

Ekurhuleni East College

Finishing Schedule Wellness Centre

| | |
|---------------------|---|
| PROJECT: | COLLEGE EKURHULENI EAST - WELLNESS CENTRE |
| DATE: | 2020-11-12 |
| JOB NO.: | 2019_59 |
| DRAWING NO.: | 0-800 |
| REVISION: | 1 |
| ISSUED FOR: | Tender |
| CREATED BY: | YV |

General preambles:

1. TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and **approved** alternatives.
2. **Samples - With reference to all items and colour schemes: Samples of all items are to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates of site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.**
3. Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.
4. Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)
5. Furniture and Fittings – Refer to Document 0-802 Addendum B for these specifications
6. Note: finishes schedule to be read in conjunction with floor plans , elevations , sections , door schedules , window and shopfront schedules , sanitary fitting schedules and baseline specification schedule
7. TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and **approved** alternatives.

1. Exterior Finishes

A01. Steel metal roof and side cladding:

Ruukki Classic Silence steel roof – to be installed at per manufacturers specifications

A02. Trafficable waterproofing:

Waterproofing to exposed concrete roofs (to Engineer's detail) with bituminous aluminum paint finish and stone. Apply one coat a.b.e. bituprime to all surfaces including all verges and around outlets and protrusions on screed to fall. Screed to have a minimum thickness of 25mm.

Apply one layer of a.b.e. 4mm abegum dual reinforced waterproofing membrane, fully bonded by means of "torch fusion", with 75mm side laps and 100mm end laps. Apply one coat of a.b.e silvakote bituminous aluminium protective coating.
Flashing strip 150mm girth at turn-ups using a.b.e. super laycrl.

Dress surface evenly with 19mm washed crushed stone dressing to a depth of 50mm in accordance with waterproofing manufacturer's specification.

Flood tests to be done on completion in workman like manner.

A03. External plaster and paint finish (smooth):

Plaster mix for approved rough brick / concrete walls, composed of 1 part cement and 6 parts sand, +/- 12mm thick finished with a wood float to receive high quality paint / wall coating. All to cover surface sufficiently.

Finish with Plascon Wall & All to exterior new cement plaster (NW 100) - strictly according to manufacturer's specification. Surface to

be dry, sound and clean and cured for a minimum of 14 days. Prime with one coat of Plascon Primer (UC56) with an over coating time of 16 hours and finish with two coats of Wall & All (WAA 1) with minimum 2 hours drying time between coats. Colours to Architect's approval.

A04. Window cills (External):

Modcon Concrete Solutions precast concrete window sill (Type: 005), overall size 160 x 110mm high, bedded and jointed in Class II mortar and pointed on all exposed faces. Complete with damp proof course installed to manufacturer's specification

A05. Steel roof structure

Plascon Glatex 8 to exterior new mild steel.

Surface to be clean and dry. Remove surface contaminants using Metalcare Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Glatex 8 Metal Primer (PL 3) with an over coating time of 8 hours and finish with two coats Glatex 8 (PL) with 16 hours drying time between coats, for a maintenance cycle of 10 years.

A06. Paving:

To match existing paving to Architects approval

A07. Windows:

Purpose-made aluminium frame windows and glazing as per window schedule

A08. Doors:

All doors and ironmongery as per door schedule

A09. Exposed steelwork/ Entrance canopy:

Purpose made mild steel elements complete with fixing brackets and columns . Priming For metal, a coat of Upox Primer mixed with Hardener should be applied. Primer should not be sanded due to lead content.. Apply 2-3 heavy coats of U-pox Enamel mixed with Hardener, allowing 24 hours drying time between all coats. FINISH Gloss APPLICATION By brush or spray. Plascon Upox Enamel should be mixed with Hardener in the ratio of 3 parts to 1 part Hardener by volume. Upox Clear should be mixed with Hardener in the ratio of 3 parts clear to 1 parts Hardener by volume Colour to Architects approval.

A10. Clearvu fencing:

Cochrane ClearVu high density anti-climbing and anti-cut pressed mesh panel fencing 2,1m high, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile wires galvanised with alu-galv coating with aperture size 76,2mm x 12,7mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to 85 - 45mm Taper locking post 2,7m high including Locking Recess Mechanism at 3,382m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep.

A11. Concrete apron:

In-situ concrete apron/ storm water channel to dimensions as shown on plan, complete with falls. All to Civil Engineer's detail design.

A12. Roof flashing, Downpipes, Gutters :

All to the sheeting specialist specifications.

2. Interior

B01. Sports Flooring:

Gerflor Taraflex Multi-use vinyl flooring , spread according to manufacturer's recommendations on suitably prepared subfloor (as per annotation B01) with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg three section metal roller on completion. Colours to Architects approval.

NOTE:

- a) Where applicable, all expansion joints in screed to be covered with Gerflor expansion joint cover strip, installed in accordance with manufacturer's specifications. - Strip and welding rod colours to Architects approval.
- b) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip cast into screed at position as indicated on detail drawing (flush with floor finish).
- c) Skirting to be similar to floor taken 200mm up against the wall, complete with Gerflor vinyl capping strip size 6 x 35mm high (colour to Architect's approval, fixed with Gerflor solvent based contact adhesive, spread with a brush onto both material and working surface, all in accordance with manufacturer's specifications.

B02. Sports Flooring (weights and studios):

Gerflor *GTI Max Connect* flooring (multi-layered interlocking loose lay vinyl tile with polyurethane treatment (PUR+), 6 mm thick with a dovetail joint, abrasion group), spread according to manufacturer's recommendations on suitably prepared subfloor (as per annotation B01) with a hygrometer reading.. Colours to Architects approval.

NOTE:

- a) Where applicable, all expansion joints in screed to be covered with Gerflor expansion joint cover strip, installed in accordance with manufacturer's specifications. - Strip and welding rod colours to Architects approval.
- b) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip cast into screed at position as indicated on detail drawing (flush with floor finish).

- c) Skirting to be similar to floor taken 200mm up against the wall, complete with Gerflor vinyl capping strip size 6 x 35mm high (colour to Architect's approval, fixed with Gerflor solvent based contact adhesive, spread with a brush onto both material and working surface, all in accordance with manufacturer's specifications.

B03. General Flooring (circulation and offices, yoga studio):

Gerflor *Virtuo 55* Clic flooring , installed according to manufacturer's recommendations on suitably prepared subfloor (as per annotation B01) with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg three section metal roller on completion. Colours to Architects approval.

NOTE:

- a) Where applicable, all expansion joints in screed to be covered with Gerflor expansion joint cover strip, installed in accordance with manufacturer's specifications. - Strip and welding rod colours to Architects approval.
- b) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip cast into screed at position as indicated on detail drawing (flush with floor finish).
- c) Skirting to be similar to floor taken 200mm up against the wall, complete with Gerflor vinyl capping strip size 6 x 35mm high (colour to Architect's approval, fixed with Gerflor solvent based contact adhesive, spread with a brush onto both material and working surface, all in accordance with manufacturer's specifications.

B04. Screed Floor:

± 30mm Thick Untinted cement screed with or without falls on concrete surface bed as by Engineer finished with a power float finish. The Surface should be free of oil, grease and other contaminants and loose dust and acid etching. Oil and grease must be completely removed with Pro-Struct Degreaser Type 106 or 109 and allowed to dry thoroughly. Apply three or more coats of

Pro-Struct (011-254 5500) Floor Hardener Type 541 to ensure a universal substrate, allowing a maximum of three hours between coats - installed by an approved applicator, strictly to manufacturer's specifications.
Pre-approve sample.

NOTE:

- a) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip cast into screed at position as indicated on detail drawing (flush with floor finish).
- b) Skirting to be 100mm high coved grano skirting

B05. Non – Slip Ceramic Tile :

- a) 300 x 300mm ; Ceramic Glazed floor tiles shall be of 1st quality and shall conform to IS :13755. The surface of tiles and components can be smooth, profiled, decorated or finished, glossy, matt or semi-matt (anti skid) as indicated. The tiles shall be flat true to shape, sound and free from flaws and other manufacturing defects. The top surface of the tiles shall be glazed. The underside of the tiles shall be free from glaze in order that the tiles may adhere properly to the base. The glaze shall be uniform in quality and shall be free from welts, chips, craze, crawling or other imperfections, detracting from appearance when viewed at a distance of one meter. The texture and colour of tiles shall be as indicated. Tiles shall be of sizes as indicated. If not indicated size of tile shall be 300mm x 300 mm. The thickness shall be as specified by the manufacturer but in no case it shall be less than 6.5mm.
- b) Prepare 40mm thick cement screed to Class 2 floor spec with moisture content not to exceed 4%, to receive waterproofing and new full bodied porcelain tiles laid to pattern as per architect's layout. To be laid in strict accordance with the manufacturer's specifications. To comply generally with the requirements of EN 10545-1 to 14 and as per SANS 10107: 2011 – Edition 3. **Waterproofing:** DERBIGUM SYLBOND TS200 self-adhesive waterproofing membrane applied in strict accordance with manufacturers specifications. **Adhesive System:** 6mm thick TAL GOLD STAR 6 rapid-setting adhesive applied to surface beds with notched trowel/6mm thick TAL Gold Star 6 rapid-setting adhesive

mixed with TAL BOND applied to suspended slabs with notched trowel. All in strict accordance with manufacturer's specifications. **Grouting:** TAL INDUSTRIAL FINE EPOXY Grout applied in strict accordance with manufacturer's specifications. Joints between tiles to be minimum of 3mm. Colour: Grey/Dove Grey (Provide Sample for Architect's approval). **Movement joints** to be provided in both directions at maximum 5m centres for surface beds and at maximum 3m centres for suspended slabs as indicated on Architect's layouts & expansion joints as per Engineers layouts. Movement joints to be located around the perimeter of all floors and around fixtures. Joints to be 5mm wide and extend through the adhesive and tile layer. Joints to be filled with TAL SEALMASTER backing cord and sealed with TAL GOLD STAR SEALMASTER 1000 polyurethane resilient joint sealant. Provide Sample panel for Architect's approval.

- c) 100mm Skirting to Match floor Tile. Colour: TBC. All by specialist installer. Sample to be provided for Architect's approval.

B06. Plaster and Paint (Internal)

Plaster - One coat 1:5 cement plaster finished with steel trowel to a smooth surface to receive paint.

Paint - Plascon Wall & All to exterior new cement plaster. Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats Wall & All (Colour to Architect Specification) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.

B07. Window cills (Internal)

Plastered and painted (as per annotation B07) with rounded edge, except where tiles are specified on walls. For tiled walls, window cill to be similar tiles cut to fit cill. Tiles and grouting to match walls

B08. Ceilings – Isoboard (nail up)

To be installed as per manufacturer to underside of truss.

IsoBoard board lengths to run from wall to wall: secure the board positively using screws and adhesive to fix to perimeter bandering on the board's ends, and concealed fastening clips and adhesive to fix the board to the central bandering. Remember, the IsoBoard will last as long as the building stands, with no drop off in design performance, so proper installation is vital.

To anticipate using cover strips where butt joints are necessary, and always ensure the joint occurs over bandering, to secure the board ends, and have a firm support for the cover strip to be fixed to.

B09. Concrete ceilings:

Apply ± 12 mm thick cement plaster 1:4 mixture to ceilings (R.C. slab & beams) in one operation with steel trowel. Smooth and prepare surfaces and remove all loose material, and rinse. Apply flexible crack filler to holes and cracks and finish as per annotation I07. Colour to Client's approval.

B10. Suspended ceilings (1200 X 600 GYPREX):

BPB Gypsum DonnCeill White vinyl finished gypsum ceiling tiles size 1200 x 600mm x 12,5mm thick, laminated to 55mm thick glasswool insulation, laid on and including SQ/T38 White powder coated main tees, cross tees, hold-down clips, wedges, etc., all suspended with galvanized hangers at hanger centers not exceeding 1200mm. All strictly in accordance with the manufacturer's specifications and recommendations. Colour white.

