMED ON SITE PRIOR TO POURING CONCRETE



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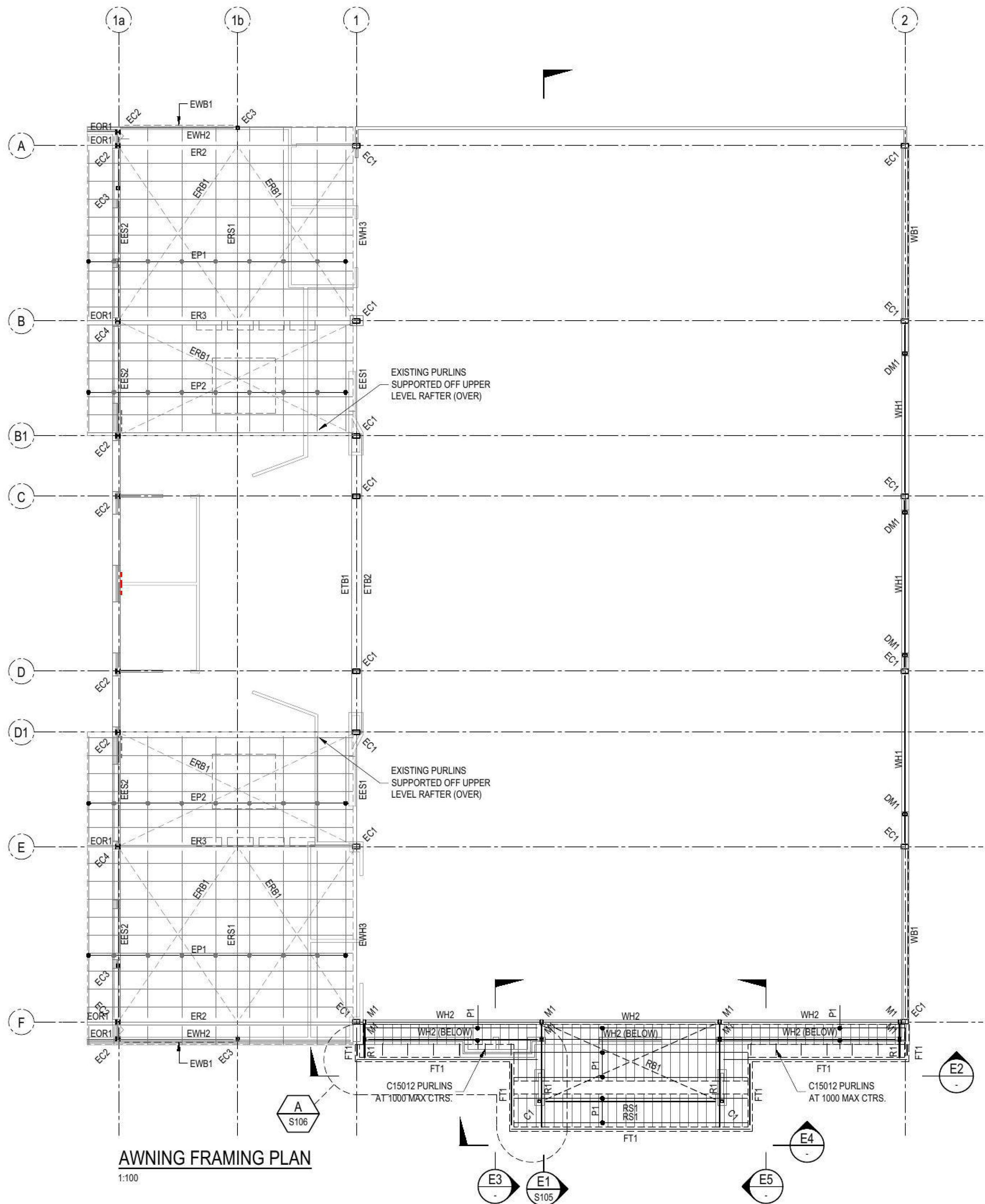
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ECLIPSE Consulting Engineers Pty Ltd
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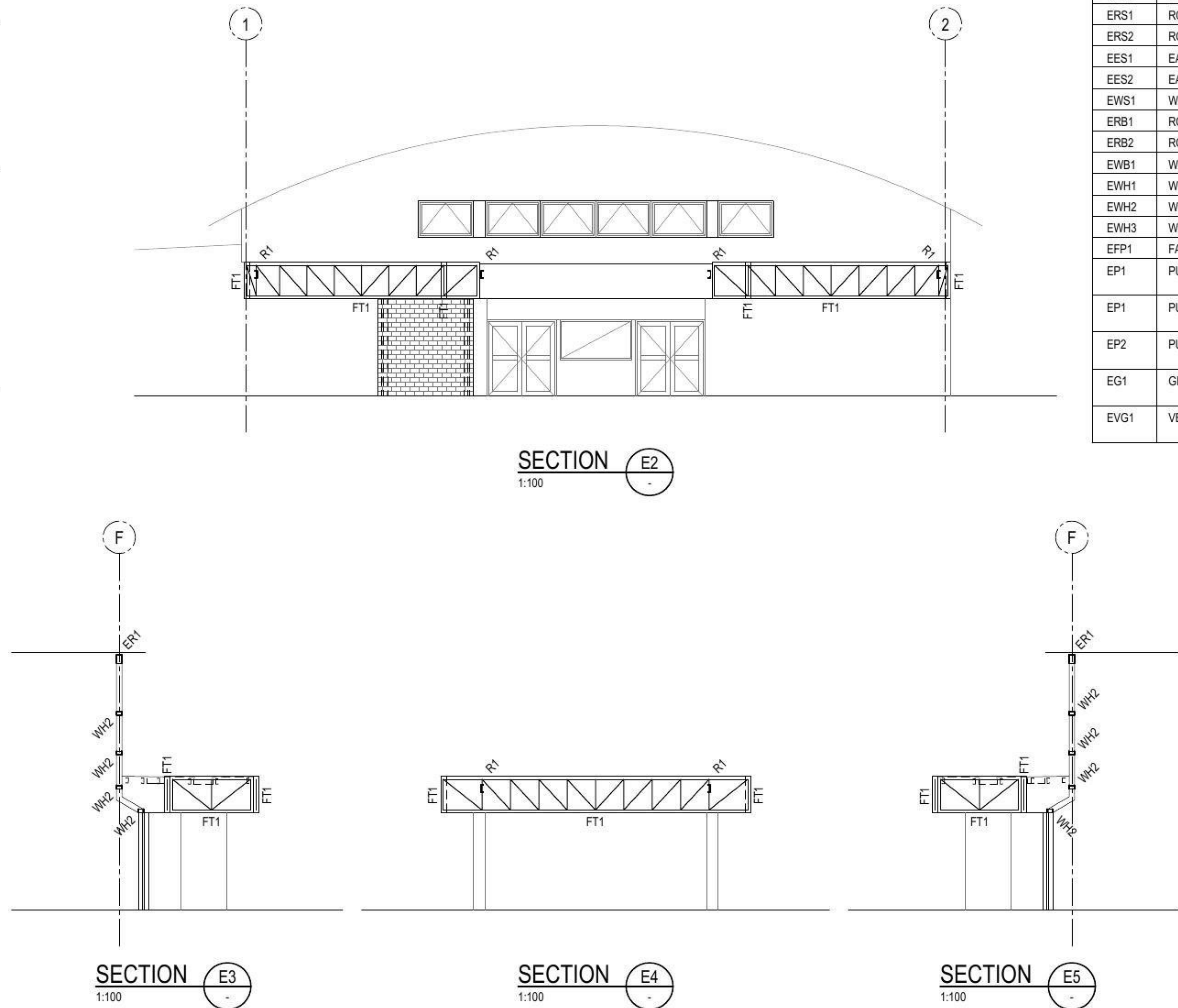
Phone : (02) 9894 8500
Fax : (02) 8850 0212
info@eclipseconsulting.com.au
www.eclipseconsulting.com.au

PROPOSED COLA ENCLOSURE
Wollemi College, Gipps St, Werrington
For Pared Foundation

FOOTING PLAN & DETAILS			
DESIGN SWH	DRAWN ABD	DATE JUN 2016	PROJECT No. 8764
CHECKED	APPROVED	SCALE 1:100, 1:20	DRG No. S102 - A



AWNING FRAMING PLAN
1:100



SECTION E3
1:100

SECTION E4
1:100

SECTION E5
1:100

PENRITH CITY COUNCIL

This plan / document relates to Construction Certificate: **CC16/0164**

Subject to the conditions outlined in the consent

COUNCIL DOES NOT ATTEST TO THE ACCURACY OF DETAILS IN PLANS

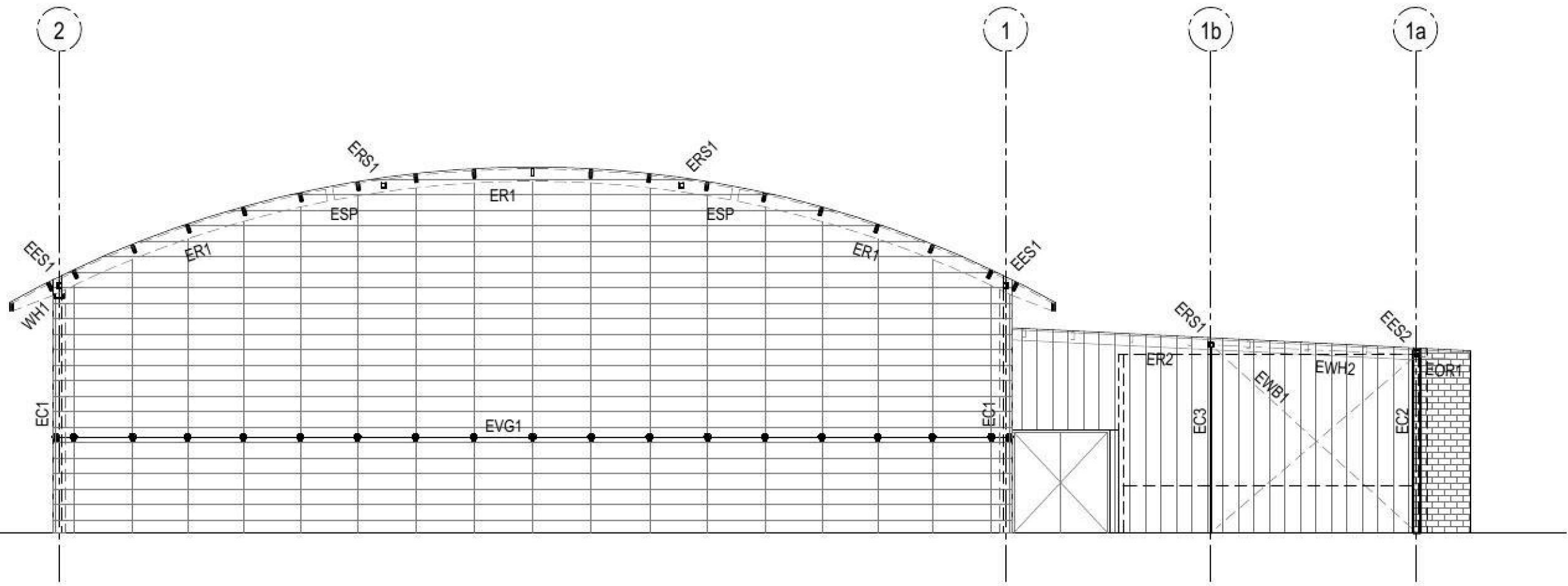
COLUMN SCHEDULE			
MARK	DESCRIPTION	SIZE	COMMENTS
C1	COLUMN	89 x 89 x 3.5 SHS	C450L0
M1	MULLION	150 x 100 x 6.0 RHS	C350L0
DM1	DOOR MULLION	150 x 100 x 6.0 RHS	C450L0
EC1	COLUMN	250 x 150 x 5.0 RHS	C450L0
EC2	COLUMN	150 UC 23.4	GRADE 300PLUS
EC3	COLUMN	100 x 100 x 3.0 SHS	C350L0
EC4	COLUMN	150 UC 30.0	GRADE 300PLUS

