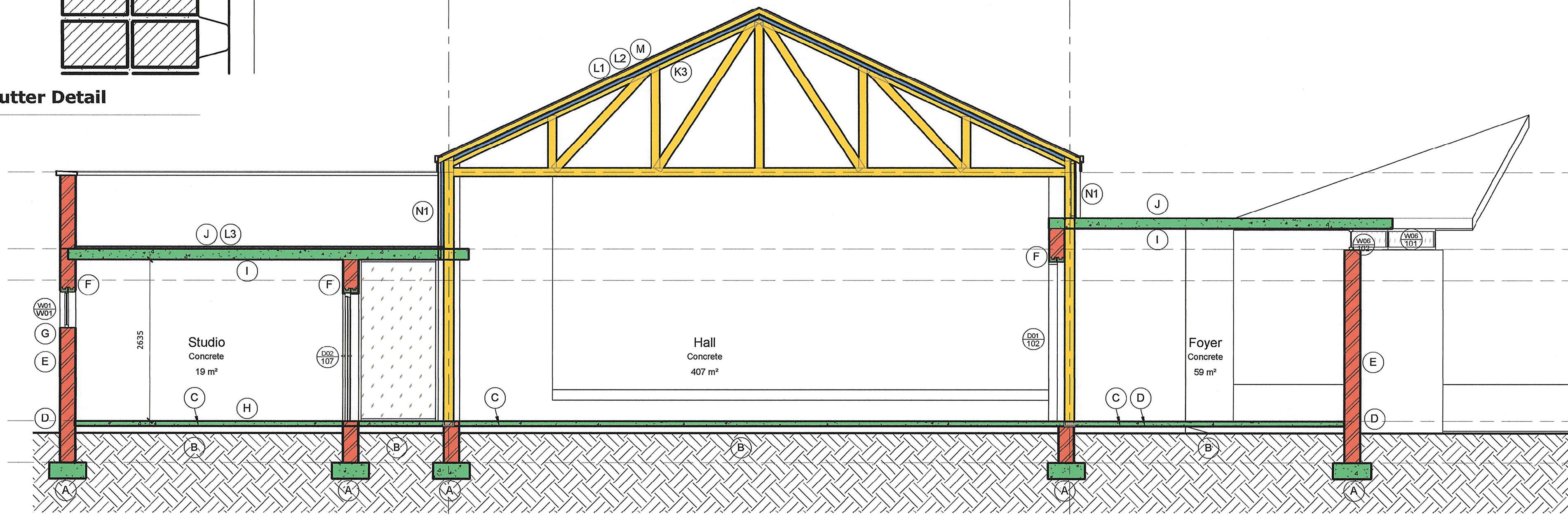


Roof Gutter Detail

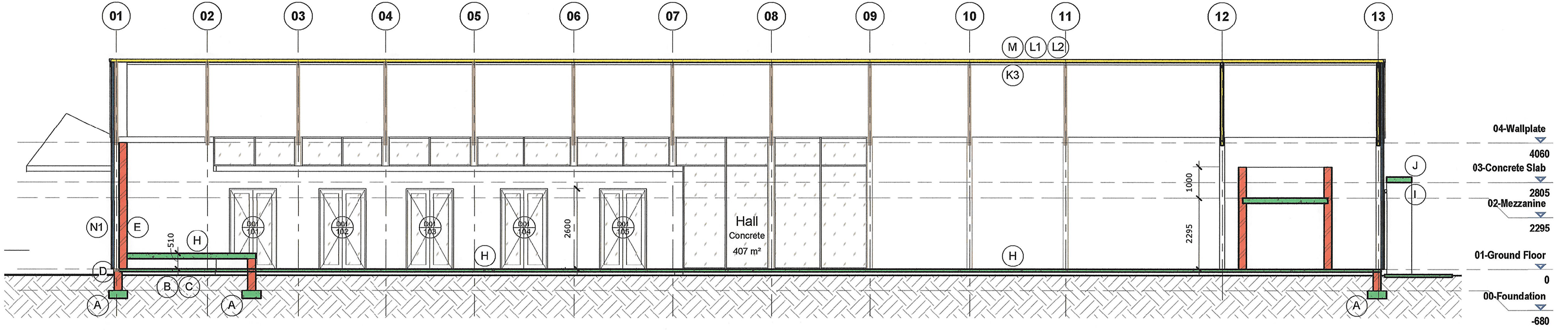
1 : 5



- (A) **strip foundations:** 600 x 230 min. strip foundation footing according to engineer specifications for (2300mm Walls). Remove all plant matter from the trenches before pouring any concrete. L.L. of trenches to be no less than 500mm below n.g.l. at any point along the length of the trench.
- (B) **back filling:** G5 or similar soil material to be used for backfilling, compacted in maximum 150mm moistened layers to 93% Mod KASHTO. Soil and back filling material to be treated against ants and termites.
- (C) **damp proof membrane:** Gundle® API A.T USB Green 3 layer 250µm damp proof membrane under concrete surface beds conforming to (SANS 952-1:2011 Type C) laid with minimum 150mm overlaps and sealed with Guplas pressure sensitive tape.
- (D) **damp proof course:** Gundle® API A.T Brickgrip 3 layer 250µm damp proof course placed along the length of the wall, conforming to SANS 952-1:2011 laid with minimum 150mm overlaps and sealed with Guplas pressure sensitive tape.
- (E) **masonry walls:** Stock brick, as per client, laid in stretcher bond. All bricks to be made wet before being placed. Place 150mm brick force for double skin walls and 75mm brick force for single skin walls at every 4 courses in the super-structure. Place brick force for 3 consecutive courses above all windows, doors and any other openings in walls. Provide brick force at every 2 courses in the sub-structure. Stock bricks to be plastered with one coat mortar plaster of minimum 10mm thickness and finished with wet wooden float. Apply one coat of universal base coat and two coats final colour paint coat. All to match existing.
- (F) **lintels:** pre-stressed reinforced concrete lintels to be built-in directly above all openings in masonry walls with a minimum 200mm overlap at both ends. All products used and installation work as approved by SANS 10400. Plaster and paint to match existing.
- (G) **window sills:** stock brick, brick-on-edge window sill with dpc installed the full length thereof, as seen on sections. Refer to dpc note for specifications thereof. Plastered and painted to match existing.
- (H) **concrete slab:** Reinforced concrete slab as per engineer specification and details. Structural engineer to inspect shuttering and rebar before placing of concrete can commence.
- (I) **concrete slab soffit:** Off shutter concrete slab soffit, remove pour burr/bleeding and sand with grit rub brick.
- (J) **concrete slab waterproofing:** One layer Derbigum SP4 waterproofing membrane, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and cross falls by 'torch fusion'. Waterproofing to be installed by an Approved Derbigum Contractor under a ten year guarantee.
- (K1) **ceiling type 1:** Marley Building Systems' Sinat skimmed ceiling system with 6.4mm thick square edge skimmed plasterboard, fixed at right angles to 35mm concealed false suspended ceiling grid system with 24 x 35mm high galvanized steel knurled capped main tees at 1200mm centres and cross tees at 400mm centres, using 25mm drywall screws at 150mm centres, all joints to be taped, plasterboard plastered using Sinat skimming plaster and prepared for decoration. Ceiling perimeter to be finished using 25 x 19mm x 15mm shadow line angle, all in accordance with SABISA (South African Building Interior Systems Association) installation guidelines.