Cornice: BPB gypsum 47 x 35mm SM25 plugged recessed shadowline cornice. Installed strictly to manufacturer's specifications against wall or plastered ceiling bulkheads to detail elsewhere.

B11. Plastered ceilings and bulkheads:

GYPROC RhinoCeil Prestige J flush jointed ceiling 9,5mm thick Taper-edge Rhinoboard fixed print side up and screwed to Donn T37K galvanised steel capped tee flush plastered ceiling suspension system with drywall screws spaced at 150mm centres, including galvanised main tees at 1200mm centres and cross tees at 500mm centres, all suspended with 25 x 25mm galvanised

angles at not exceeding 1200mm centres, all fixed to trusses at centres. Joints to be taped and finished as per manufacturer's instructions complete with SABISA certificate. Prepare surfaces and remove all loose material. Apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20% and one coat PLASCON Wall & All Pure Acrylic paint to new plaster board ceilings to cover surface sufficiently. Colours to Architect's approval. Also refer to Ceiling Plan.

Cornice: GYPROC 45 x 35mm flush plaster trim (9,5mm thick) plugged. (Code 1972).

B12. Nutec ceilings:

Everite Nutec 4mm thick plain fibrecement ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, screw fixed to battens at 150mm centres and according to manufacturer's specifications, minimum of 12mm from edge of board. All joints to be covered using H-profile steel jointing strips, all in accordance with the manufacturer's recommendations. Also refer to Ceiling Plan.

B13. Wall tiles:

Johnson or similar Gloss White glazed ceramic wall tiles, size 200 x 200mm, fixed to wood floated Class II mortar plaster backing with approved tile adhesive mixed with bonding liquid in lieu of water, with 3mm joints continuous in both directions grouted with tile grout (elsewhere specified) with minimum 5mm expansion joints at perimeter, all structural expansion and construction joints and maximum 5m centres internally and at 3m centres externally, in both directions. Tile walls to door height (2100mm).

B14. Entrance Mat:

Matco Super Contract Fall PVC mat (Code: 4410), 15mm gauge, fixed in sunken aluminium mat surround formed of pre-formed matwell frame, complete with mitred edges and corner connectors, all in accordance with the manufacturer's recommendations.

Colour: TBC

Furniture and Fittings (C)

For all furniture and fittings see AddendumB 0-802

Joinery (D)

1. All dimensions of joinery work to be checked on site and shop drawings to be presented to Architect for approval prior to any manufacturing of joinery work. All joinery fittings and accessories to be designed and installed by Specialist

2. Unless otherwise specified, hardware and ironmongery to be as specified or similar approved
3. Door hinges: To be Boss type hinges for side panel mounting, including trim cups. Install minimum 2 hinges per Leaf up to 1000mm high and maximum 600mm spacing for hinges on doors higher than 1000mm.
4. Drawer runners: To be full metal sided and rear– fully retractable with 16mm SUPALAM (Colour White) drawer bases. Sides of drawers to be 500mm deep x 150mm high
5. Locks: (All doors and drawers to be lockable – keyed alike per room with Master Key) Door locks: To be Cyberlock-Short

Bolt Travel Left or Right (Finish Nickle)

SDT/Grass Ref: Rim Lock Nickle 22mm (Mastered) 7CL601-22-N

Mounting screws: 746190 - 6X19 Screw
Drawer locks: To be locked in series of four in height, with Face Fitting Cyberlock Central Locking System for recessing in the Cabinet Side Panel, SDT/Grass Ref: 700mm Central Locking System/Nickle (4 Drawer), 7CL603-700-N, 197480 - Zargen Locking Bracket Mounting screws: 749160 - 6X16 Screw

6. Cupboard door catches: BUCHEL TYPE: Elbow catch (Rooster) - Reference: B1566
7. Door stops: HAFELE TYPE: Press fit WHITE
8. Handles: HAFELE TYPE: Reference: 129.57.701 (Colour Architect's approval)

D1. Worktop – Back of House (with sink cut-out):

Surface: Formica LifeSeal worktop with 0.8mm Formica HPL – HG/P surface with Loglare finish with 100mm high fitted rear and side splash back (Top053). Side splash back to be fitted where required when a top is fitted at a corner.

Substrate: 32mm Bisonbord HMR

Backer: 0.8mm FORMICA HPL–BK brown backer

worktops are to be purpose-made to required length x 600mm wide with Squareline front profile.

Splashback backer: 0,8mm Formica HPL-BK backer, SANS ISO 4586:1995, having a 90 degrees profiled top profile, and is to be supplied and installed separately.

All exposed ends of worktops edged in 3mm PVC edging (colour as per Colour Schedule) to full profile and edges butting up against walls. Cut-outs to worktops to accommodate for stainless steel sinks to size. Cut-out edges to receive minimum two coats water repellent sealant. Placement of sinks to be applied by means of imbedding sink flange areas in an approved sealant.

Sink installation by means of mechanical fixing as per sink supplier specifications. Where applicable, top to be supported against wall by means of 38 x 38 x 2mm thick mild steel angle iron cleat finished with high quality mild steel paint system, colour to match wall finish.

2 units as per plan as follows:

1. 2m x 600mm
2. 3.5 m x 650mm

D2. Worktop – Front of House :

Melamine with matching impact edging to carcass and doors. Doors to be lockable. Front face of units to be clad with 16mm White melamine with matching impact edging, cladding to be fitted across entire front face of unit of the front units, with minimal joins. With Corian stone top as per D5.

2 units as follows:

1. 3000 x 1000 x 1000mm high as per plan
2. 600 x 4000mm x 1000mm high as per plan

D3. Overhead cupboards:

300mm deep Melamine with matching impact edging to carcass and doors. Doors to be lockable. Front face of units to be clad with 16mm White melamine with matching impact edging, cladding to be fitted across entire front face of unit of the front units, with minimal joins.

Unit size = 350mm x 1330mm x 900mm high

D4. Reception desk:

Bespoke Reception desk comprising:

1100mm high *as per plan* Corian countertop with timber base /shelving below

Main work station in melamine, size (read floor plan) 650mm (d) x 750mm (h), with raised boxed section with recessed LED light to underside

Desk Height Storage unit, 900mm (w) x 450mm (d)

D5. Wall fitted vanity top (change rooms):

Surface: 12mm CORIAN installed as per manufacturer specifications

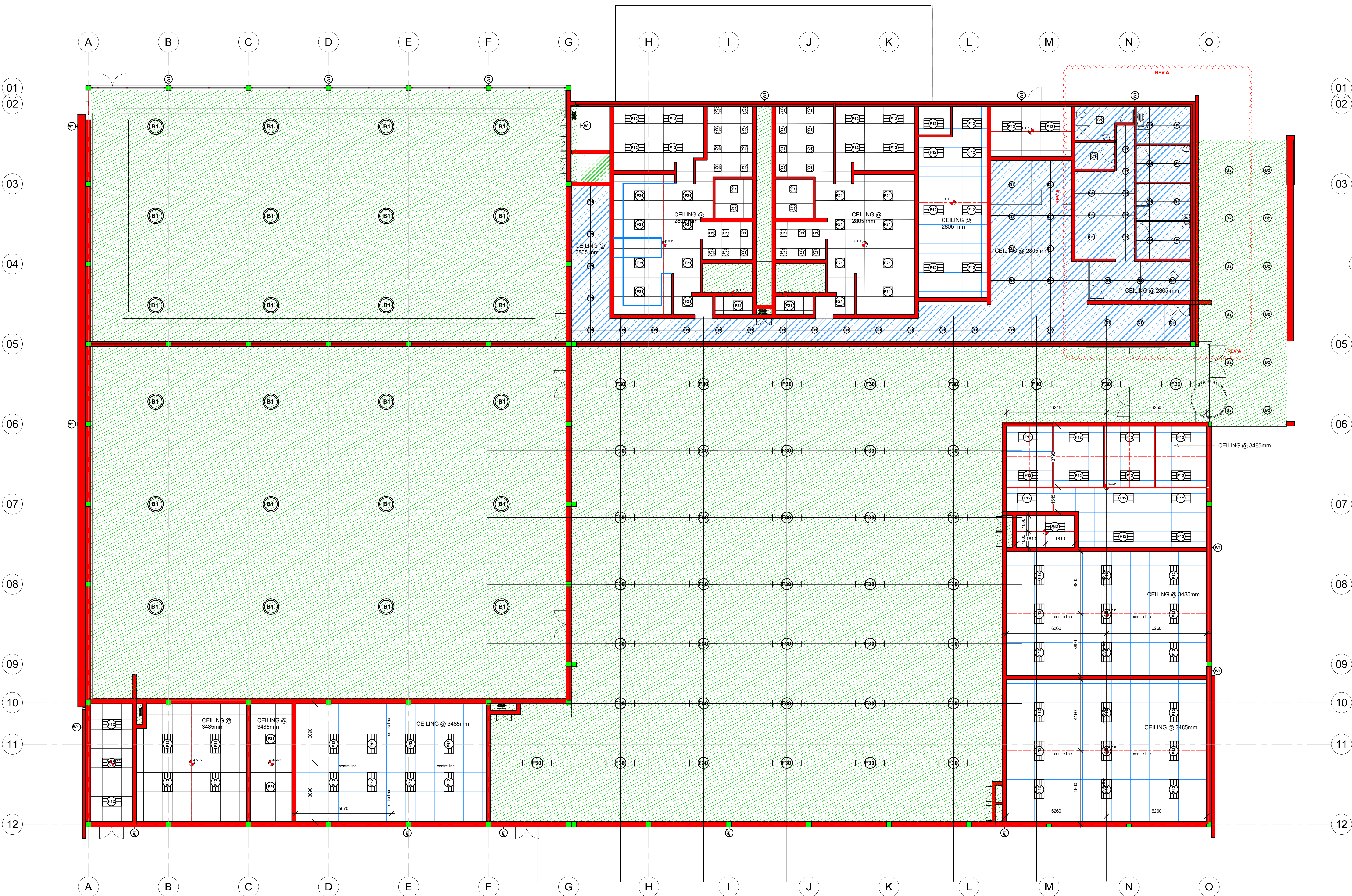
D6. Turnstile:

Turnstar or similar approved ultra-heavy duty Triumph 3 arm, full height, single electrical bi-directional turnstile in 304-grade stainless steel finish, with 5 year guarantee, with Rotalok® rotation locking mechanism and Rotarun® perpetual base bearing, all bolted to concrete slab (elsewhere specified) and connected to 220V power supply. Access control to electrical engineers detail specifications. All installed strictly to manufacturers specifications. All to Architect's approval.

FINISHES ROOM SCHEDULE: Refer to Codes above

| No. : | Room Name : | Floor Finish and skirting : | Wall Finish : | Ceiling: | Joinery : |
|-------|--|--------------------------------|---------------|----------|-----------|
| 01 | <i>Entrance</i> | B03/B14 | B06 | B10 | D6 |
| 02 | <i>Circulation / Reception</i> | B03 | B06 | B10 | D4 |
| 03 | <i>Spa</i> | B03 | B06 | B10 | |
| 04 | <i>Passages and Café Area</i> | B03 | B06 | B10 | D2 |
| 05 | <i>External Fire Escape passage /ducts</i> | B04 | A03 | B12 | |
| 06 | <i>Kitchen</i> | B05 | B06/B13 | B10 | D1 / D3 |
| 07 | <i>Play Area</i> | B03 | B06 | B08 | |
| 08 | <i>Sports Hall</i> | B01 | B06 | B10 | |
| 09 | <i>Change Rooms</i> | B05 | B06/B13 | B10 | |
| 10 | <i>Store Rooms</i> | B03 | B06 | B10 | |
| 11 | <i>Offices</i> | B03 | B06 | B10 | |
| 12 | <i>Yoga Studio</i> | B03 | B06 | B10 | |
| 13 | <i>Spinning Studio</i> | B02 | B06 | B10 | |
| 14 | <i>Aerobics Studio</i> | B02 | B06 | B10 | |
| 15 | <i>Weight Training Area</i> | B02 | B06 | B08 | |
| 16 | <i>Pool Area</i> | B05 | B06/B13 | B08 | |

1 CEILING PLAN
1 : 100



GENERAL NOTES:
ALL WORK TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS SANS 10400 - 2011.
ALL LEVELS AND DIMENSIONS TO BE CHECKED AND VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK.
ANY DISCREPANCIES TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

GLAZING NOTES:
ALL GLAZING TO COMPLY WITH PART N OF SANS 10400 - 2011.