STRUCTURAL STEELWORK SCHEDULE			
MARK	DESCRIPTION	SIZE	COMMENTS
R1	RAFTER	200 PFC	GRADE 300PLUS
RS1	ROOF STRUT	100 x 100 x 4.0 SHS	C450L0
RB1	ROOF BRACING	M16 ROD	GRADE 300PLUS
WB1	WALL BRACING	M20 ROD	GRADE 300PLUS
DH1	DOOR HEADER	150 x 150 x 6.0 SHS	C350L0
WH1	WALL HEADER	200 PFC	GRADE 300PLUS
WH2	WALL HEADER	150 x 100 x 4.0 RHS	C350L0
P1	PURLIN	C15015 AT 1200 MAX CTRS SINGLE SPAN	TWO ROWS OF BRIDGING
VG1	VERTICAL GIRTS	C15019 AT 1200 MAX CTRS SINGLE SPAN	TWO ROWS OF BRIDGING
VG2	VERTICAL GIRTS	C15015 AT 1200 MAX CTRS SINGLE SPAN	NO BRIDGING

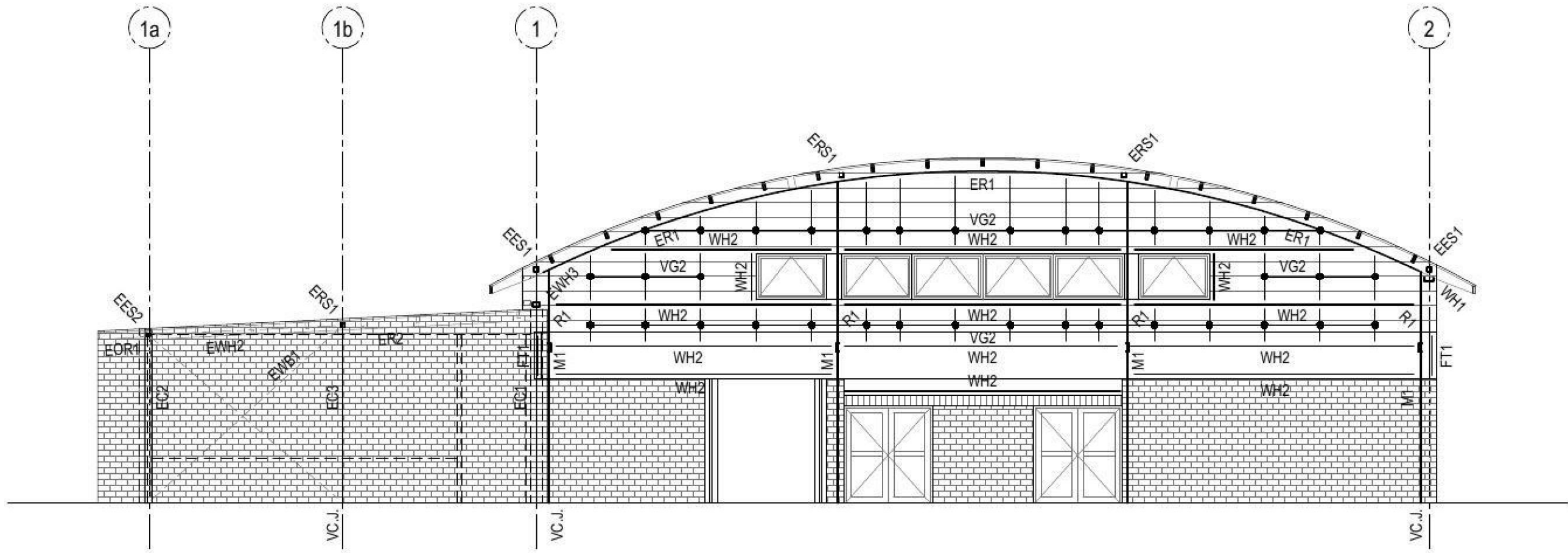
FRAME-TEK FASCIA TRUSS SCHEDULE (FRAME-TEK Ph: 1300 137263)					
MARK	DEPTH - o/a	SPAN (MAX)	CHORD MEMBERS	VERTICALS & DIAGONALS	No. OF RIVETS
FT1	1000	6500	PRC 15019	C15015	4 EACH END

EXISTING STRUCTURAL STEELWORK SCHEDULE			
MARK	DESCRIPTION	SIZE	COMMENTS
ER1	RAFTER	250 x 150 X 5.0 RHS	C350L0
ER2	RAFTER	200 UB 29.8	GRADE 300PLUS
ER3	RAFTER	200 UB 18.2	GRADE 300PLUS
ETB1	TRANSFER BEAM	380 PFC	GRADE 300PLUS
ETB1	TRANSFER BEAM	250 PFC	GRADE 300PLUS
ERS1	ROOF STRUT	100 x 100 x 4.0 SHS	C350L0
ERS2	ROOF STRUT	75 x 75 x 3.0 SHS	C350L0
EES1	EAVES STRUT	100 x 100 x 4.0 SHS	C350L0
EES2	EAVES STRUT	75 x 75 x 3.0 SHS	C350L0
EWS1	WALL STRUT	100 x 100 x 3.0 SHS	C350L0
ERB1	ROOF BRACING	M20 ROD	GRADE 300PLUS
ERB2	ROOF BRACING	M16 ROD	GRADE 300PLUS
EWB1	WALL BRACING	M20 ROD	GRADE 300PLUS
EWH1	WALL HEADER	200 PFC	GRADE 300PLUS
EWH2	WALL HEADER	75 x 75 x 3.0 SHS	C350L0
EWH3	WALL HEADER	150 x 100 x 4.0 RHS	C350L0
EPF1	FASCIA PURLIN	150 x 50 x 2.0 RHS	C350L0
EP1	PURLIN	150 x 50 x 2.0 RHS AT 1200 MAX CTRS	1 ROW BRIDGING
EP1	PURLIN	C15015 AT 1200 MAX CTRS SINGLE SPAN	2 ROWS BRIDGING
EP2	PURLIN	C15012 AT 1200 MAX CTRS SINGLE SPAN	1 ROW BRIDGING
EG1	GIRTS	C15015 AT 900 MAX CTRS SINGLE SPAN	1 ROW BRIDGING
EVG1	VERTICAL GIRTS	150 x 50 x 2.0 RHS AT 1200 MAX CTRS	1 ROW BRIDGING

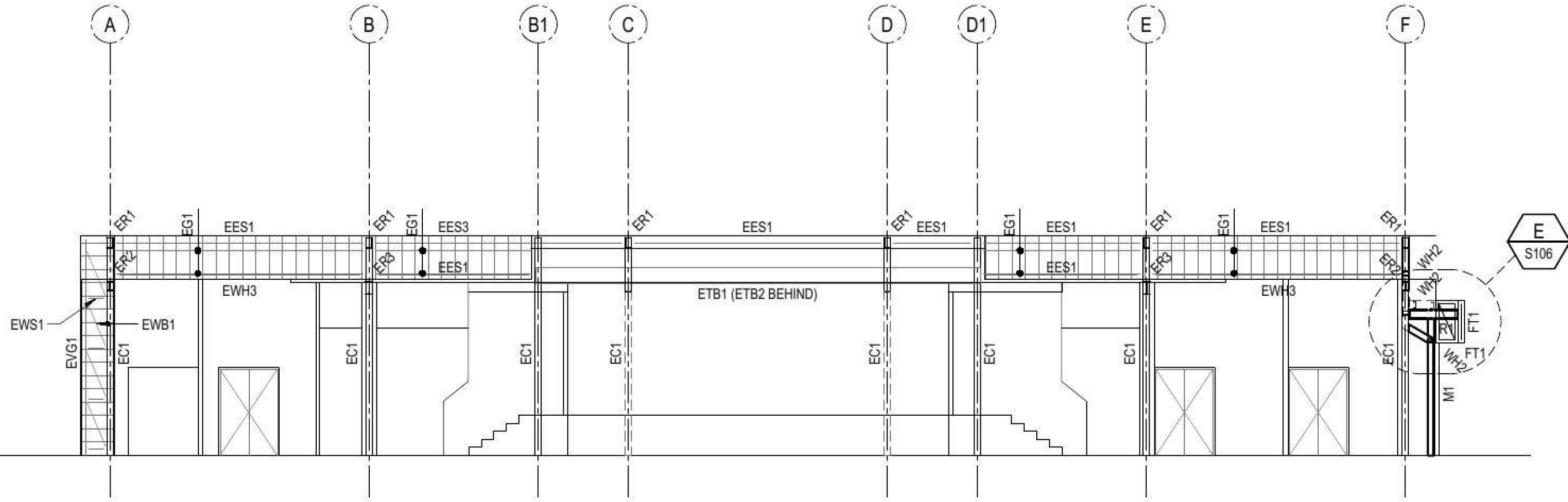
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PROPOSED COLA ENCLOSURE Wollemi College, Gipps St, Werrington For Pared Foundation		
AWNING FRAMING PLAN & SECTIONS		
DESIGN SWH	DRAWN ABD	DATE JUN 2016
CHECKED	APPROVED	SCALE 1:100
		PROJECT No. 8764
		DRG No. S103 - A