- (K2) **ceiling type 2:** Lay Gyproc Gyproc® White 600mm x 600mm ceiling tile into the Gyfframe™/DONN ceiling grid. Ceiling grid consisting of Gyproc/DONN Wall Angle (SM25/M6) fixed to the perimeter wall using fixings at 300mm centres. Space Gyfframe™/DONN Main Tees T38 FR at 1200mm centres. Suspend main tees using Gyproc Pre-stretched Galvanized Hanger wire 2.5mm thick or Gyproc hanger strap 19mm at 1200mm centres. Gyproc Pre-stretched Galvanized Hanger wire shall be put through the main tees hole and would wind 3 times around itself. 2 steel pop-rivets or one Gyproc Wafer Head Tok screw 13mm shall be used to fix the hanger strap to the main tees web. Install Gyfframe™/DONN Cross Tees T38V/T32V (1200 long) at 600mm centres to create a 1200mm x 600mm ceiling grid. Install Gyfframe™/DONN Cross Tees T38V/T32 (600 long) into the 1200mm long cross tees to create a 600mm x 600mm grid. Main tee should be fixed to the wall using angle cleats.
 - Ceiling System: Gyproc Exposed Ceiling System Gyproc® White 600 x 600mm
 - Ceiling Grid: exposed ceiling grid.
- (K3) **ceiling type 3 (Acoustic):** Gyptone™ BIG Quattro 41 (ISO 9001 Ramp; 14001 certification) fixed to Gyfframe® D32K Cross Tee (Locally manufactured recycled content ISO 9001 Ramp; 14001 certification) using Gyproc Strap-joint Screws 25mm at maximum 150mm centres. Gyfframe® D37K Main Tee installed at 1200mm centres and suspended using Gyproc Galvanized Angle 25mm x 25mm hangers at 1200mm centres. Gyfframe® D32K Cross Tee at 600mm centres. Hanger to be maximum 400mm from perimeter wall. Apply Gyproc RhinoTape® to all joints. Cover Gyproc RhinoTape® with 2 coats of Gyproc RhinoGlide® (locally manufactured). Install Gyfframe® Corner Board to all external corners. Gyproc Plaster Trim 12.5mm (locally manufactured) to the wall using fixings at 300mm centres. Install 50mm thick non-combustible lightweight Enerlytic Glasswool insulation blanket/batts for improved acoustic performance. Install in accordance with the manufacturers detail and specification. Ceiling System: Gyproc Acoustic Ceiling System (Board) Gyptone™ Big Quattro 41
 - Ceiling Grid: concealed ceiling grid
 - Climatic zone: Zone 2
 - R-value: 2.88m² K/W
 - Thermal conductivity: 0.04 W/m²/K
- (K4) **ceiling type 3 (sheeting):** Safintra 0.58mm thick 762mm cover Classlor® Corrugated Fish Eagle White CHROMEDEK PLUS® roof sheeting, fixed to steel purlins at 1700mm centres and eaves and end-span purlins at 1200mm centres (final spacing to be calculated by an engineer) using Fixite® self tapping fasteners or Safintra approved fasteners with EPDM seals. Purlin fixed with three fasteners per sheet on intermediate purlins and five fasteners per sheet at sheet ends. Side laps to be secured using Fixite® stitching fasteners or Safintra approved fasteners at centres not exceeding 500mm and sealed with Butyl tape with minimum 225mm end laps, all in accordance with the manufacturer's recommendations.
 - Installation region: Inland
 - Atmospheric corrosion category: C3.