STAIR & BALUSTRADE NOTES:
BALUSTRADES, HANDRAILS, HEIGHTS AND OPENINGS TO COMPLY WITH PART M.1.D OF SANS 10400 - 2011.
BASIC STAIR NOTES:
MAX. 200mm RISER MIN 250mm TREAD
BALUSTRADES 1.0m HIGH WITH NO GAP MORE THAN 100mm
IF THE STAIRCASE FORMS PART OF AN ESCAPE ROUTE IT IS TO COMPLY WITH PART M OF SANS 10400 - 2011.

DEMOLITION WORK:
ALL DEMOLITION WORK TO BE CARRIED OUT IN ACCORDANCE WITH SANS 10400 - 2011 PART F. NO DEMOLITION WORK IS TO BE CARRIED OUT WITH RELEVANT MUNICIPAL AND/OR CLIENT APPROVAL.

PLUMBING & DRAINAGE:
ALL PLUMBING TO COMPLY WITH PART P OF THE SANS 10400 - 2011.
ALL WASTE PIPES AND DRAINS TO BE ACCESSIBLE ALONG THEIR ENTIRE LENGTH. PROVIDE INSPECTION EYES AT ALL DRAIN BENDS AND JUNCTIONS AND AT A MAX. 25m ALONG STRAIGHT RUNS.
CLEANING EYES TO BE PROVIDED AT ALL BENDS AND JUNCTIONS OF WASTE PIPES. WASTE TO BE FITTED WITH TRAP WATER CONNECTIONS TO FITTINGS - 15mm DIA TO WIR, INC AND SHOWERS 20mm DIA TO GEYSERS 25mm DIA TO FAN ALL VENT PIPES TO DISCHARGE TO EXTERNAL AIR 50MM² WASTE PIPES REQUIRE A 75MM² SLEEVE 110MM² WASTE PIPES REQUIRE A 150MM² SLEEVE ALL NEW SEWER LINES TO RUN IN THE CEILING VOID OF THE FLOOR BELOW.

FOR PLUMBING AND DRAINAGE LAYOUT PLANS AND CROSS SECTIONS REFER TO REGISTERED WET SERVICES ENGINEERS DRAWINGS FOR RATIONAL DESIGN DRAWINGS.
ALL STORM WATER TO BE COLLECTED AND DRAINED TO COMPLY WITH PART P OF THE SANS 10400 - 2011 AND DRAIN TO MUNICIPAL STORM WATER DRAINAGE SYSTEM TO ENGINEERS DETAILS.

STRUCTURAL:
ALL REINFORCED CONCRETE WORK AND RETAINING WALLS TO BE STRICTLY IN ACCORDANCE WITH REGISTERED STRUCTURAL ENGINEERS' DETAILS AND SPECIFICATIONS.

MECHANICAL VENTILATION & LIGHTING:
ALL LIGHTING AND VENTILATION (FRESH AIR AND EXTRACT) TO COMPLY WITH PART O (SANS 10400 - 2011) IN ACCORDANCE WITH REGISTERED MECHANICAL ENGINEERS DRAWINGS AND REGISTERED ELECTRICAL ENGINEERS DRAWINGS ALL ARTIFICIAL LIGHTING TO COMPLY.

SANS 10400XA
WALLS
NON-MASONRY WALL WILL HAVE 'R' VALUES AS PROVIDED. (SANS 10400 - XA 4.4.3.1)
DOUBLE SKING MASONRY WITH PLASTER INSIDE OR RENDER OUTSIDE COMPLES SINGLE LEAF. MIN. 140MM WITH PLASTER INSIDE AND RENDER OUTSIDE COMPLES. (SANS 10400-XA 4.4.3.2)
OTHER MASONRY WALLS WILL HAVE 'R' VALUE OF 0.35. (SANS 10400 - XA 4.4.3.3)

FENESTRATION:
AIR LEAKAGE SHALL NOT EXCEED 2L/hm² FENESTRATION AREA @ 300 L/hm² FIXED GLAZING, AND 5 L/hm² REVOLVING/ SWING DOORS. (SANS 10400 - XA 4.4.1.1)
FENESTRATION MORE THAN 15% TO NETT FLOOR AREA PER STOREY THEN (SANS 10400-XA 4.4.2.1)
FENESTRATION UP TO 15% AREA TO NETT FLOOR AREA PER STOREY COMPLES (SANS 10400-XA 4.4.1.1)
SOLAR HEAT GAIN AND HEAT CONDUCTANCE TO COMPLY WITH SANS 204 4.3.4.

ENGINEERS NOTES:
* All beams to Engineers spec.
* All foundations & concrete slabs to Engineers spec.
* All excavations to Engineers spec.
* All water run-off above & below ground to engineers spec.
* No foundations to encroach or breach Building / Servitude lines.

CEILING LEGEND

- VINYL CLAD - GYPREX Fixed White 1200mm x 600mm
CEILING SYSTEMS OR OWA EQUIVALENT
- ACOUSTIC - 1200mm x 600mm
CEILING SYSTEMS OR OWA EQUIVALENT
- 9mm GYPROC RHINOBOARD RHINOLITE
90M PLASTER & PAINT PLASTERBOARD
COLOUR - TO BE CONFIRMED
CODE - TO BE CONFIRMED
- ISO BOARD OVER PURLIN CEILING (REFER TO SECTIONS FOR HEIGHTS)
- FIBRE CEMENT CEILING
- S.O.P.
SETTING OUT POINT

FOR INFORMATION ONLY

GENERAL DRAWING NOTES:
• THE DESIGN ON THIS DRAWING IS COPYRIGHT AND REMAINS THE PROPERTY OF THE ARCHITECT.
• ALL WORK TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH MUNICIPAL REGULATIONS.
• DRAWINGS NOT TO BE SCALED. ONLY ANNOTATED DIMENSIONS TO BE USED.
• ALL RELEVANT DATUM, LEVELS, DIMENSIONS TO BE CHECKED ON SITE BEFORE COMMENCEMENT OF WORK.
• ALL DRAWINGS ARE TO BE CHECKED BY THE MAIN CONTRACTOR AND ANY DISCREPANCIES ON THE DRAWINGS OR BETWEEN THE DRAWINGS ARE TO BE REFERRED TO THE ARCHITECT.
• CONTRACTOR TO CHECK ALL QUANTITIES PRIOR TO ORDERING AND MANUFACTURE.
• CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO MANUFACTURE.

| REV | DESCRIPTION | REV DATE |
|-----|------------------------|------------|
| A | REVISED CEILING LAYOUT | 05.03.2020 |

Owner/Client:

Owner/Client Signature:

Eng. Signature:

Arch. Signature:

Arch. Council no. :

CLIENT / SPONSOR



CONSULTANT



ARCHITECT



Project Title:
**EKURHULENI EAST TVET
COLLEGE - WELLNESS CENTRE**

date : 03/09/2021 10:24:54

drawn : Author

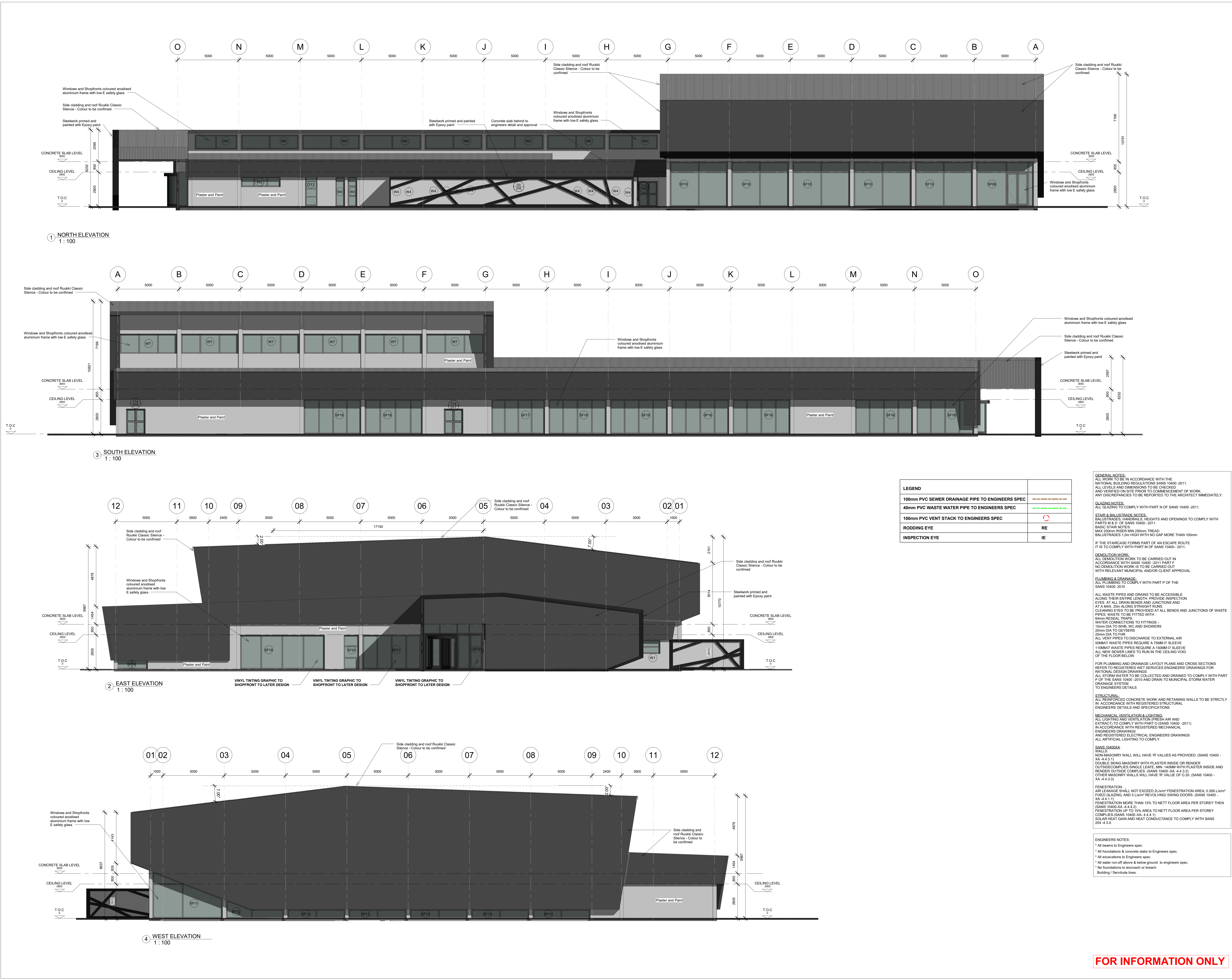
scales : As indicated

Drawing Description:

CEILING AND LIGHTING LAYOUT

ISSUED FOR: ☐ TENDER ☐ ISSUED FOR CONSTRUCTION ☐ DATE: ☐ ISSUE

Job No. 2019_59 Drawing No. DD 104 Rev. No. A



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- CONTRACTOR TO CHECK ALL QUANTITIES PRIOR TO ORDERING AND MANUFACTURE
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO MANUFACTURE

| REV | DESCRIPTION | REV DATE |
|-----|---------------------|------------|
| A | CHANGEROOM ROOF | 28.02.2020 |
| B | CONCRETE SLAB ADDED | 05.03.2020 |
| | PLANT ROOM ADDED | |

Owner/Client:

Owner/Client Signature:

Eng. Signature:

Arch. Signature:

Arch. Council no. :

CLIENT / SPONSOR

CONSULTANT

ARCHITECT

ruben reddy architects

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info@rubenreddyarch.co.za | www.rubenreddyarch.co.za

Project Title:

EKURHULENI EAST TVET COLLEGE - WELLNESS CENTRE

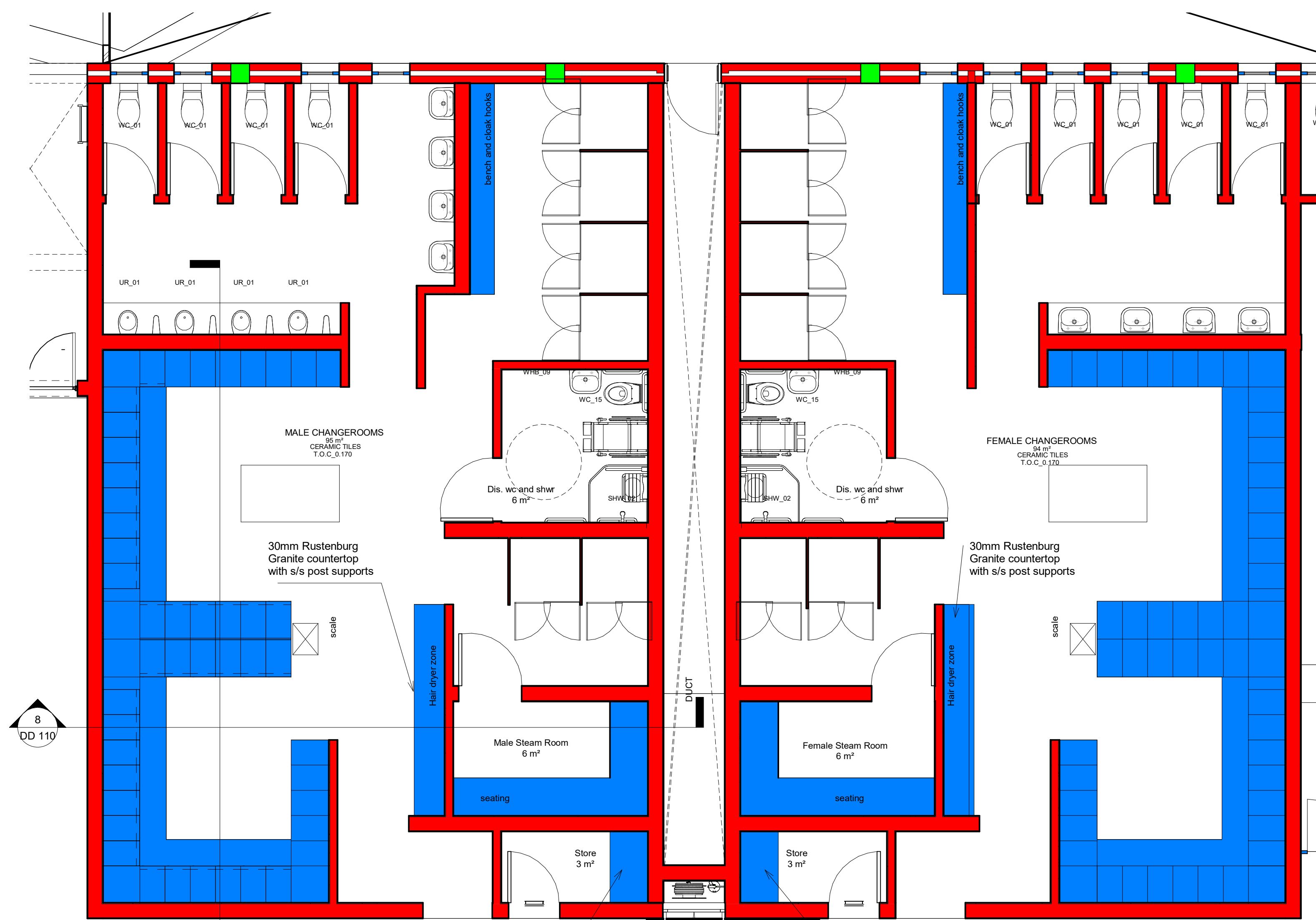
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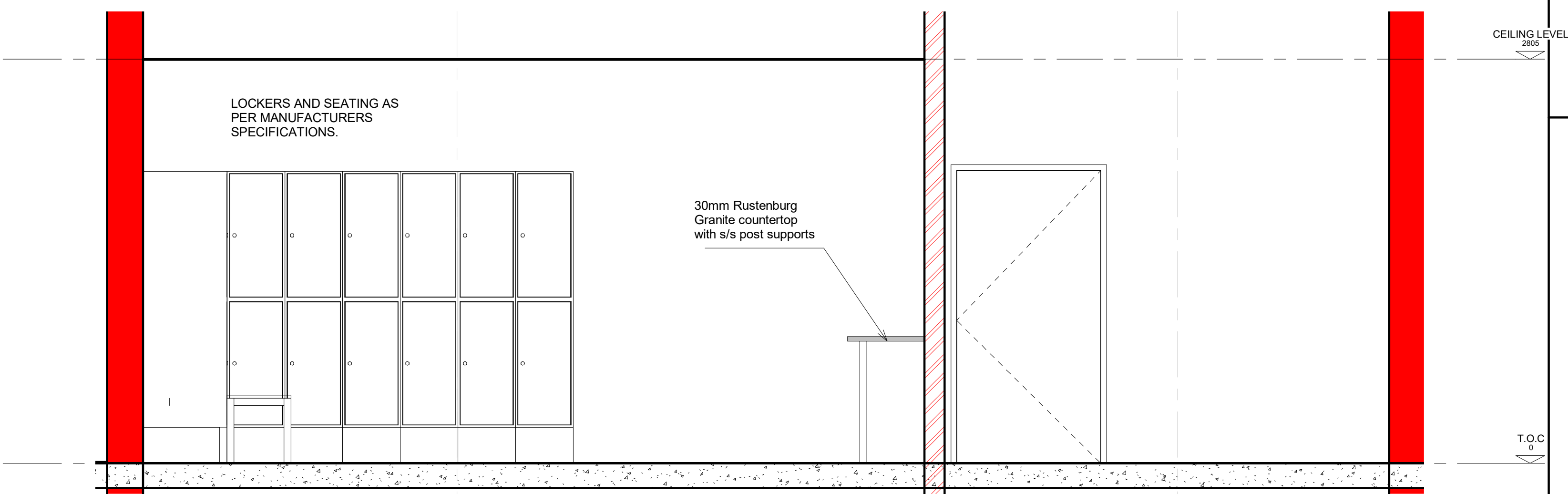
ISSUED FOR TENDER: ☐ ISSUED FOR CONSTRUCTION: ☐ DATE: ISSUE:

Job No. 2019_59 Drawing No. DD 201 Rev. No. B

FOR INFORMATION ONLY



2 JOINERY PLAN CHANGEROOMS
1: 50

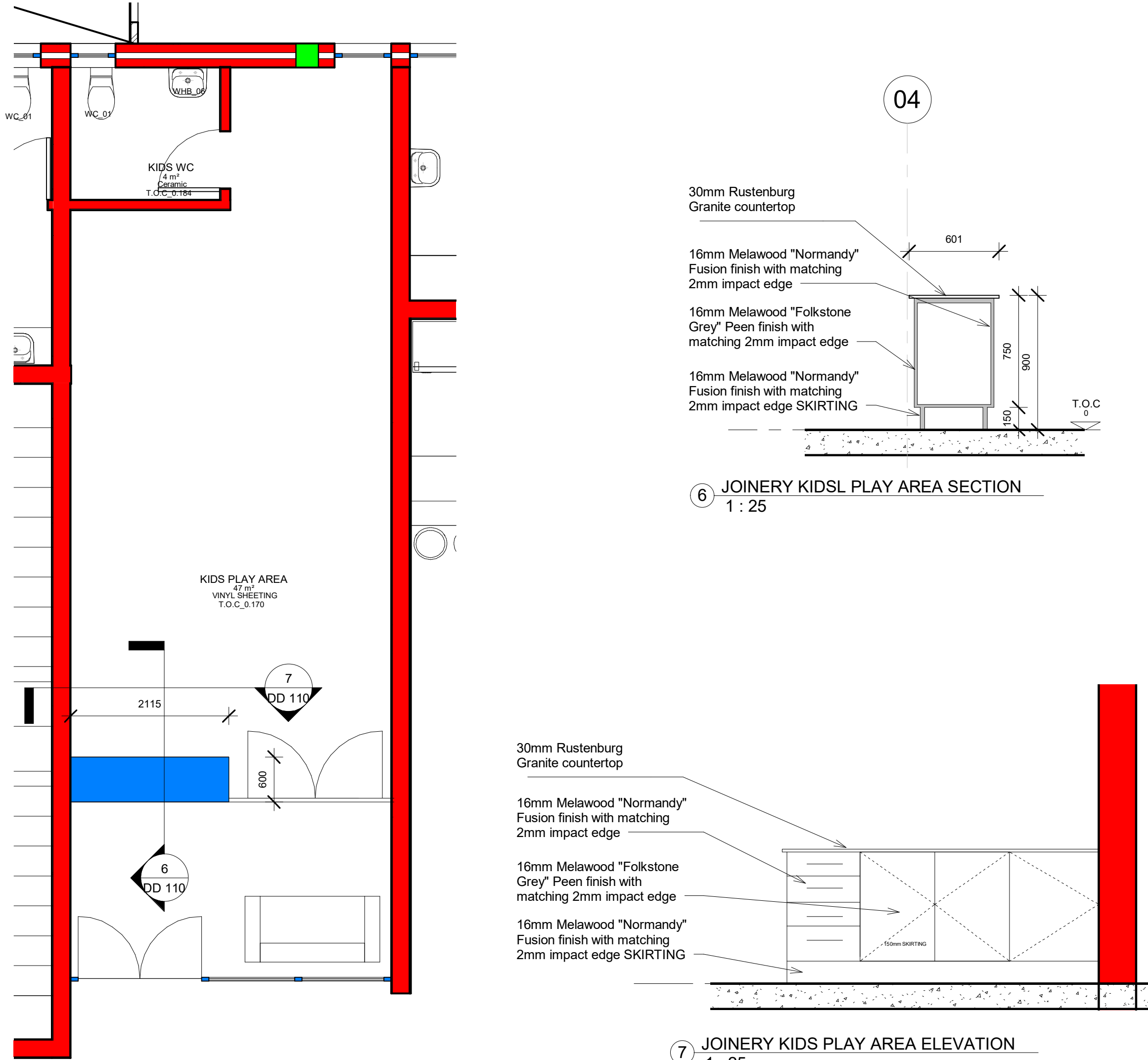


8 JOINERY LOCKERS SECTION AA
1: 25

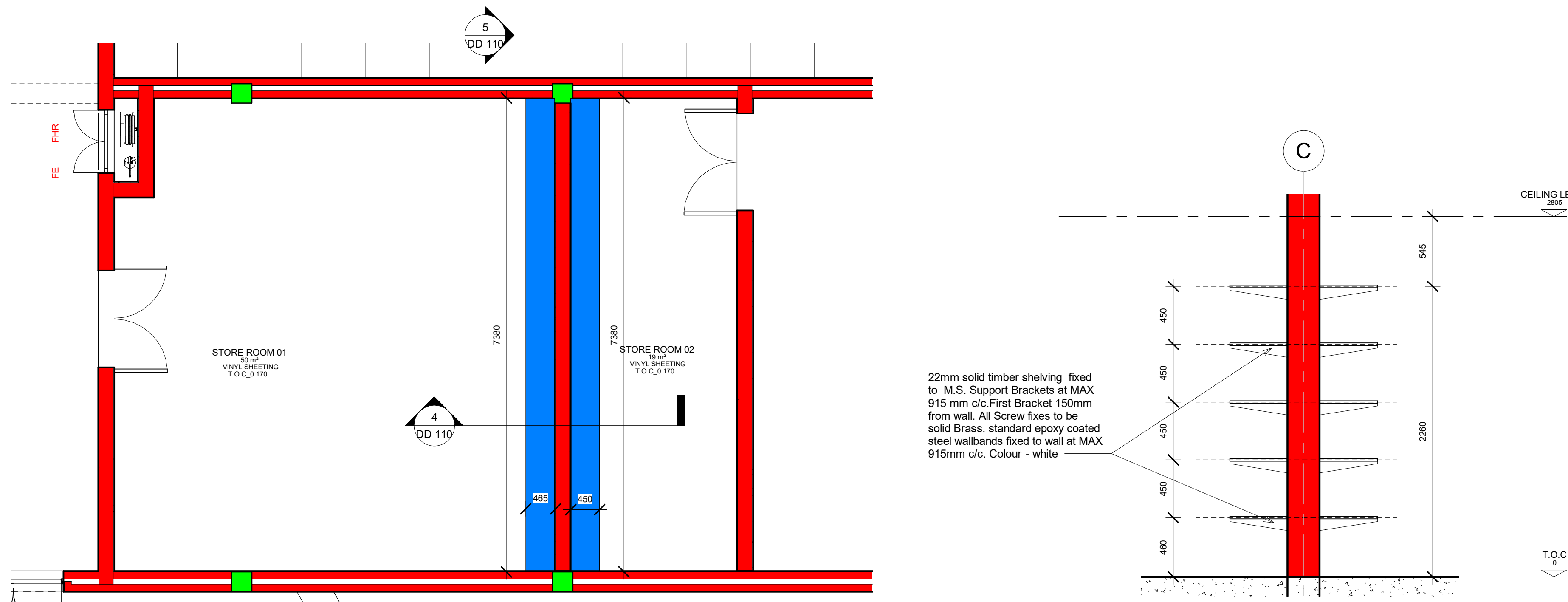


9 JOINERY LOCKERS SECTION BB
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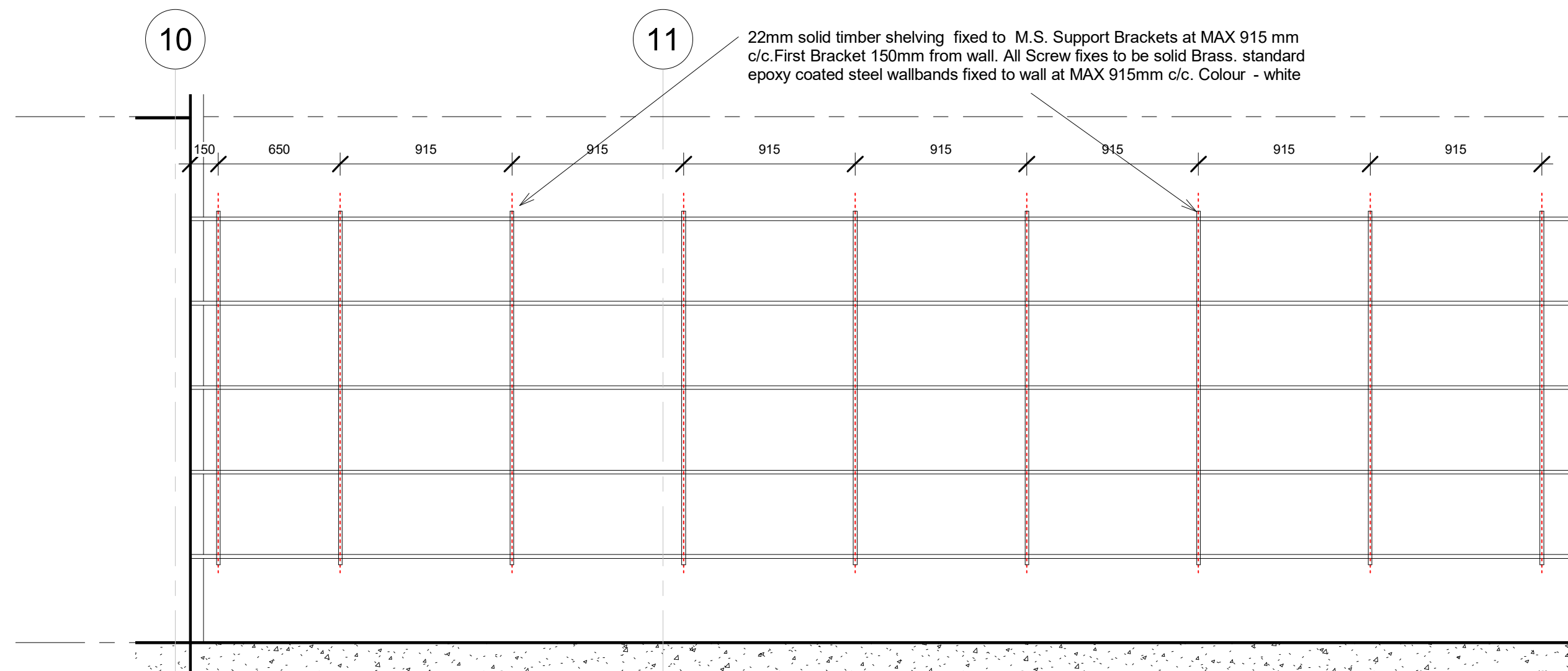
Lockers/Bench combos
For manufacture, delivery and installation of ninety-two (92) Locker-Bench Combinations with 2 doors, dimensions 1900h x 400w x 600d - lockers 1500h and bench 400h. Carcass manufactured using 4mm, 8mm and 12mm Compact High-Pressure Laminate in white, doors in 12mm Compact High-Pressure Laminate (colour: standard stock held colour range).
Ironmongery to include auto return hinge (code: CSHNGFLOK) and D shaped keep (code: CSBHP/LCDBK) for individuals own padlocks (no locking mechanism included), lock cover plate and handle (code: CSBCKONBPL T) and lockers also have individual numbers. Lockers to sit on bench frame which is manufactured using powder coated mild steel, with a 400mm bench frame at the front of the lockers. Bench seating to be manufactured using 12mm Compact High-Pressure Laminate, (colour: from stock-held colour range).
Benches
For the manufacture, delivery and installation of two (2) benches (code CSBEN/chpl) manufactured using powder coated mild steel frames, (powder coating colours: Traffic Black / Charcoal / New Silver / White Aluminium).
Bench seating to be manufactured using 12mm Compact High-Pressure Laminate slats 100mm wide, length 3360mm (colour from stock-held colour range), pop-riveted to frame.



3 JOINERY PLAN KIDS PLAY AREA
1: 50



1 JOINERY PLAN STORE ROOM 1 AND 2
1: 50



5 JOINERY STORE 01 AND 2 ELEVATION
1: 25

JOINERY CONSTRUCTION NOTES

GENERAL:

1. ALL JOINERY JUNCTIONS ARE TO BE SECRETLY FIXED.
2. NO EXPOSED SCREWS, PLUGS OR FILLERS WILL BE ACCEPTED.
3. ALL COLOURS AND FINISHES ARE TO BE CONFIRMED BY ARCHITECT.
4. SHOPFITTER IS TO PROVIDE SAMPLES OF ALL MATERIALS FOR ARCHITECTS APPROVAL PRIOR TO MANUFACTURE.
5. DEVIATIONS TO THESE JOINERY DRAWINGS ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO THE PREPARATION OF SHOP DRAWINGS.
6. SHOPFITTER TO CHECK ALL DIMENSIONS ON SITE PRIOR TO THE PREPARATION OF SHOP DRAWINGS.
7. SHOPFITTER TO SUPPLY THE ARCHITECT WITH SHOP DRAWINGS FOR APPROVAL PURPOSES PRIOR TO MANUFACTURE.
8. DOORS, DRAWERS FRONT, SKIRTING & CUPBOARD CARCASSES TO BE CONSTRUCTED OUT OF 16MM MELAMINE FACED "V313"MOISTURE RESISTANT PARTICLE BOARD (IDENTIFIABLE BY GREEN IN COLOUR) WITH 2MM HIGH IMPACT EDGING OR 16 X 10mm HARD WOOD EDGING.
10. ONLY WATERPROOF V313(HMR) BOARD IS TO BE USED FOR COUNTER TOPS.
11. SUPA WOOD IS ONLY PERMITTED FOR INTERNAL SHELVING, AND NOT FOR CUPBOARD CONSTRUCTION OR EXPOSED EXTERNAL.
12. LOCKSETS FOR CUPBOARDS AND DRAWERS ARE TO BE ALLOWED FOR BY THE SHOPFITTER. SHOPFITTER IS TO HAVE THE SAMPLE LOCKSET APPROVED BY THE ARCHITECT PRIOR TO ORDER AND FITTING.

POWER SUPPLY NOTE:

1. CONTRACTOR IS TO ALLOW FOR POWER MANAGEMENT HOLES THROUGH JOINERY FITTINGS POSITION IS TO BE AS ON DRAWINGS OR AS SHOWN ON SITE.
2. ANY CLASHES WITH ELECTRICAL POINTS E.T.C. TO BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO MANUFACTURE.

CUPBOARDS:

1. PAIR EUROMAT T42 CONCEALED CPBD HINGES WITH 3mm ADJUSTABLE PLATE (032349) AS SUPPLIED BY HETTICH GELMAR, O.E.A.
- Handle: Eclipse Turkish Bar 14mm square stainless-steel finish
- CUPBOARD SHELVES: AS PER ARCHITECTS DETAILS

CUPBOARD CARCASSES:

1. INTERNAL CUPBOARD CARCASSES TO BE CONSTRUCTED OUT OF 16MM WHITE MELAMINE FACED "V313"MOISTURE RESISTANT PARTICLE BOARD (IDENTIFIABLE BY GREEN IN COLOUR) WITH 2MM HIGH IMPACT EDGING OR 16 X 10mm HARD WOOD EDGING REFER TO JOINERY DRAWINGS FOR SPECIFICATION OF COLOUR
2. REAR CLOSURE PANEL TO BE WHITE FACED MASONITE SHEETING WITH OPENINGS FOR PLUMBING PIPES WHERE NECESSARY (MEASURE OUT ON SITE.)

DRAWERS:

1. DRAWERS FRONT & SKIRTING TO BE CONSTRUCTED OUT OF 16MM MELAMINE FACED "V313"MOISTURE RESISTANT PARTICLE BOARD (IDENTIFIABLE BY GREEN IN COLOUR) WITH 2MM HIGH IMPACT EDGING OR 16 X 10mm HARD WOOD EDGING EDGING COLOUR TO MATCH COLOUR OF MELAMINE.
- DRAWERS AS TO HAVE: 40T - 22 NP CYLINDER DRAWERS LATCH AS INDICATED. LOCKSETS FOR CUPBOARDS AND DRAWERS ARE TO BE ALLOWED FOR BY THE SHOPFITTER.)

DRAWER CARCASSES:

1. 16 mm WHITE MELAMINE FINISHED CHIPBOARD DRAWER BOX SECURLY FIXED TO DRAWER FRONT.
- ALL DRAWERS AS INDICATED TO HAVE: 1 PAIR FR402L DRAWER RUNNERS AS SUPPLIED BY HETTICH GELMAR O.E.A TO RUN FULL DEPTH OF DRAWER.

SHELVING UNIT:

- WALL BAND: EPOXY COATED STEEL WALLBANDS OR AS SPECIFIED FIXED TO WALL.
- BRACKETS: EPOXY COATED STEEL OR AS SPECIFIED BRACKET
- COLOUR: WHITE / S STEEL

SKIRTINGS:

- JOINERY'S SKIRTING FINISH TO MATCH ROOM'S FLOOR FINISH.
- FORMICA SKIRTING - (AT CARPET & TILED FLOOR FINISHES).
1. BLACK FORMICA FINISH OR ALUMINIUM AS NOTED ON DRAWINGS TO 150mm PLINTH.
2. SKIRTING AT TILED FLOOR IS ALUMINIUM SILICONE SEAL CONTINUOUSLY BETWEEN PLINTH & TILES
3. SKIRTING AT CARPET FLOOR IS A PAINTED 75MM MERANTI.
- VINYL SKIRTING: (AT VINYL FLOOR FINISH)
1. VINYL UPTURN SKIRTING TO 150 mm ABOVE FINISHED FLOOR LEVEL WITH PC. 20 POLY COVE.
2. VINYL COLOUR AS PER FLOOR COLOUR.