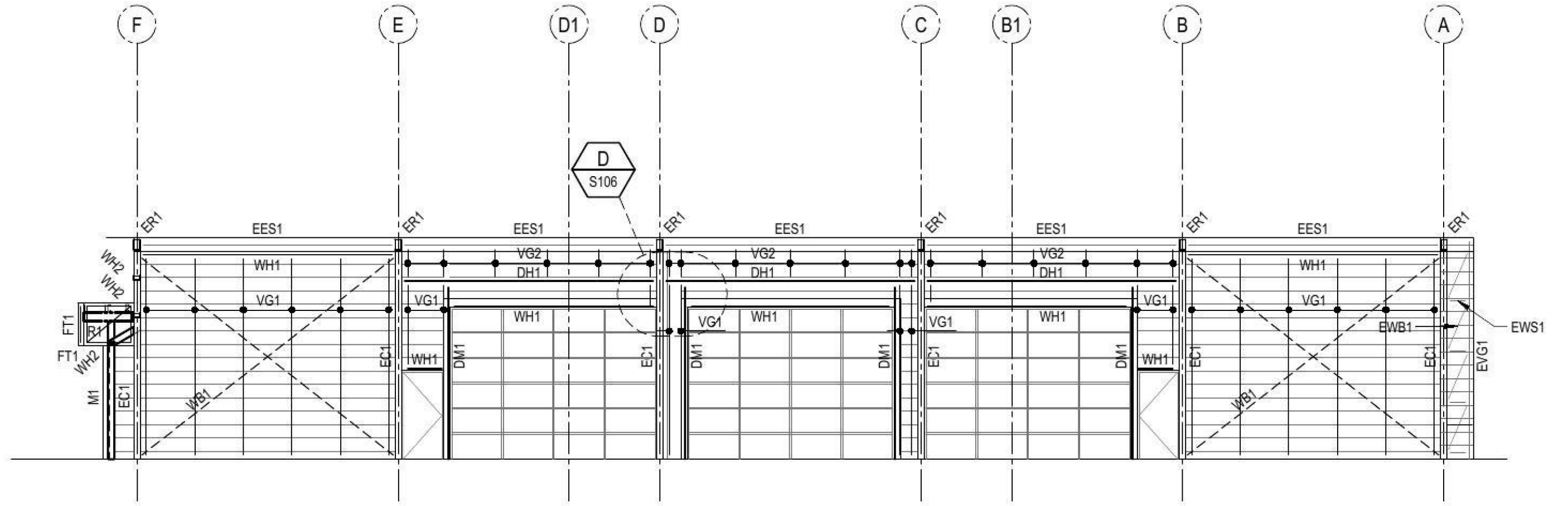
ELEVATION ON GRID A
1:100



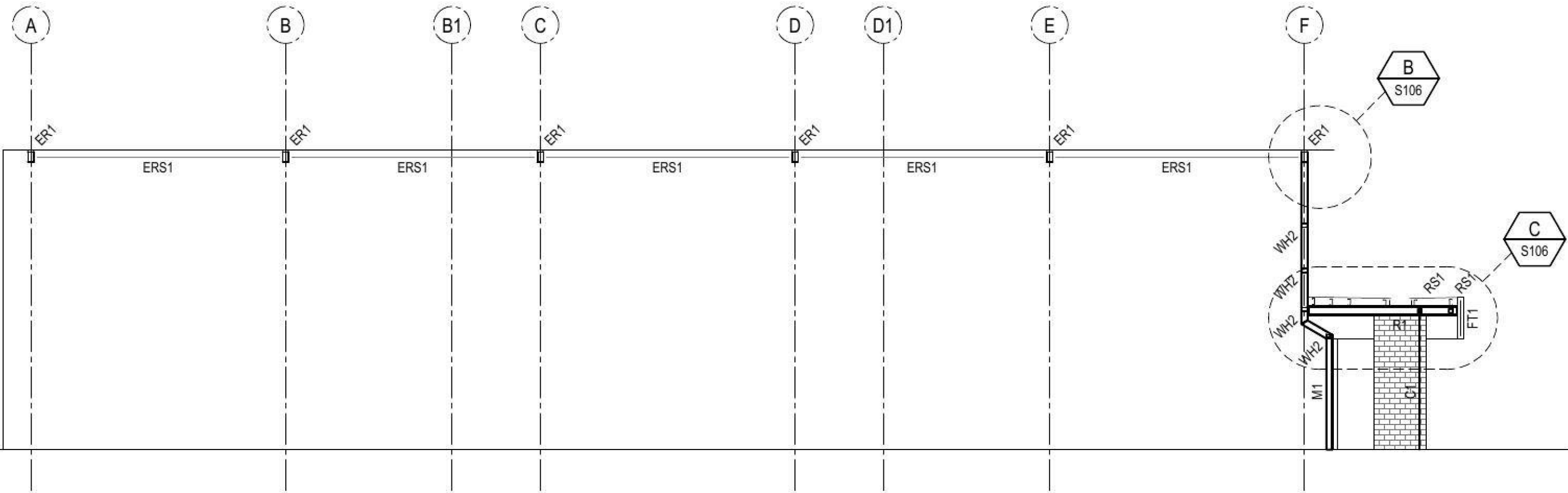
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1:100