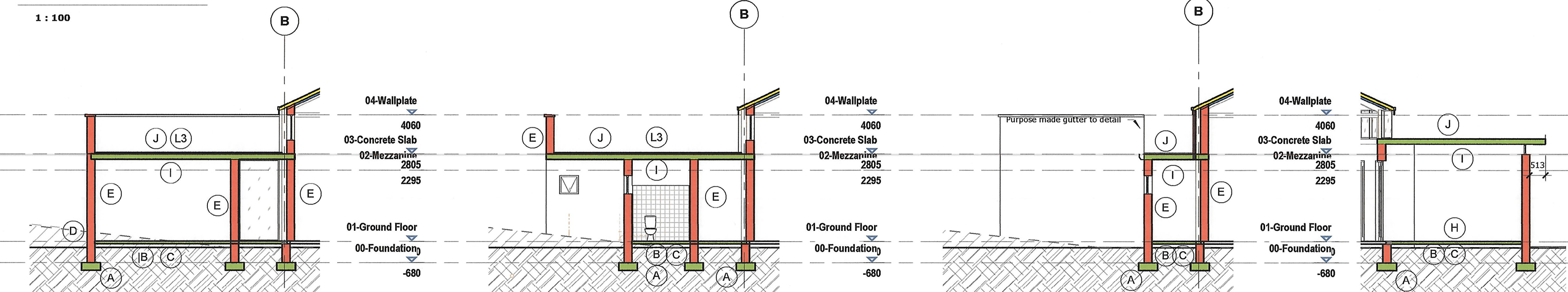
C_300 - Section A

1 : 50



C_300 - Section B

1 : 100



C_300 - Section C

1 : 100

C_300 - Section D

1 : 100

C_300 - Section E

1 : 100

C_300 - Section F

1 : 100

- (L1) **roof insulation type 1:** Sisulast® FR 405 1983 double sided reflective foil laminate reinforced membrane (vapour barrier), Classification A complying with SANS 1381-4:2013, Fire Rating in accordance with SANS 428.
- (L2) **roof insulation type 2:** Isover 115mm thick Aerolite non-combustible light weight fibreglass Glasswool thermal ceiling insulation (Code: 11315) closely fitted with ends butted firmly between tie beams and laid loose on top of bracing between roof timbers, all in accordance with manufacturer's recommendations.
 - Climatic zone: Zone 2
 - R-value: 3.88m² K/W
 - Thermal conductivity: 0.04 W/m²/K.
- (L3) **roof insulation type 3:** 40mm Lambdaboard® laminated Polyisocyanurate core board with Mineral natural facing on one side, laminated both sides, but jointed and fastened to the slab using suitable adhesive as per manufacturer's instruction.
 - Application: directly under waterproofing membrane
 - Board width: 1220mm
 - Board thickness: 40mm
 - Board facing: Mineral natural
 - R-value: 1.67
 - Core density: 34kg/m³.
- (M) **roof covering 1:** Safintra 0.58mm thick 762mm cover Classlor® Corrugated ZINCALUME® roof sheeting, fixed to steel purlins at 1400mm centres and eaves and end-span purlins at 1100mm centres (final spacing to be calculated by an engineer) using Fixite® self tapping fasteners or Safintra approved fasteners with EPDM seals. Purlin fixed with three fasteners per sheet on intermediate purlins and five fasteners per sheet at sheet ends. Side laps to be secured using Fixite® stitching fasteners or Safintra approved fasteners at centres not exceeding 500mm and sealed with Butyl tape with minimum 230mm end laps sealed with a double row of Butyl tape, all in accordance with the manufacturer's recommendations.
 - Installation region: Inland
 - Atmospheric corrosion category: C3
- (N1) **vertical cladding 1:** Safintra 0.58mm thick 762mm cover Classlor® Corrugated ZINCALUME® roof sheeting, fixed to steel sheet rails at 2400mm centres and top rails at 2200mm centres (final spacing to be calculated by an engineer) using Hewlett® clips secured to sheet rails with Fixite® or Safintra approved wafer head self-tapping fasteners, all in accordance with the manufacturer's recommendations.
 - Installation region: Inland - heavy Industrial
 - Atmospheric corrosion category: C3.
- (N2) **vertical cladding 2 (Translucent sheeting):** Klip Lock 700 1.2mm thick 700mm interlocking side cladding, fixed to steel sheet rails at 2800mm centres and top rails at 2600mm centres (final spacing to be calculated by an engineer) using clips secured to sheet rails with Klip Lock approved wafer head self-tapping fasteners, all in accordance with the manufacturer's recommendations.
 - Installation region: Inland
 - Atmospheric corrosion category: C3.
- (P) **facia board:** Everite medium density plain ungrooved Itotec fascia boards (Code: 41-203), size 150 x 12mm, fixed to timber rafters twice screwed with 12 x 40mm counter-sunk brass screws with minimum fascia joining plate between boards and aluminum H-profile fascia corner joiners at board ends.