ELEVATION ON GRID 1
1:100

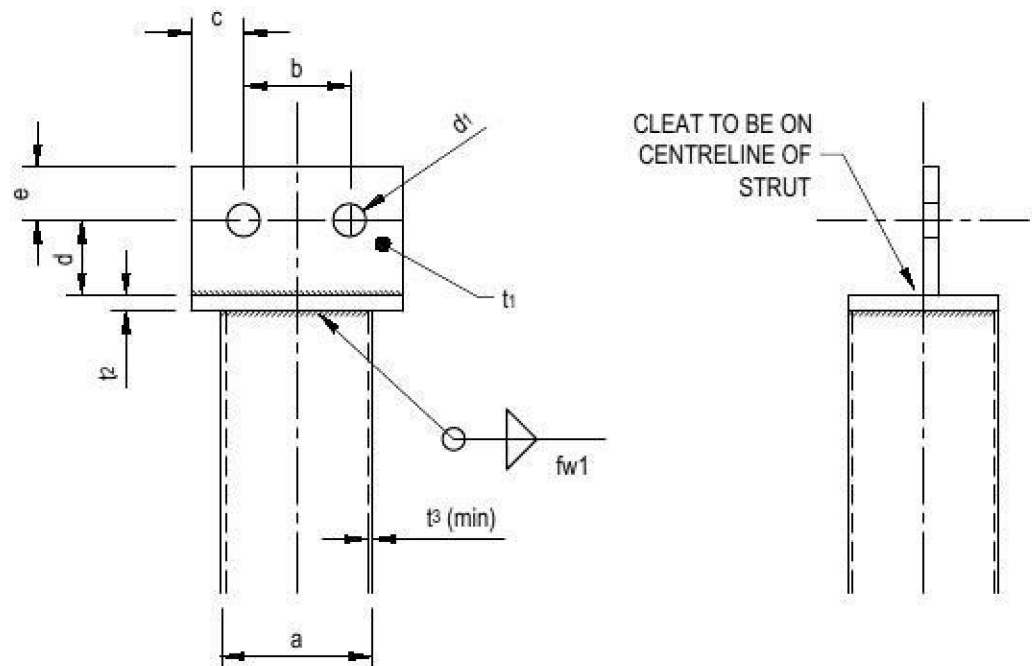
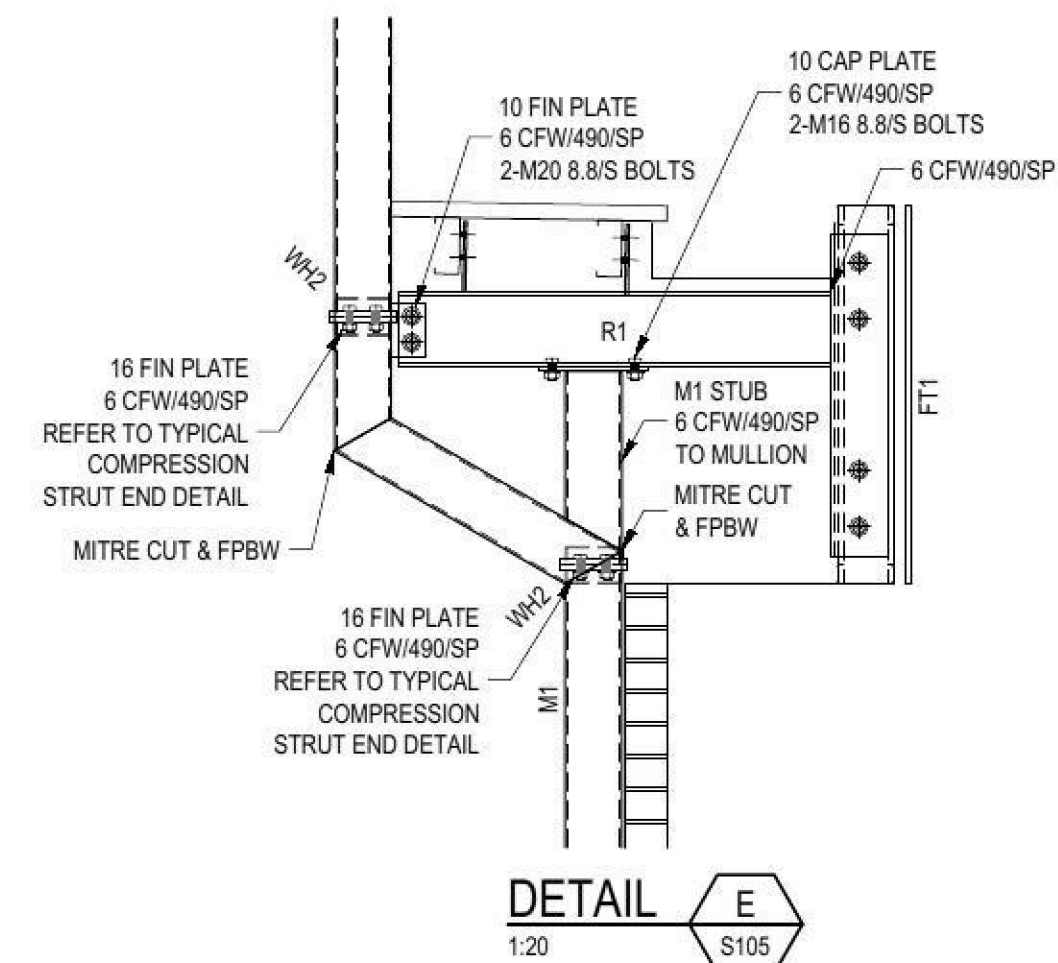
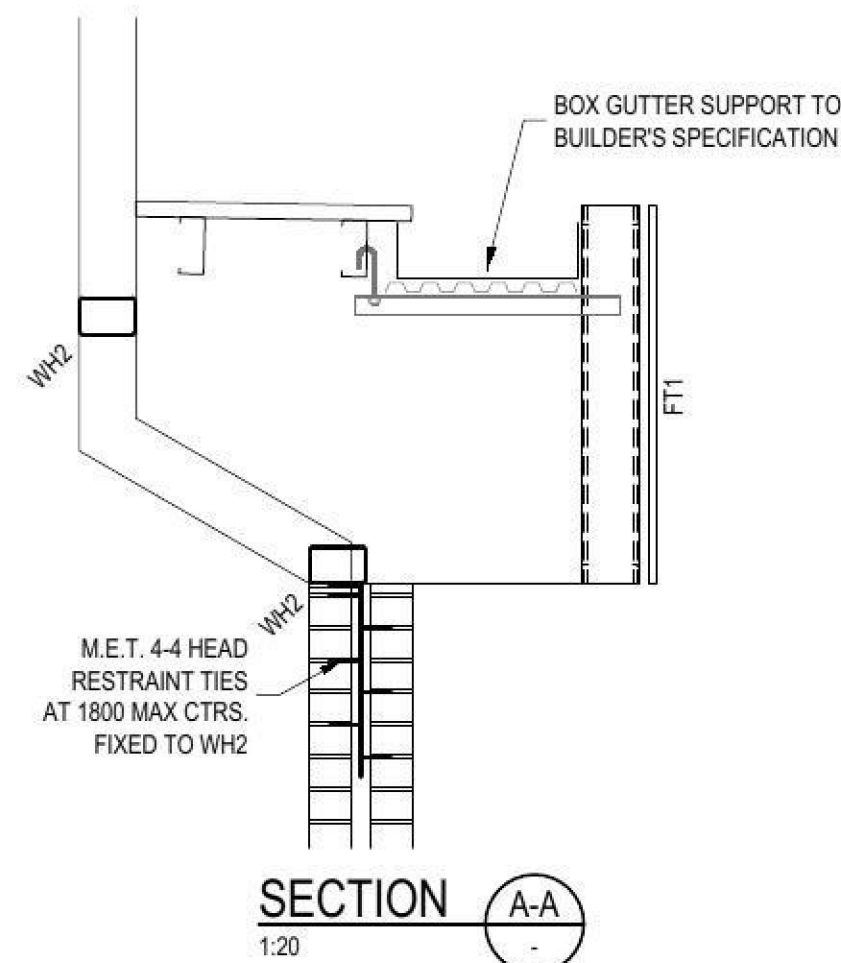
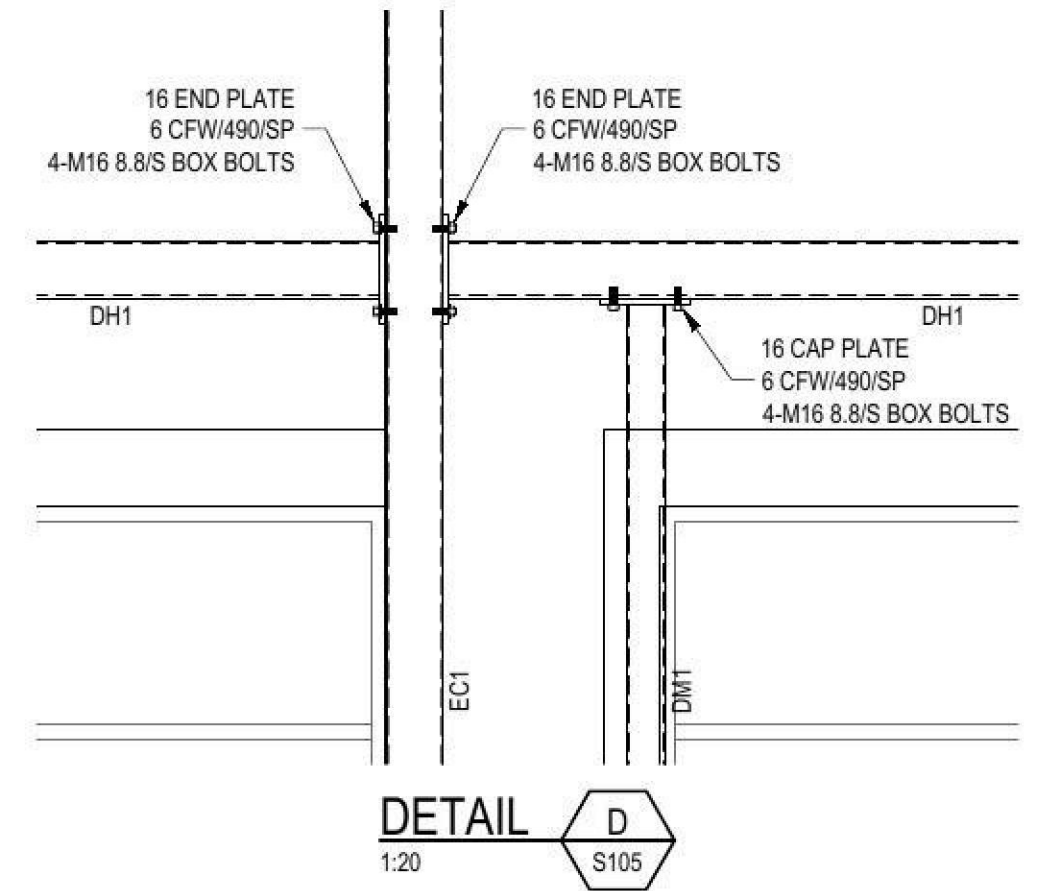
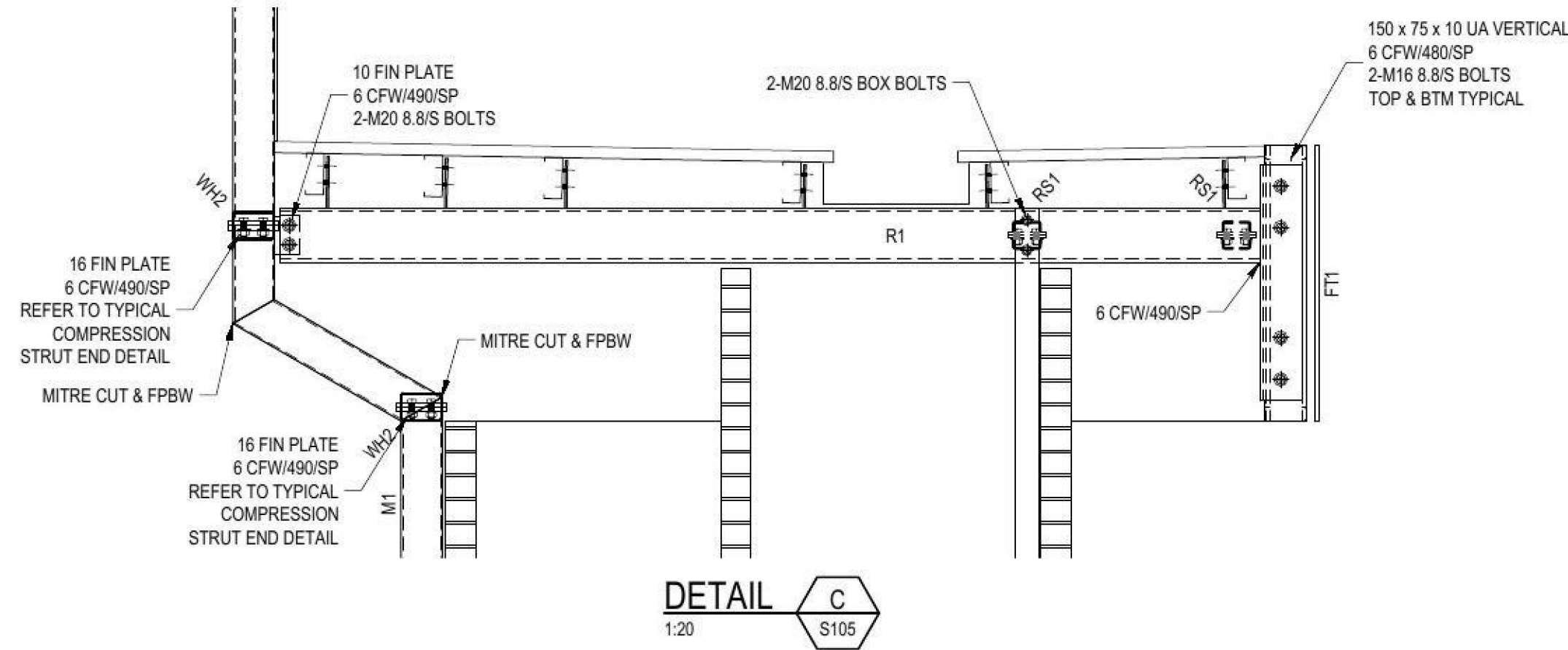
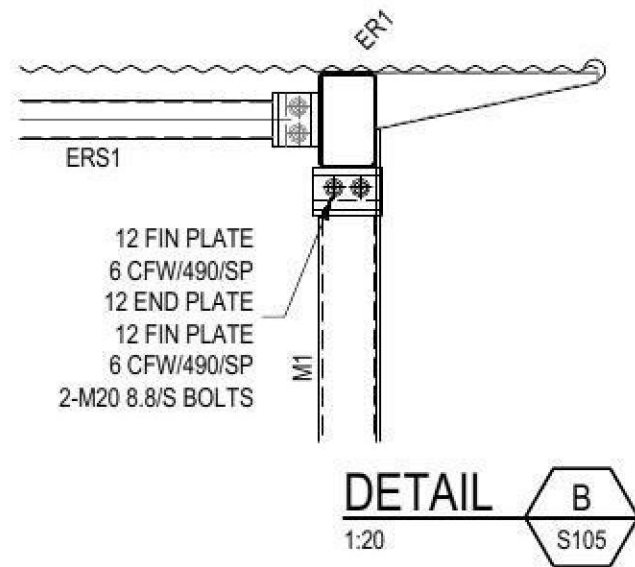
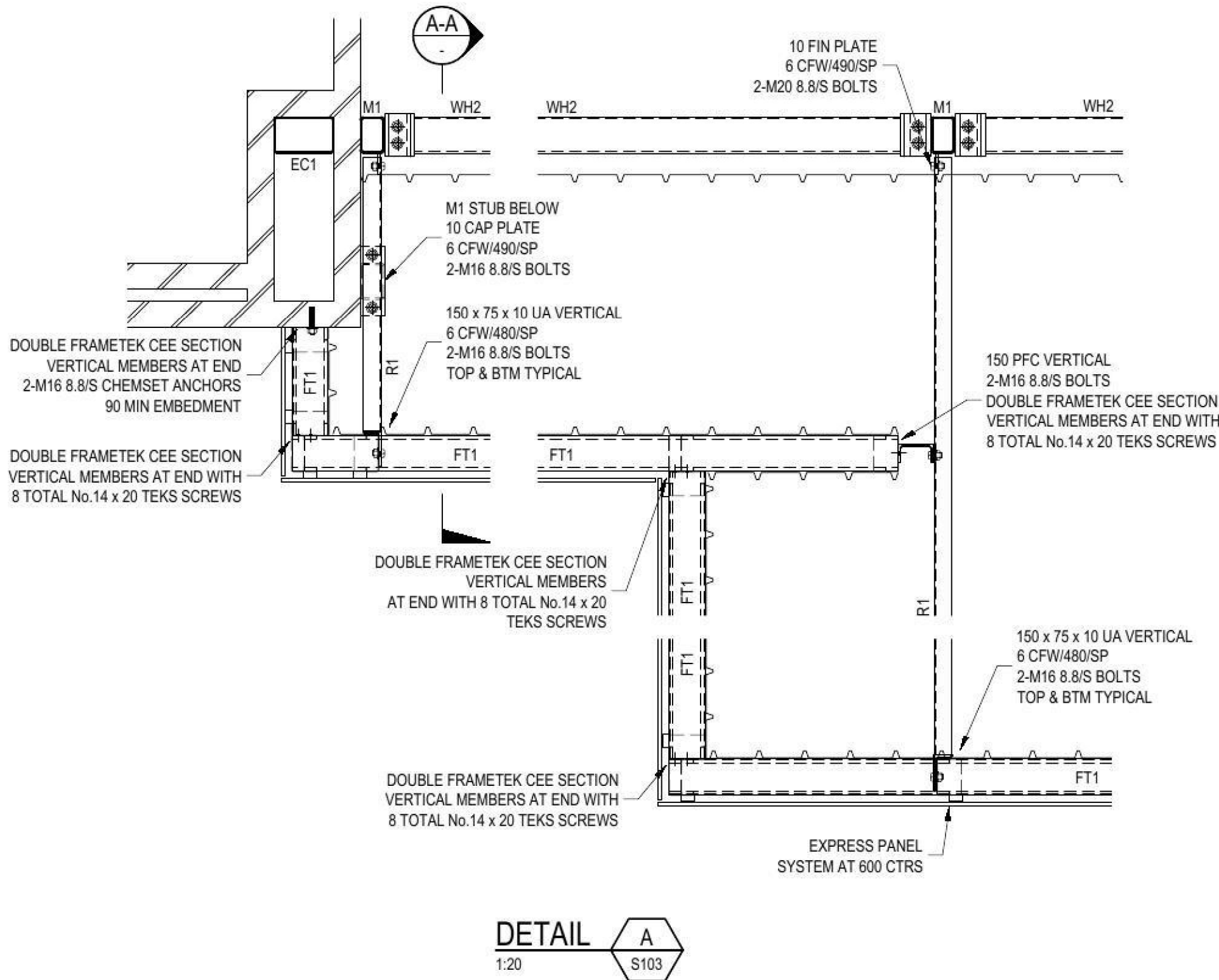


ELEVATION ON GRID 2
1:100



SECTION E1
1:100

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PROPOSED COLA ENCLOSURE Wollemi College, Gipps St, Werrington For Pared Foundation		
STEELWORK ELEVATIONS		
DESIGN SWH	DRAWN ABD	DATE JUN 2016
CHECKED	APPROVED	SCALE 1:100
PROJECT No. 8764		DRG No. S105 - A



STANDARD COMPRESSION STRUT END DETAIL											CAPACITY
a	b	c	d	e	t ₁	t ₂	t ₂ (min)	fw1	d ₁	Ø bolt	ØN _c (kN)
75	70	35	55	35	12	12	3	6	22	M20	90
90	70	35	55	35	12	12	3	6	22	M20	105
100	70	35	55	35	12	12	3	8	22	M20	120
125	70	35	55	35	16	16	4	8	22	M20	150
150	70	55	55	35	16	16	5	8	22	M20	180
200	70	75	55	35	16	16	5	8	26	M24	200

- ALL PLATES TO BE GRADE 300PLUS
- ALL BOLTS TO BE GRADE 8.8/S
- ALL WELDS TO BE 480/SP

TYPICAL COMPRESSION STRUT END DETAIL

1:5

A1 ORIGINAL SIZE

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PROPOSED COLA ENCLOSURE		
Wollemi College, Gipps St, Werrington For Pared Foundation		
STEELWORK SECTIONS & DETAILS		
DESIGN SWH	DRAWN ABD	DATE JUN 2016
CHECKED	APPROVED	SCALE 1:20, 1:5
PROJECT No. 8764		DRG No. S106 - A

HYDRAULIC SERVICES

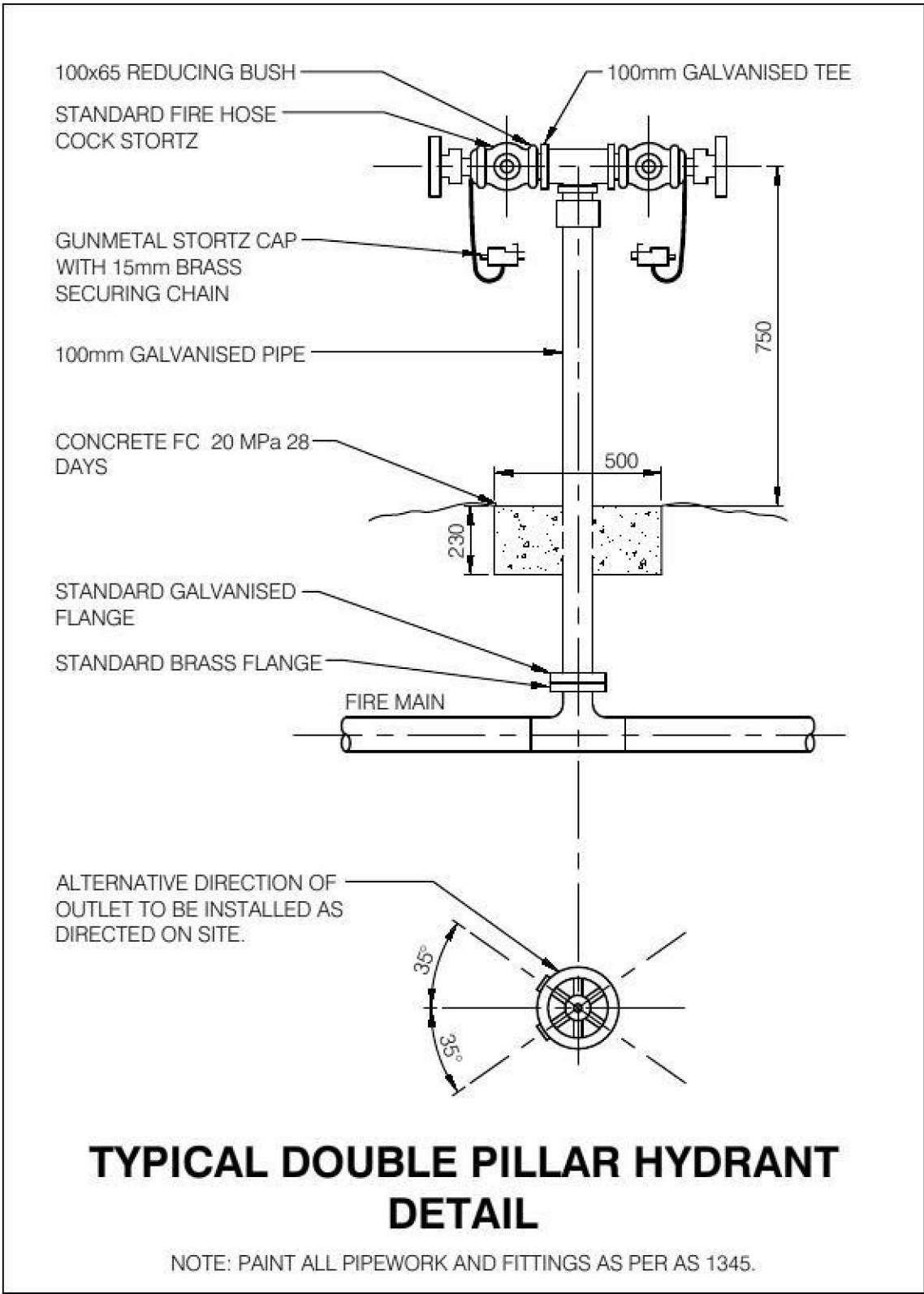
FOR ENCLOSE EXISTING COLA WOLLEMI COLLEGE GIPPS ST, WERRINGTON NSW 2747

DRAWING SCHEDULE:

H-01	LEGEND, NOTES & DETAILS	N.T.S
H-02	SITE SERVICES AND FIRE HYDRANT/HOSE REEL LAYOUTS	AS NOTED

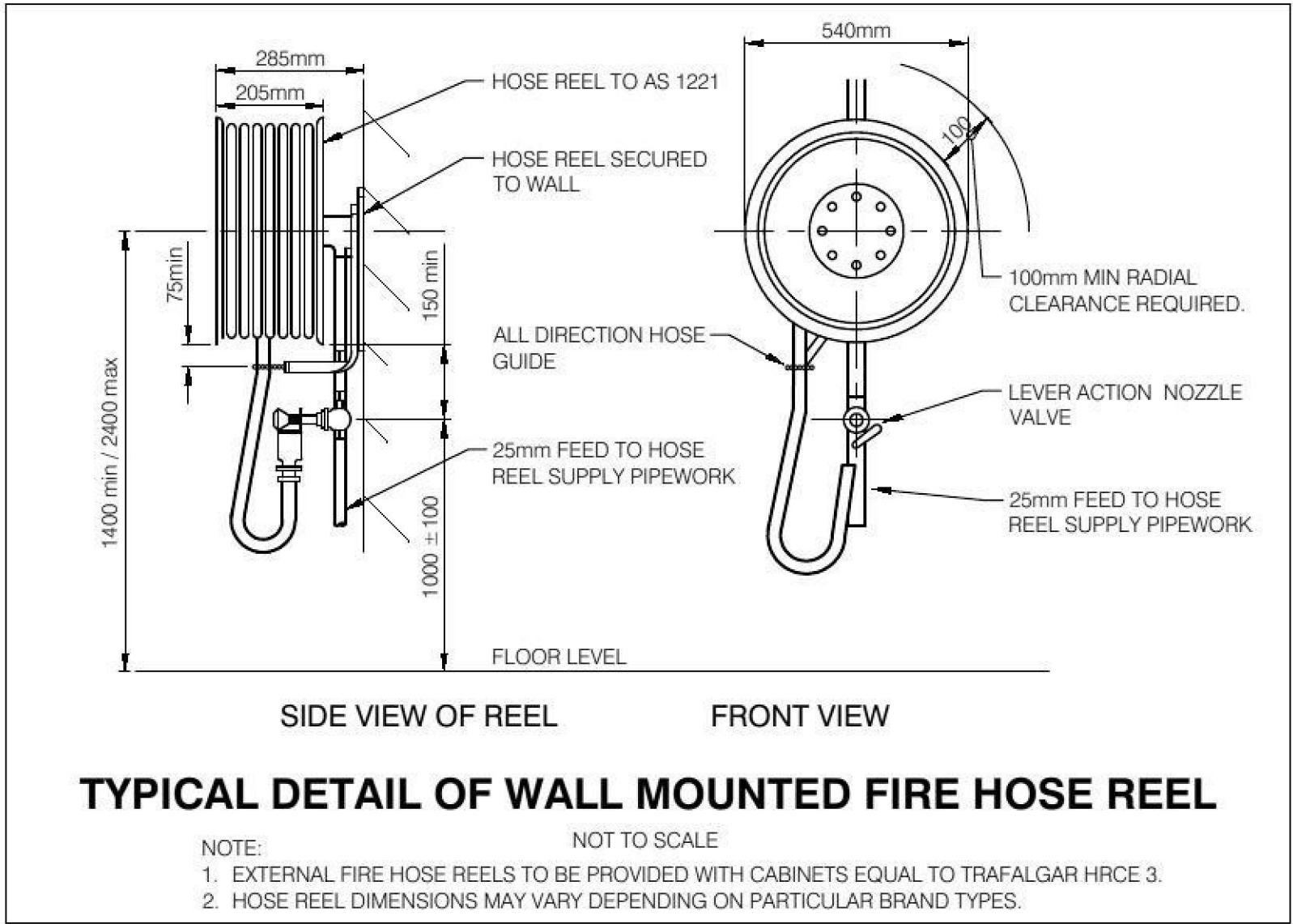
LEGEND		NOTE SOME ITEMS NOT USED
PIPEWORK		SYMBOLS
---	EX-CW	COLD WATER - EXISTING
---	CW	COLD WATER - NEW
---	EX-FH	FIRE HYDRANT - EXISTING
---	FH	FIRE HYDRANT - NEW
DPH	DPH	DOUBLE PILLAR HYDRANT
FHR	FHR	FIRE HOSE REEL

- NOTES:
- IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN A DIAL BEFORE YOU DIG TO ASCERTAIN THE FULL EXTENT OF EXISTING SERVICES SURROUNDING THE SUBJECT PROPERTY. PRIOR TO ANY EXCAVATION THE RELEVANT AUTHORITIES eg TELSTRA OPTUS, AGILITY etc. ARE TO BE NOTIFIED OF ALL WORKS.
 - IT IS THE HYDRAULIC CONTRACTORS RESPONSIBILITY TO ENGAGE A SUITABLE QUALIFIED CONTRACTOR TO CARRY OUT A THOROUGH GROUND SEARCH FOR EXISTING SERVICES AROUND AND IN THE PROPOSED BUILDING FOOTPRINT. NOTIFY THE SUPERINTENDENT IMMEDIATELY IF ADDITIONAL SERVICES TO THAT DOCUMENTED ARE LOCATED. THIS IS TO BE CARRIED OUT PRIOR TO ANY WORKS BEING COMMENCED.
 - ALLOW TO PREPARE & SUPPLY DETAILED 'AS INSTALLED' DRAWINGS & MAINTENANCE MANUALS FOR ALL ASSOCIATED WORKS AS DETAILED IN THE SPECIFICATION.
 - ALL DISRUPTIONS TO EXISTING SERVICES FOR NEW CONNECTIONS ARE TO BE COORDINATED ON SITE WITH THE PROJECT SUPERINTENDENT.
 - ALL HYDRANT PIPEWORK TO BE BLUE BRUTE CLASS 20 INGROUND OR GALVANIZED STEEL ABOVE GROUND TO COMPLY WITH AUSTRALIAN STANDARDS. ALL BLUE BRUTE PIPEWORK TO BE SUPPORTED BY THRUST BLOCKS.