- (Q) **paving:** Infraset Cottage Stone® 25MPa non-interlocking Grey concrete paving blocks (smooth face up), 200 x 150 x 50mm thick, laid accordance with SANS 1200 M3 and CMA Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy 1. Paving to be inspected and re-sanded after 24 hours.
- (R) **gutters and downpipes:** Purpose-made Chromadek seamless gutter, overall size to detail dimensions coated internally and externally in colour to match roof sheeting including cut and mitred angles covered with mitre strip externally, stop ends capped and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 2.5mm Australian hanger brackets at 600mm centres using aluminium peened rivets, with Chromadek downpipe in colour to match roof sheeting fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riveted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc.

COPYRIGHT RESERVED

COPYRIGHT NOTICE
 COPYRIGHT © 2020-LAD Architects
 Copyright subsists in this drawing. The person or entity whose name appears in the title block of this drawing, is hereby granted a non-exclusive licence to use, display, print and/or reproduce this drawing to the extent necessary to carry out and complete the project described in the title block of this drawing. The licence in respect of the copyright is expressly limited as aforesaid and the person and/or entity referred to above shall not be entitled to grant sub-licences in respect of the copyright in this drawing to any other entity. This licence confers no ownership rights in the copyright vesting in the drawing and this drawing and the copyright subsisting therein will, at all times, remain the property of LAD cc. Any unauthorised reproduction, publication, transmission, adaptation and/or inclusion of this drawing in a cinematograph film or television broadcast is an act of copyright infringement which will render the doer of the act liable for civil law copyright infringement and may in certain circumstances render the doer liable for criminal law copyright infringement.

- GENERAL NOTES:**
1. Check all measurements, levels and details on site before commencement with work.
 2. Refer any discrepancies to architect.
 3. All work to be done in accordance with SABS 10400.
 4. Nothing to be scaled from drawings, request measurements from architect.
 5. Architects & Engineer's drawings to be read together.
 6. Drawing to be used for intension as mentioned in Drawing description.

Amendment Schedule			
issue	number	date	amendment
	A	2024/14	Issued for Construction



LAD Architects
 Profico Building
 23 Corridor Crescent
 Route N4 Business Park
 Ben Fleur Ext 11

P.O. Box 543, Emalahleni, 1005
 Tel: 013-656 6321 / 653 8305
 Fax: 013-653 6322 / 0866 024 012
 e-mail: admin@lad-arch.com

P.J. Labuschagne, SACAP Pr.Arch 6254

PROJECT
 Proposed Alterations & Additions to Taung Skull Heritage Site: (SDP) BLDNG 4 Multipurpose Hall

ADDRESS
 Taung, North-West

CLIENT
 North West Department: Economic Development, Environment, Conservation and Tourism

DRAWING DESCRIPTION		DRAWING NUMBER	
Sections		C_300 - A1	
DESIGN	COUNCIL	CONSTRUCTION	
DRAWN BY: TVL	ISSUE: B	DATE: 2022/11/07	