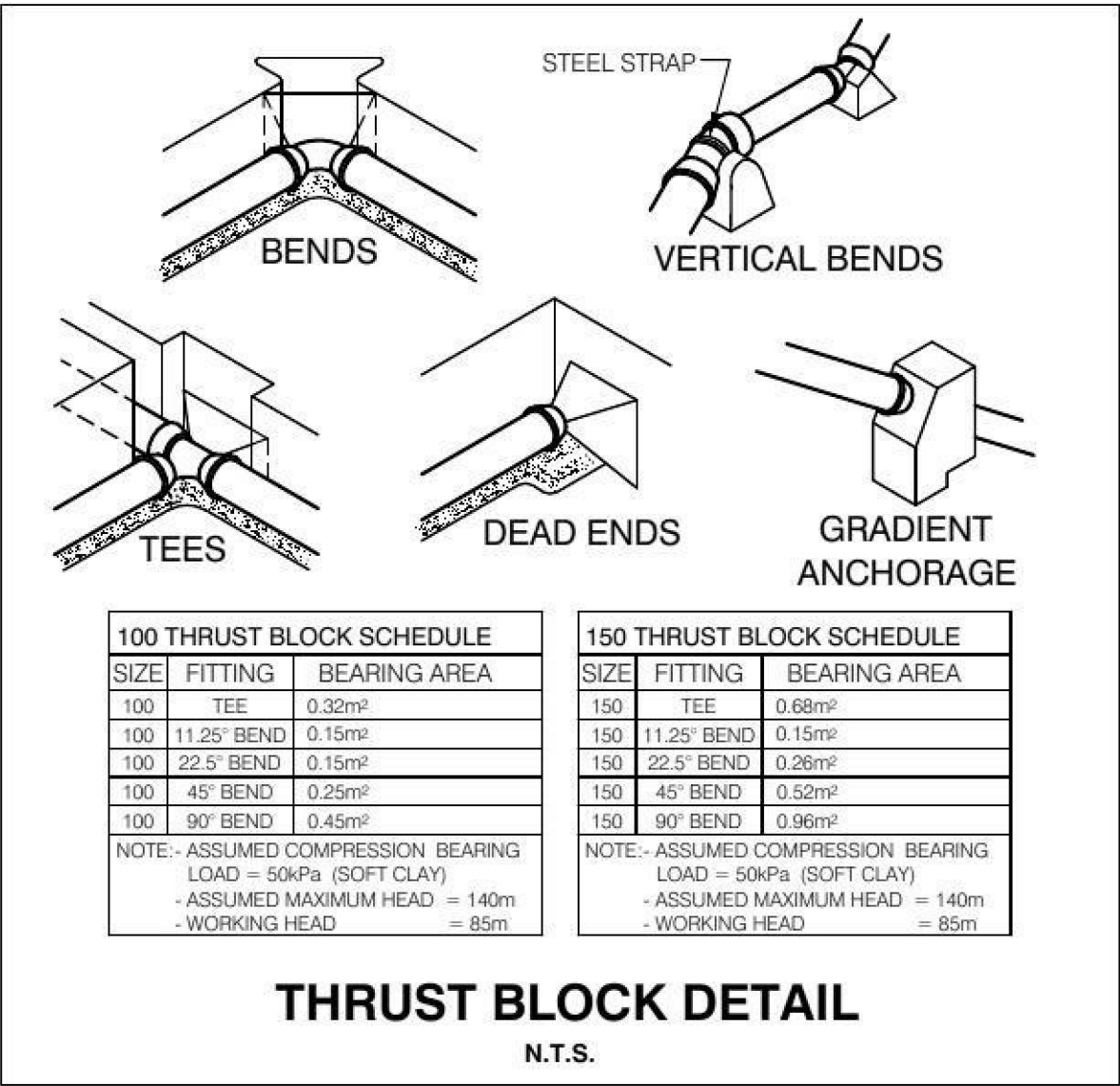
TYPICAL DOUBLE PILLAR HYDRANT
DETAIL

NOTE: PAINT ALL PIPEWORK AND FITTINGS AS PER AS 1345.



TYPICAL DETAIL OF WALL MOUNTED FIRE HOSE REEL

- NOTE:
- EXTERNAL FIRE HOSE REELS TO BE PROVIDED WITH CABINETS EQUAL TO TRAFALGAR HRCE 3.
 - HOSE REEL DIMENSIONS MAY VARY DEPENDING ON PARTICULAR BRAND TYPES.
- NOT TO SCALE



THRUST BLOCK DETAIL

N.T.S.

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CONSULTING ENGINEERS

ELECTRICAL, MECHANICAL, HYDRAULICS, LIFT & FIRE
A.C.N. 096 976 946

UNIT 4, 239 KING STREET
NEWCASTLE, NSW 2300

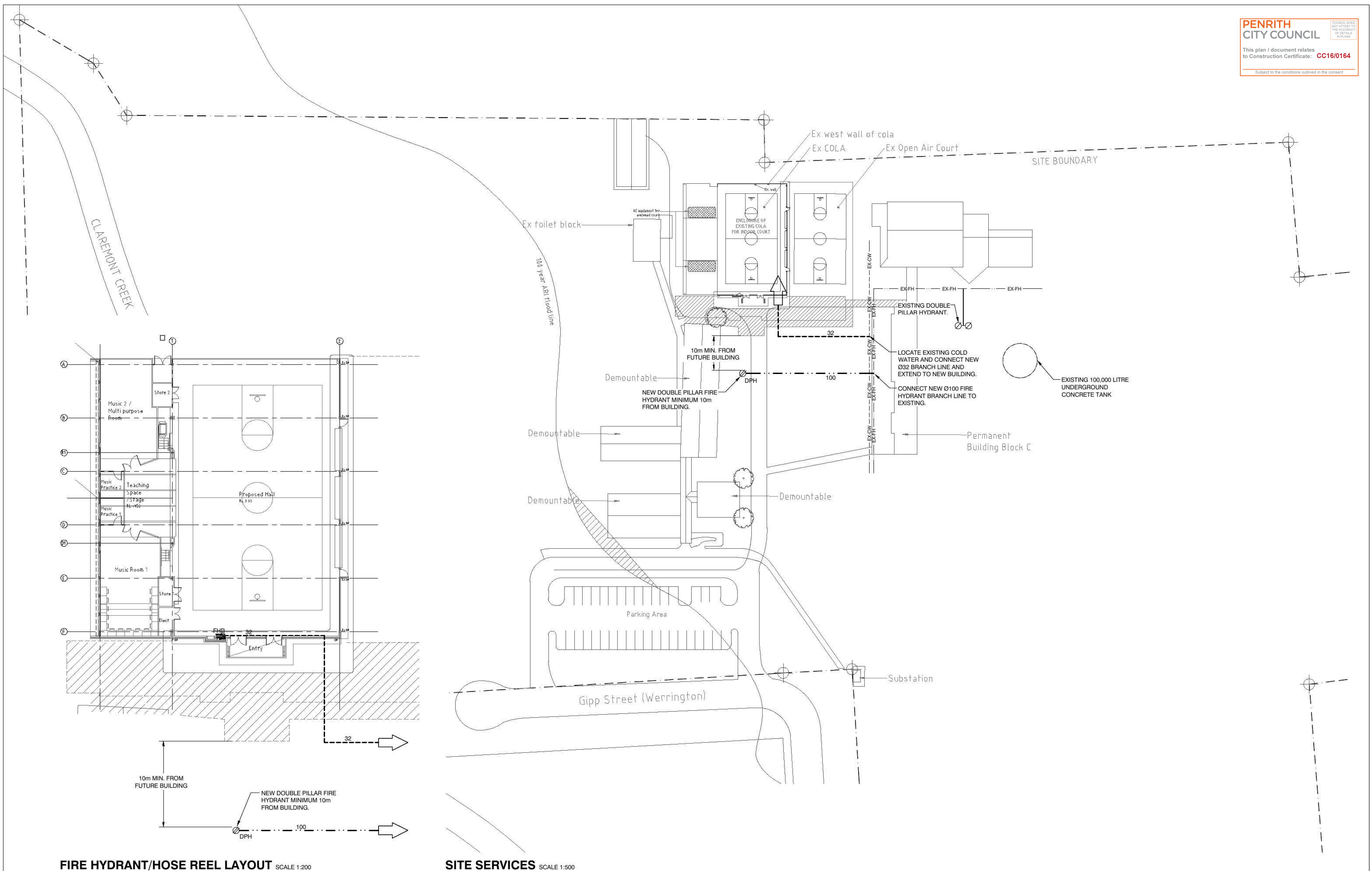
PH: (02) 4925 9300
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Client
THE PARED FOUNDATION

Architect
CARROLL AND CARROLL ARCHITECTS

Project
ENCLOSE EXISTING COLA
WOLLEMI COLLEGE
GIPPS ST, WERRINGTON NSW 2747

Drawn : E.Y.	Design : J.CRAWFORD	Verify : B.MAHER
Scale @ A1 :	N.T.S.	Date : JUNE 2016
Discipline	Job No.	
HYDRAULIC SERVICES	9336	
Drawing Title	Issue	
LEGEND, NOTES AND DETAILS	1	
Drawing No.		
H-01		



FIRE HYDRANT/HOSE REEL LAYOUT SCALE 1:200

SITE SERVICES SCALE 1:500

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Client: **THE PARED FOUNDATION**
Architect: **CARROLL AND CARROLL ARCHITECTS**
Project: **ENCLOSE EXISTING COLA
WOLLEMI COLLEGE
GIPPS ST, WERRINGTON NSW 2747**

Drawn: E.Y.	Design: J.CRAWFORD	Verify: B.MAHER
Scale @ A1:	1:500, 1:100	Date: JUNE 2016
Discipline:	HYDRAULIC SERVICES	Job No. 9336
Drawing Title:	SITE SERVICES AND FIRE HYDRANT/HOSE REEL LAYOUTS	Issue 1
		Drawing No. H-02

MECHANICAL SERVICES

FOR
WOLLEMI COLLEGE
ENCLOSE EXISTING COLA
GIPPS STREET, WERRINGTON, NSW, 2747

DRAWING SCHEDULE:

M-01 LEGEND, NOTES & SCHEDULES
M-02 AIR CONDITIONING & VENTILATION LAYOUTS

N.T.S
1:100

LEGEND

NOTE:
SOME ITEMS MAY
NOT BE USED

DUCTWORK	DAMPERS	GRILLES	ELECTRICAL & CONTROL	AC & VENTILATION EQUIPMENT	SYMBOLS	DUCT INSULATION	PIPEWORK INSULATION
DUCT (GENERAL SYMBOL) SUPPLY DUCT - VISIBLE SECTION SUPPLY DUCT - HIDDEN SECTION EX-HAUST DUCT - VISIBLE SECTION EX-HAUST DUCT - HIDDEN SECTION FLEXIBLE CONNECTION FLEXIBLE DUCT - CONNECTED TO MAIN DUCT WITH SPIGOT CONTAINING VOLUME CONTROL DAMPER. PROVIDE ACCESS PANELS IN CEILING WHERE REQUIRED TO BALANCE DAMPERS. FLEXIBLE DUCT BRANCH FITTING COMPLETE WITH R2.0 INSULATION & V.C.D IN EACH BRANCH TAKEOFF	BLADE DAMPERS VCD = VOLUME CONTROL DAMPER OBD = OPPOSED BLADE DAMPER NRD = NON-RETURN DAMPER VOLUME CONTROL DAMPER TO ALL BRANCH TAKEOFFS MOTORIZED DAMPER STREAM SPLITTER DAMPER DOUBLE SKIN TURNING VANES	SUPPLY AIR GRILLE SUPPLY AIR GRILLE BLANKED OFF IN DIRECTION SHOWN RETURN OR EXHAUST AIR GRILLE SIDEWALL DUCT OR WALL REGISTER COMPLETE WITH TURNING VANES OR OPPOSED BLADE DAMPER AS INDICATED DOOR GRILLE A - 600 x 200 B - 600 x 300 C - 600 x 450 D - 600 x 600	MECHANICAL SWITCHBOARD CONTROL PANEL MANUAL CONTROL SWITCH CONTROL SWITCHWIRE	FILTER INLINE DUCT MOUNTED FAN DUCT RISER TO FAN / COWL ON ROOF CEILING CASSETTE TYPE FAN COIL UNIT WALL MOUNTED INDOOR FAN COIL UNIT SIDE DISCHARGE OUTDOOR CONDENSING UNIT VERTICAL DISCHARGE VRV CONDENSING UNIT WALL MOUNTED EXHAUST FAN	GRILLE REFERENCE FAN COIL UNIT REFERENCE CONDENSING UNIT REFERENCE FAN REFERENCE CEILING ACCESS PANEL UNDERCUT DOOR 20mm MOTORIZED GLASS WINDOW REFERENCE	75mm EXTERNAL INSULATION 50mm INTERNAL & ACOUSTIC INSULATION 75mm INTERNAL & ACOUSTIC INSULATION 100mm INTERNAL & ACOUSTIC INSULATION FLEXIBLE DUCTWORK SERVING AIR CONDITIONING SUPPLY, RETURN AND RELIEF AIR SYSTEMS TO ACHIEVE AN R2.0 INSULATION RATING.	ALL A/C PIPEWORK GAS SUCTION LINES SERVING SYSTEMS EXCEEDING A 6kW RATED COOLING OR HEATING CAPACITY ARE TO BE INSULATED TO ACHIEVE A MINIMUM R1.2 R-VALUE. <ul style="list-style-type: none">25mm CSR 'ARMAFLEX' IS TO BE PROVIDED FOR PIPES UP TO 25mm N.B.32mm CSR 'ARMAFLEX' IS TO BE PROVIDED FOR PIPES >25mm N.B. SUCTION LINES FOR SYSTEMS WITH A COOLING OR HEATING CAPACITY >6kW AND ALL LIQUID LINES SHALL BE INSULATED TO ACHIEVE THE AIR CONDITIONING MANUFACTURERS MINIMUM RECOMMENDATIONS. DRAINAGE PIPEWORK REFRIGERANT PIPEWORK OVERFLOW GULLY TUNDISH

AIR CONDITIONING SCHEDULE

ACU REF. No.	ACUH1	ACUH2
SERVES	HALL	HALL
AIR FLOW L/s	2500	2500
OUTSIDE AIR L/s	0	0
TOTAL COOLING KW	467	467
SENSIBLE COOLING KW	38.8	38.8
HEATING CAPACITY KW	25.0	25.0
ELECTRICAL F.L.A.	32/27/27	32/27/27
CIRCUIT BREAKER	40A-3Ph	40A-3Ph
DIMENSIONS HxWxD	INDOOR 1635x1950x2225 OUTDOOR	1635x1950x2225
UNIT SELECTION	TEMPERZONE OPA465RKTBGH	TEMPERZONE OPA465RKTBGH
OPTIONS	FILTER, ECONOMY CYCLE & HOOD	FILTER, ECONOMY CYCLE & HOOD

AMBIENT CONDITIONS : SUMMER 37.6°C DB
23.3°C WB
WINTER 2.7°C

ROOM CONDITIONS : 22.5 +/-1.5 °C

- PACKAGE UNITS TO BE CONTROLLED VIA PUSH BUTTON TIMER. PUSH ONCE TO START, PUSH AGAIN TO STOP.
- ACUH1 & ACUH2 TO BE PROVIDED WITH ECONOMY CYCLE WITH RELIEF VIA DOORS.
- ACUH1 TO BE REVERSE HANDED.

NOTES - GENERAL MECHANICAL WORKS

- ALL DUCTWORK OTHER THAN EX-HAUST DUCTWORK NOT IN THE CONDITIONED SPACE SHALL BE EXTERNALLY INSULATED UNLESS INDICATED OTHERWISE.
- DUCTWORK DIMENSIONS SHOWN ARE CLEAR INTERNAL AIRWAYS DIMENSIONS.
- ALL RIGHT ANGLE BENDS SHALL BE FITTED WITH DOUBLE SKIN TURNING VANES.
- EQUIPMENT IS TO BE MOUNTED ON ANTI-VIBRATION MOUNTS AS SPECIFIED.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT FLOOR LAYOUTS & REFLECTED CEILING PLAN FOR FINAL LOCATION OF DIFFUSERS, GRILLES & ACCESS PANELS.
- THE MECHANICAL CONTRACTOR IS REQUIRED TO UNDERTAKE A FULL CO-ORDINATION OF MECHANICAL SERVICES INSTALLATIONS WITH THE BUILDING STRUCTURE AND OTHER SERVICES PRIOR TO THE COMMENCEMENT OF ANY BUILDING WORKS. TO DETERMINE AND CO-ORDINATE ALL MECHANICAL SPATIAL REQUIREMENTS FOR SYSTEMS.
- EQUIPMENT SHALL BE AS SPECIFIED. ALTERNATIVES ARE SUBJECT TO WRITTEN APPROVAL.
- THE ELECTRICAL TRADE IS TO PROVIDE A POWER SUPPLY TO EACH PACKAGE ACU. MECHANICAL TRADE IS TO MAKE CONNECTIONS & PROVIDE ALL OTHER POWER & CONTROL WIRING FOR THE SYSTEMS.
- THE ELECTRICAL TRADE IS TO PROVIDE A SHUNT TRIP RELAY ON THE SUPPLY TO THE AIR CONDITIONING TO SHUTDOWN THE AIR CONDITIONING IN THE EVENT OF A FIRE.

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Client
THE PARED FOUNDATION

Architect
CARROLL AND CARROLL ARCHITECTS

Project
ENCLOSE EXISTING COLA
WOLLEMI COLLEGE
GIPPS ST, WERRINGTON NSW 2747

Drawn : T.J.M. Design : B.HUNT
Scale @ A1 : N.T.S. Date : JUNE 2016

Discipline
MECHANICAL SERVICES

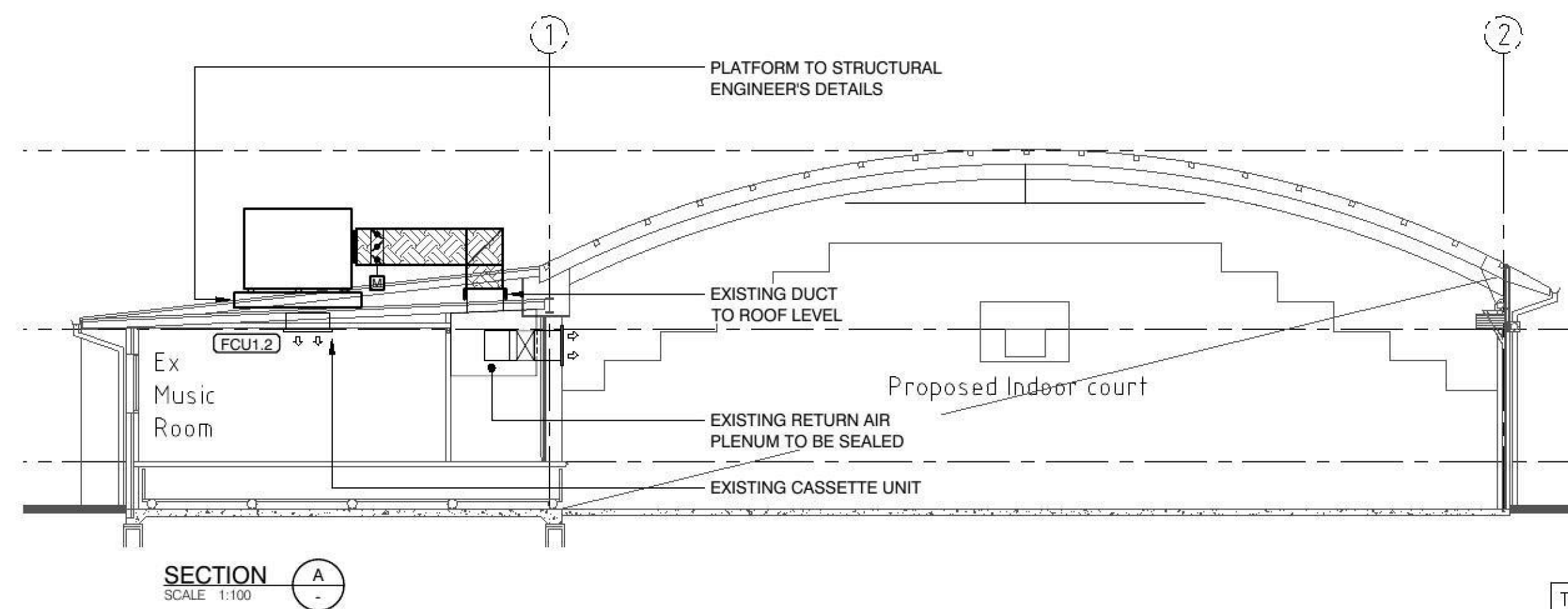
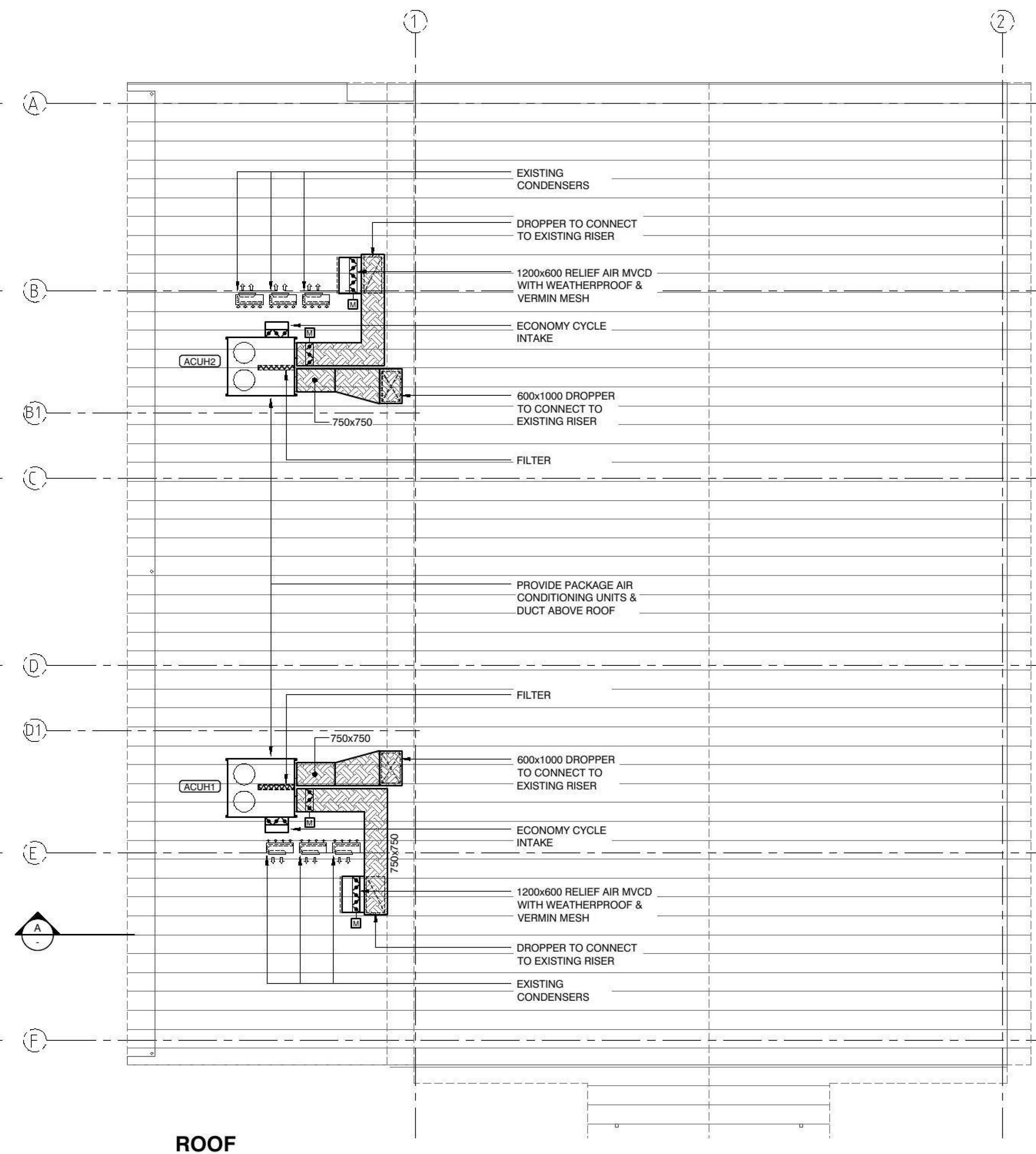
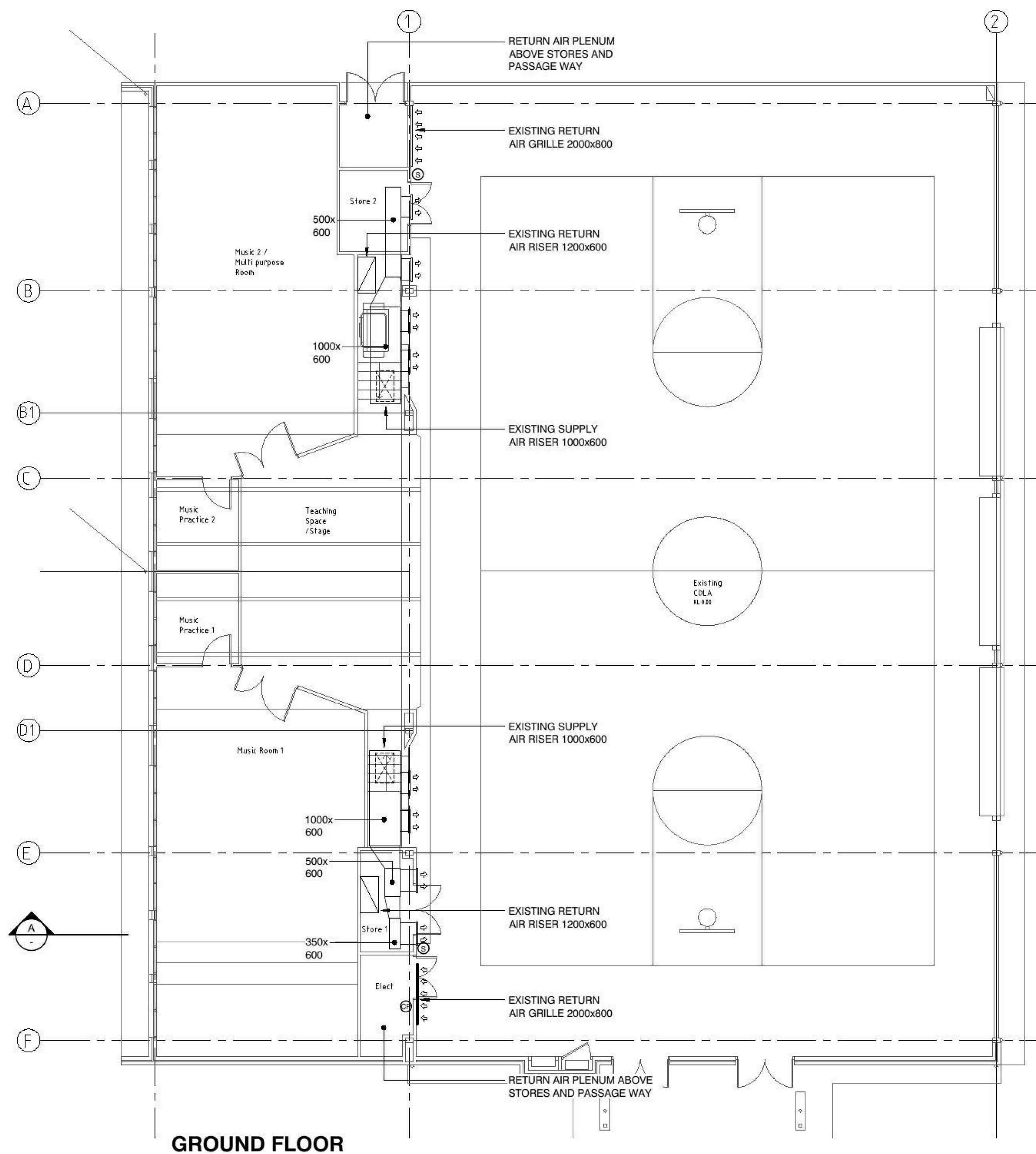
Drawing Title
LEGEND, NOTES &
SCHEDULES

Job No.
9336

Issue
1

Drawing No.
M-01

8.6.16 1 CONSTRUCTION CERTIFICATE ISSUE
Date Issue Reason for issue



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MARLINE NEWCASTLE PTY LTD
CONSULTING ENGINEERS
ELECTRICAL, MECHANICAL, HYDRAULICS, LIFT & FIRE
A.C.N. 098 976 946

UNIT 4, 239 KING STREET
NEWCASTLE, NSW 2300

PH: (02) 4925 9300
mail@marline.com.au

Client
THE PARED FOUNDATION

Architect
CARROLL AND CARROLL ARCHITECTS

Project
**ENCLOSE EXISTING COLA
WOLLEMI COLLEGE
GIPPS ST, WERRINGTON NSW 2747**

Drawn : J.C.	Design : B.HUNT	Verify : D.WHITE
Scale @ A1 :	1:100	Date : JUNE 2016
Discipline	MECHANICAL SERVICES	Job No.
Drawing Title	AIR CONDITIONING & VENTILATION LAYOUT	Issue
		1
		Drawing No.
		M-02

8.6.16 1 CONSTRUCTION CERTIFICATE ISSUE

Date	Issue	Reason for Issue
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Compliance Certificate – Design

Ref.: 8764-007-ccds

I certify that the item/s described below, if installed or carried out in accordance with the information contained in this certificate, including any referenced documentation, will comply with the Building Code of Australia.

Client to whom this Certificate has been Issued:

- PARED Foundation

Description of Component/s Certified

(Clearly describe the extent of work covered by this certificate)

- **Wollemi College – Enclosure of Existing COLA**
- Footings & Masonry
- Structural Steel Framing

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Basis of Certification

(Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice or other publications, were relied upon)

- Australian Standards: AS/NZS 1170.0, 1170.1, AS1163, AS3700, AS4100, AS/NZS4600, AS/NZS 1554.1,
- Building Code of Australia: BCA/NCC 2016

Referenced Documentation

(Clearly identify any relevant documentation, e.g. numbered structural engineering plans)

- Structural Drawings : 8764 sheets S101-A to S106-A inclusive

Conditions of Development Consent

(Specify DA number & Condition number)

- DA Number : -
- Conditions: -

Competent Person Details

Name : Stephen Healey
Firm : ECLIPSE Consulting Engineers Pty Ltd

Relevant Qualifications BE(Hons) MIEAust CPEng

Address : 304/12 Century Cct, Norwest Central, BAULKHAM HILLS NSW 2153
Phone : (02) 9894 8500
Facsimile : (02) 8850 0212

Registration/ Accreditation Details : MIEAust CPEng NPER3 (Structural & Civil) RPEQ RBPVic RBPNT IEAust 25662, RPEQ 5546

Signature :



Date : 05 July 2016

MARLINE NEWCASTLE PTY. LIMITED

Managing Director Brian Hunt, BE, MBA, MIEAust
Associate Director Keld Hoyer
Associate Director Brendan Maher



ABN 92 902 545 497

ACN 098 976 946

Thursday, 9 June 2016
Ref No: MN9336

Penrith City Council
PO Box 60
PENRITH NSW 2751

Attention: Manager

Dear Sir/Madam,

**RE: Wollemi College - Enclosure of COLA
CERTIFICATE OF DESIGN – ELECTRICAL SERVICES**

SUBJECT PREMISES:

Pursuant to the provisions of **Clause A2.2 of the Building Code of Australia**, I hereby certify that the above design is in accordance with normal engineering practice and meets the requirements of the Building Code of Australia, Part 7 of the Environmental Planning and Assessment Regulations, relevant Australian Standards and relevant conditions of Development Consent. In particular the design is in accordance with the following:

Emergency Lighting	BCA 2015 Clause E4.4 & AS/NZS 2293.1 – 2005
Exit Signs	BCA 2015 Clauses E4.5, E4.6 and E4.8 and AS/NZS 2293.1 – 2005
General Lighting	AS1680.1, AS1680.2.1, AS1680.2.2 & AS1680.2.3
Wiring Rules	AS/NZS 3000 – 2007
Fire Detection	BCA 2015 Clause E2.2 and AS 1670
Energy Efficiency:	
- Application of part	BCA 2015 Clause J6.1
- Artificial lighting	BCA 2015 Clause J6.2
- Interior artificial lighting and power control	BCA 2015 Clause J6.3

OR IF DRAWINGS ARE TO BE LISTED

I am an appropriately qualified and competent person in this area and as such can certify that the design and performance of the design systems comply with the above and which are detailed on the following drawings.

E0-1	LEGEND, NOTES & DRAWING SCHEDULE
E0-2	POWER & COMMS LAYOUT
E0-3	LIGHTING & SECURITY LAYOUT
E0-4	SINGLE LINE DIAGRAM & BLOCK DIAGRAMS ELECTRICAL SPECIFICATION

Marline Newcastle possesses Indemnity Insurance to the satisfaction of the building owner.

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Subject to the conditions outlined in the consent



Full Name of Designer: Fred Pentecost
Qualifications: BEng (Electrical), MDesSc (Building Services), NPER
Address of Designer: 4/239 King Street Newcastle NSW 2300
Business Telephone No: 02 4925 9300 **Fax No:** 02 4926 3811
Name of Employer: Marline Newcastle Pty Ltd

Signature:

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CITY COUNCIL

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MARLINE NEWCASTLE PTY. LIMITED

Managing Director Brian Hunt, BE, MBA, MIEAust
Associate Director Keld Hoyer
Associate Director Brendan Maher



ABN 92 902 545 497

ACN 098 976 946

9 June 2016
Ref No: MN9336

Penrith City Council
PO Box 60
PENRITH NSW 2751

Attention: Manager

Dear Sir/Madam,

**RE: Wollemi College - Enclosure of COLA
CERTIFICATE OF DESIGN – HYDRAULIC SERVICES**

SUBJECT PREMISES:

Pursuant to the provisions of **Clause A2.2 of the Building Code of Australia**, I hereby certify that the above design is in accordance with normal engineering practice and meets the requirements of the Building Code of Australia, Part 7 of the Environmental Planning and Assessment Regulations, relevant Australian Standards and relevant conditions of Development Consent. In particular the design is in accordance with the following:

Fire Hose Reels

BCA 2015 Clause E1.4 and AS 2441 – 2005

Fire Hydrant Systems

BCA 2015 Clause E1.3 and AS 2419.1 – 2005

I am an appropriately qualified and competent person in this area and as such can certify that the design and performance of the design systems will comply with the above.

OR IF DRAWINGS ARE TO BE LISTED

I am an appropriately qualified and competent person in this area and as such can certify that the design and performance of the design systems comply with the above and which are detailed on the following drawings.

H0-1 LEGEND, NOTES & DETAILS

H0-2 SITE SERVICES AND FIRE HYDRANT HOSE REEL LAYOUTS
HYDRAULIC SPECIFICATION

Marline Newcastle possesses Indemnity Insurance to the satisfaction of the building owner.

Full Name of Designer: Brendan Maher

Qualifications: Ass.Dip.Eng

Address of Designer: 4/239 King Street Newcastle NSW 2300

Business Telephone No: 02 4925 9300

Fax No: 02 4926 3811

Name of Employer: Marline Newcastle Pty Ltd

Signature:



MARLINE NEWCASTLE PTY. LIMITED

Managing Director Brian Hunt, BE, MBA, MIEAust
Associate Director Keld Hoyer
Associate Director Brendan Maher



ABN 92 902 545 497

ACN 098 976 946

Thursday, 9 June 2016

Ref No: MN9336

Penrith City Council
PO Box 60
PENRITH NSW 2751

Attention: Manager

Dear Sir/Madam,

**RE: Wollemi College - Enclosure of COLA
CERTIFICATE OF DESIGN – MECHANICAL SERVICES**

SUBJECT PREMISES:

Pursuant to the provisions of **Clause A2.2 of the Building Code of Australia**, I hereby certify that the above design is in accordance with normal engineering practice and meets the requirements of the Building Code of Australia, Part 7 of the Environmental Planning and Assessment Regulations, relevant Australian Standards and relevant conditions of Development Consent. In particular the design is in accordance with the following:

**Smoke Hazard Management
(automatic shutdown)**

**BCA 2015 Clause E2.2
AS 1668.1 – 1998**

Ventilation:

- Ventilation of rooms
- Natural ventilation
- Mechanical ventilation

**BCA 2015 Clause F4.5
BCA 2015 Clauses F4.6 and F4.7
AS 1668.2 – 2012**

Energy Efficiency:

- Air conditioning systems
- Mechanical ventilation systems
- Miscellaneous exhaust systems
- Facilities for energy monitoring

**BCA 2015 Clause J5.2
BCA 2015 Clause J5.3
BCA 2015 Clause J5.4
BCA 2015 Clause J8.3**

I am an appropriately qualified and competent person in this area and as such can certify that the design and performance of the design systems comply with the above and which are detailed on the following drawings.

M0-1 LEGEND, NOTES & SCHEDULES
M0-2 AIR CONDITIONING & VENTILATION LAYOUT

Marline Newcastle possesses Indemnity Insurance to the satisfaction of the building owner.





Full Name of Designer: Brian Hunt
Qualifications: BE
Address of Designer: 4/239 King Street Newcastle NSW 2300
Business Telephone No: 02 4925 9300 **Fax No:** 02 4926 3811
Name of Employer: Marline Newcastle Pty Ltd

Signature: 

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