NOTE: JOINERY DETAILS TO BE READ IN CONJUNCTION WITH JOINERY REFERENCE PLANS

FINISHES NOTES:

- Worktop 30mm: Rustenburg Granite
- All drawers, cupboard & open shelves in Melawood Normandy Fusion Finish with impact edging to match.
- Carcasses: Melawood Folkstone Grey, Peen finish with impact edges to match.
- Skirting: 150mm Vinyl upturn over plinth.
- Support Post: 60 dia. brushed stainless steel support post.

GENERAL DRAWING NOTES

- THE DESIGN ON THIS DRAWING IS COPYRIGHT AND REMAINS THE PROPERTY OF THE ARCHITECTS.
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| REV | DESCRIPTION | REV DATE |
|-----|------------------------|------------|
| A | ISSUED FOR INFORMATION | 05.08.2021 |

Owner/Client:

Owner/Client Signature:

Eng. Signature:

Arch. Signature:

Arch. Council no. :

CLIENT / SPONSOR



CONSULTANT



ARCHITECT



Project Title:
EKURHULENI EAST TVET COLLEGE - WELLNESS CENTRE

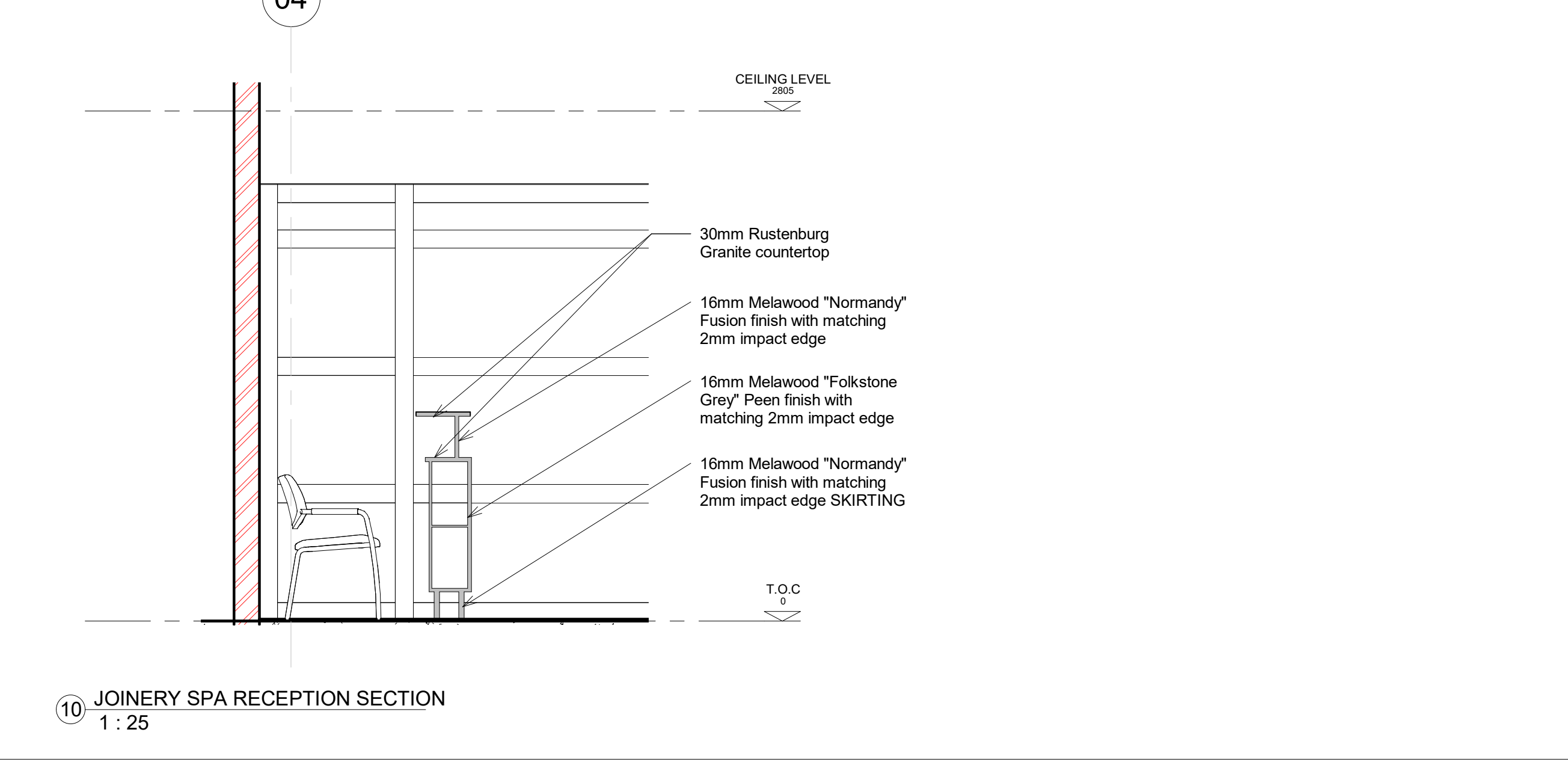
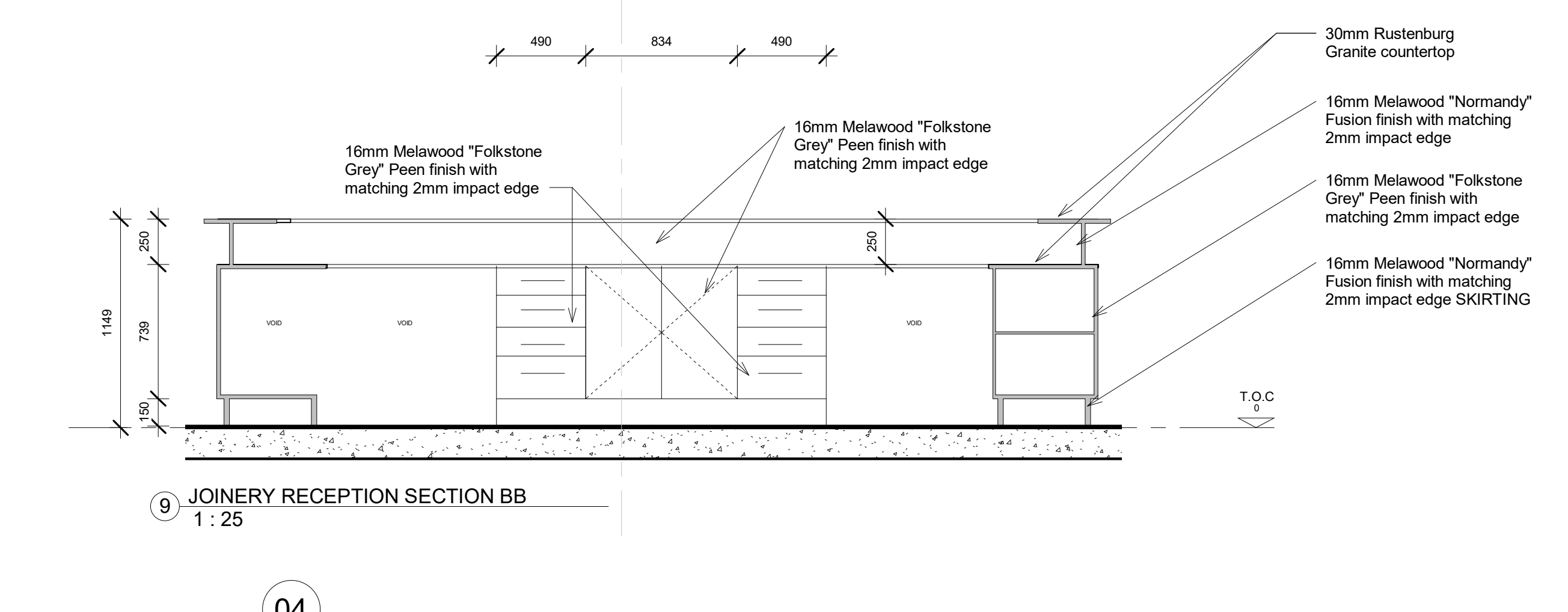
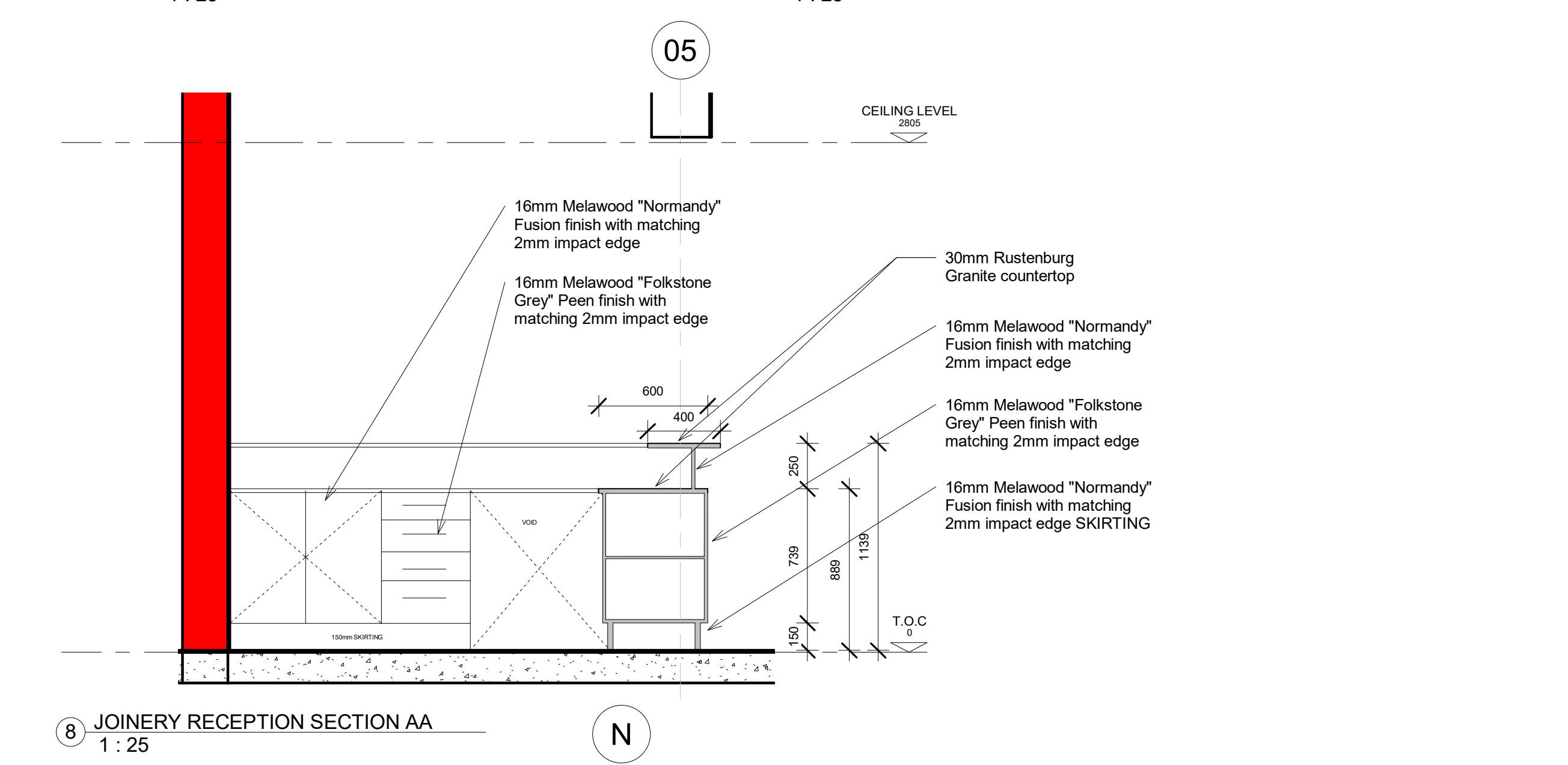
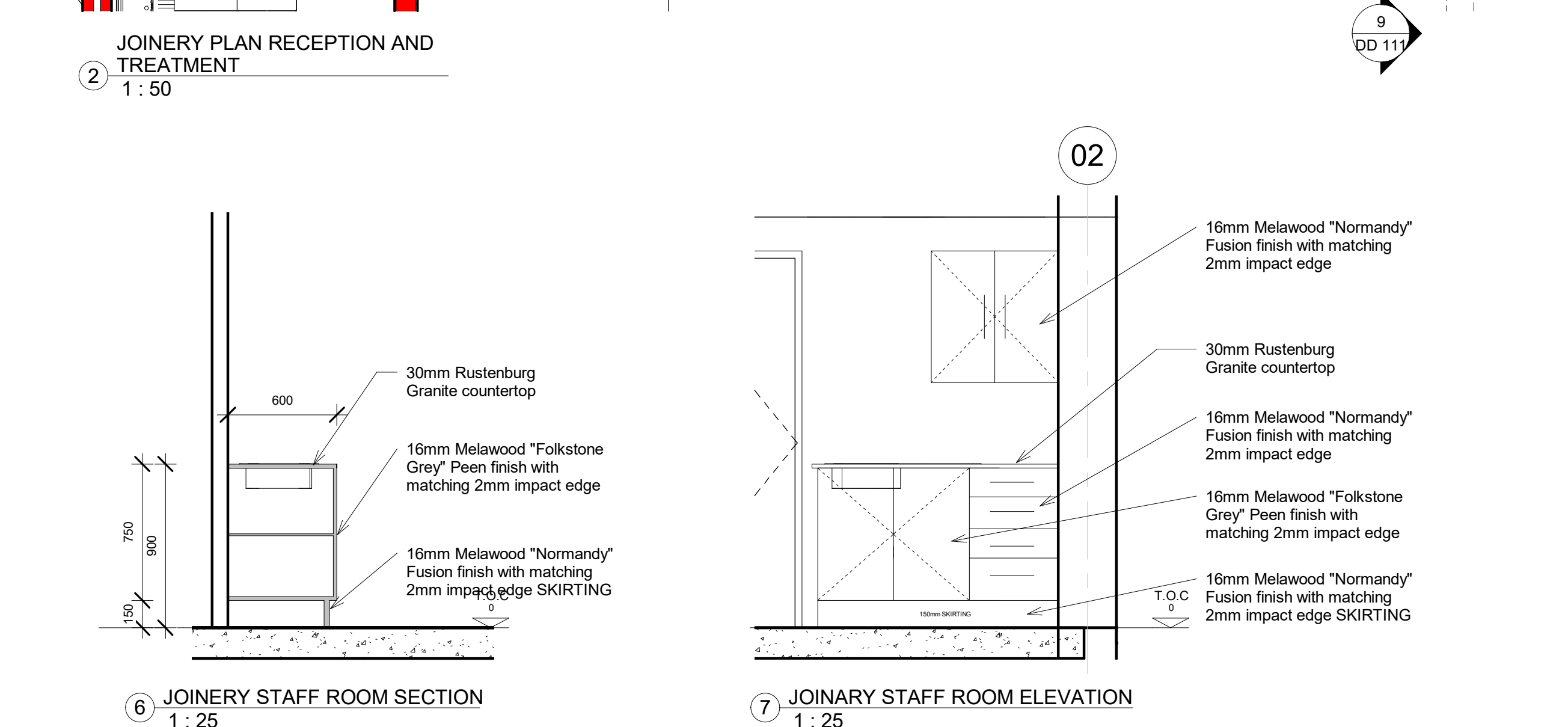
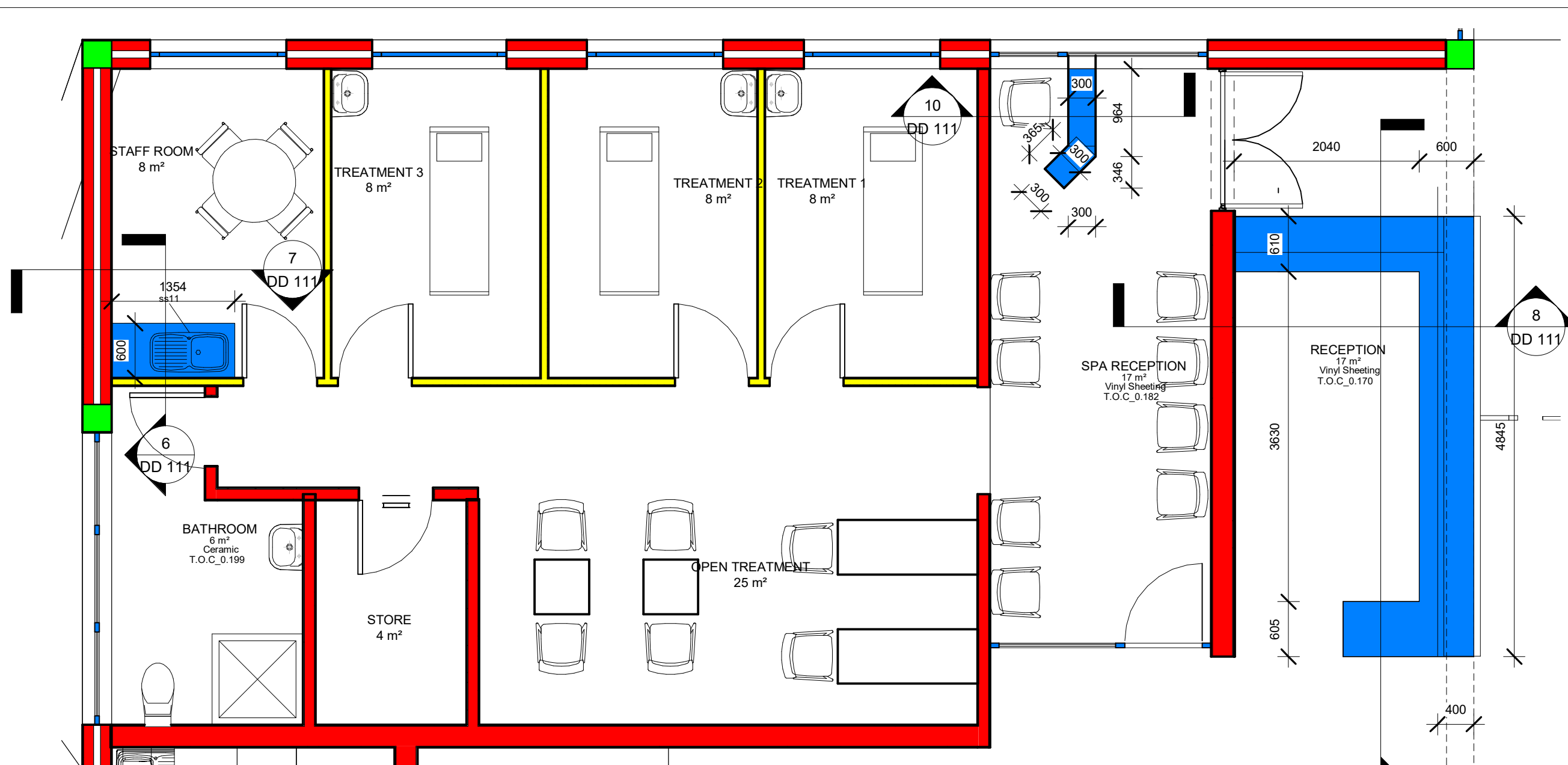
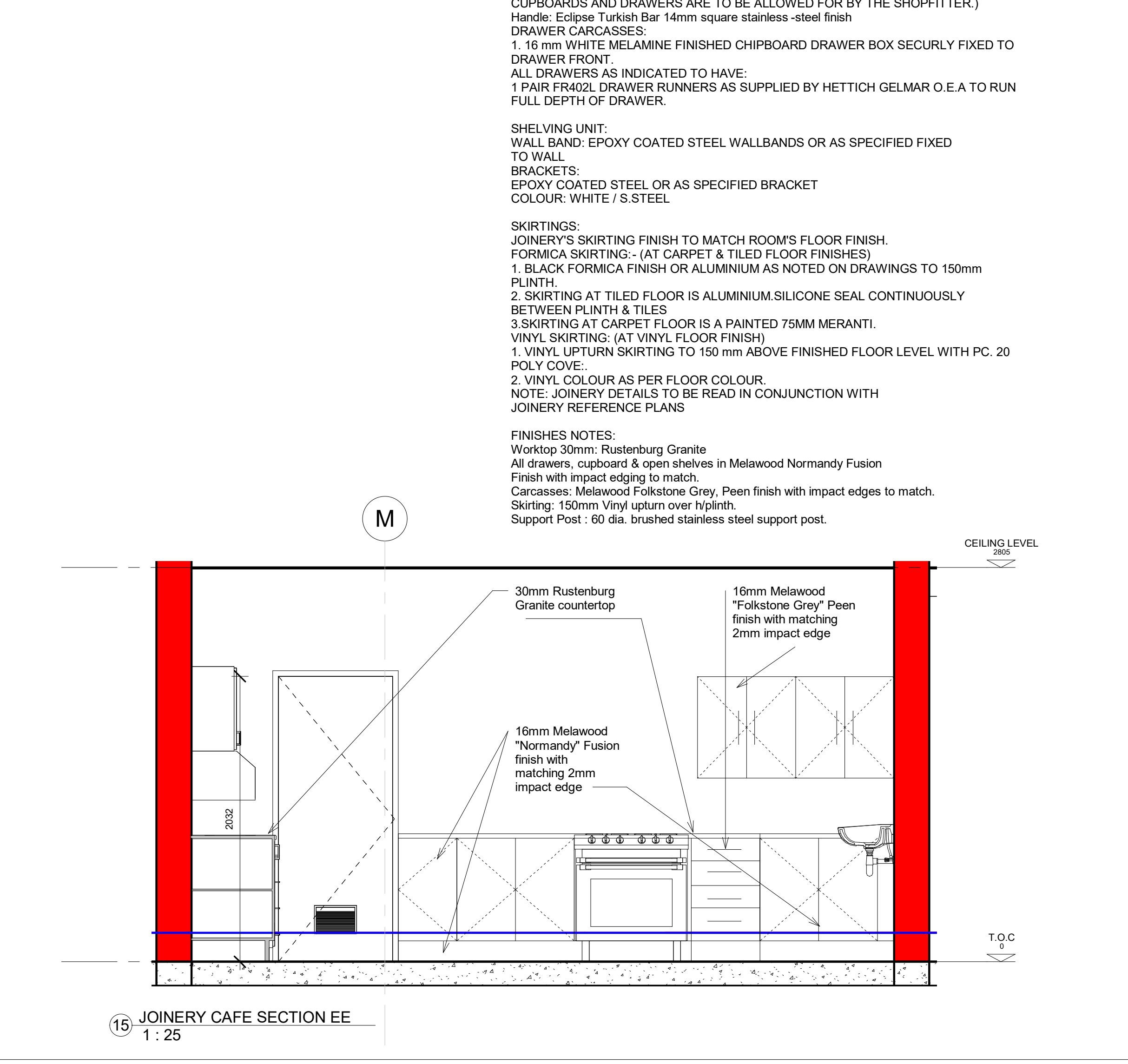
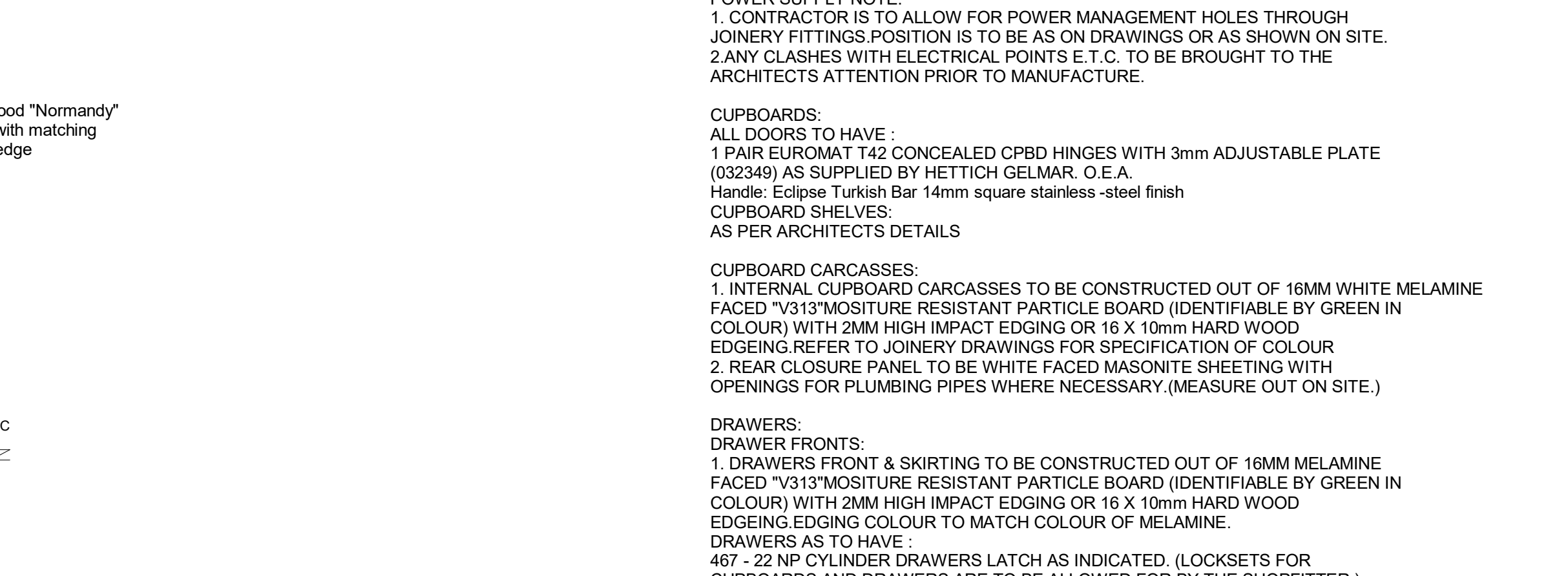
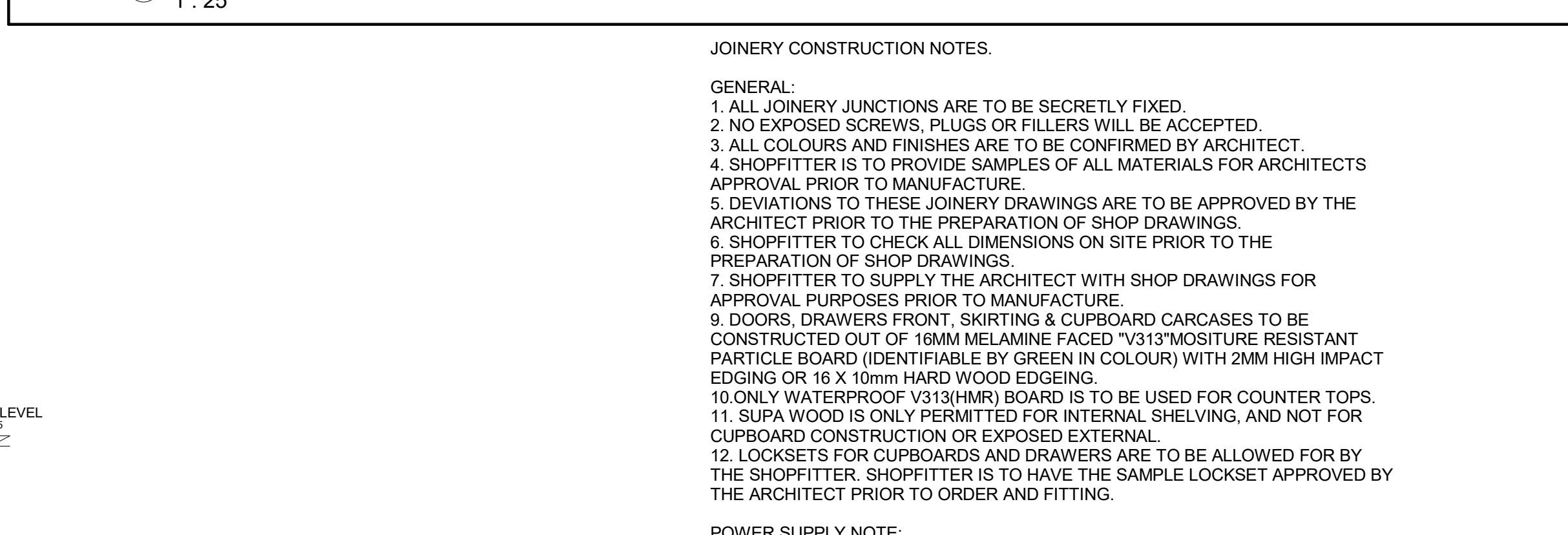
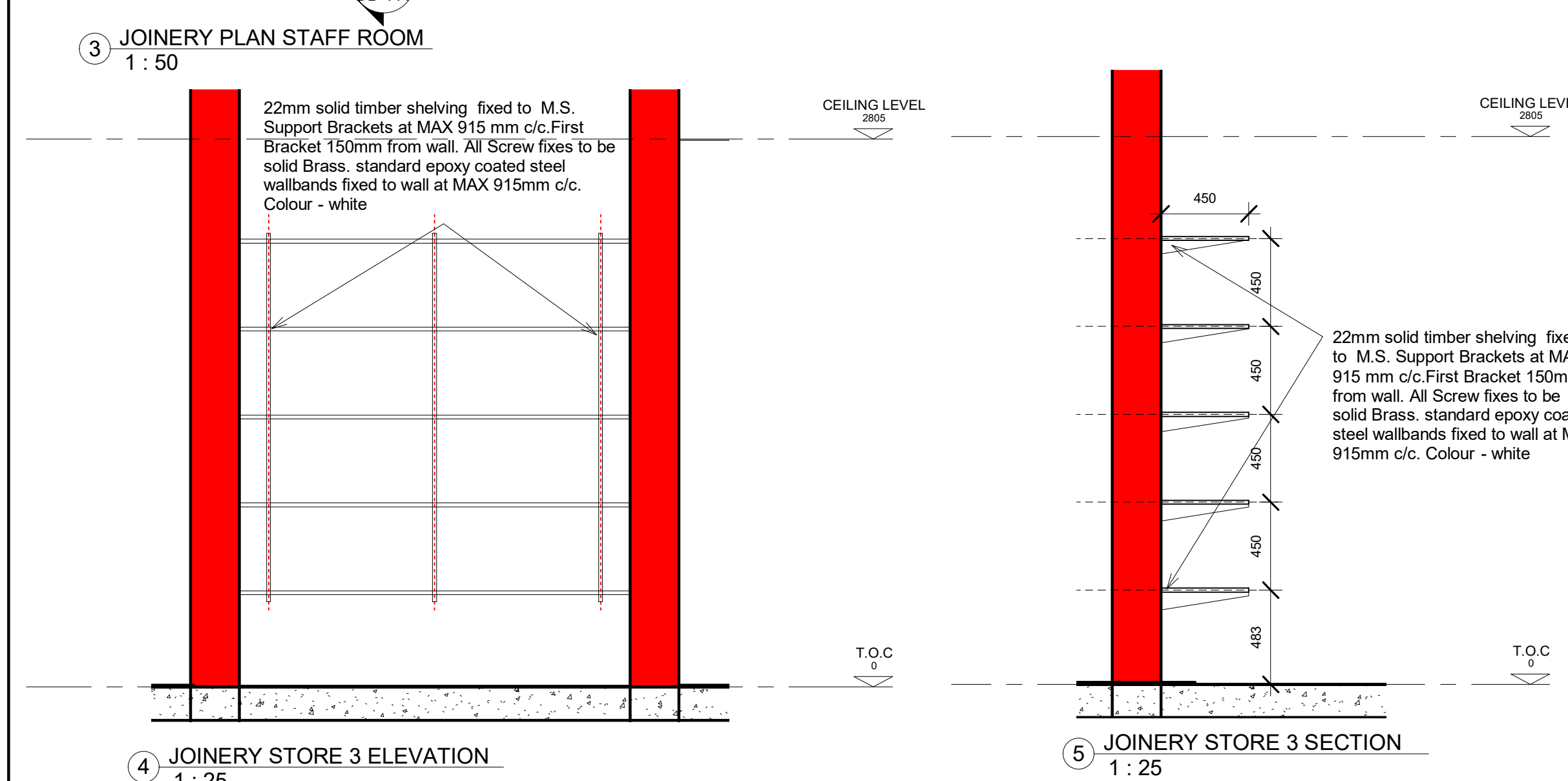
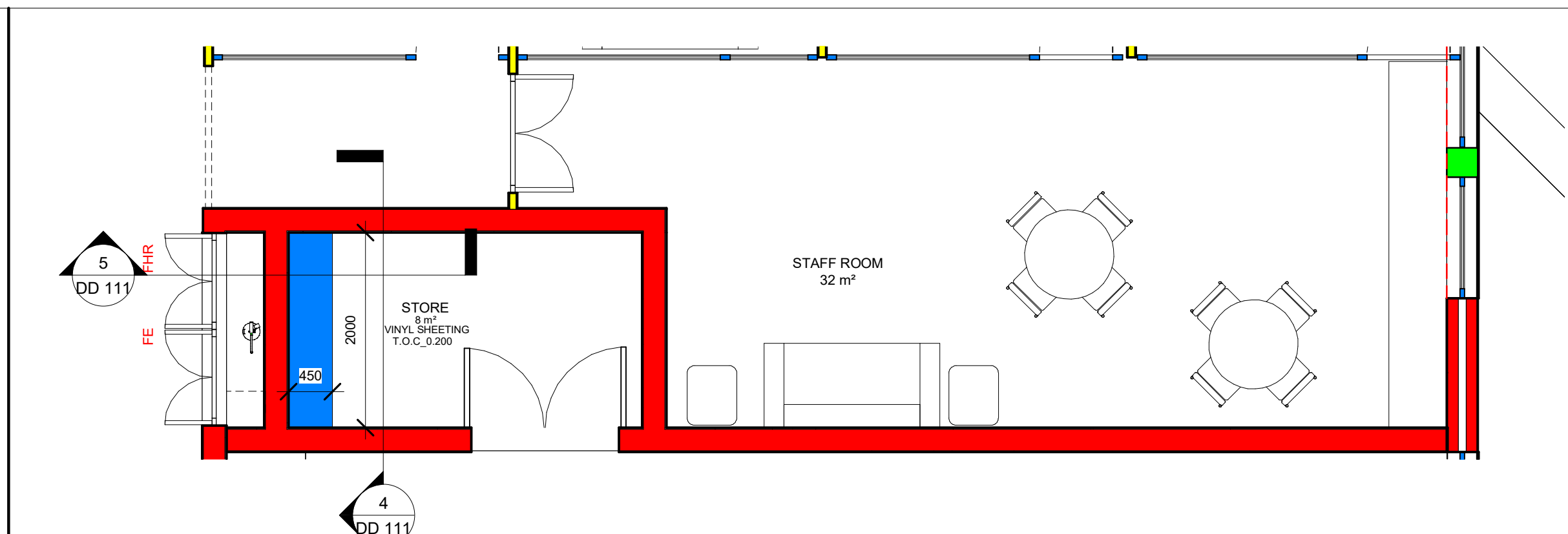
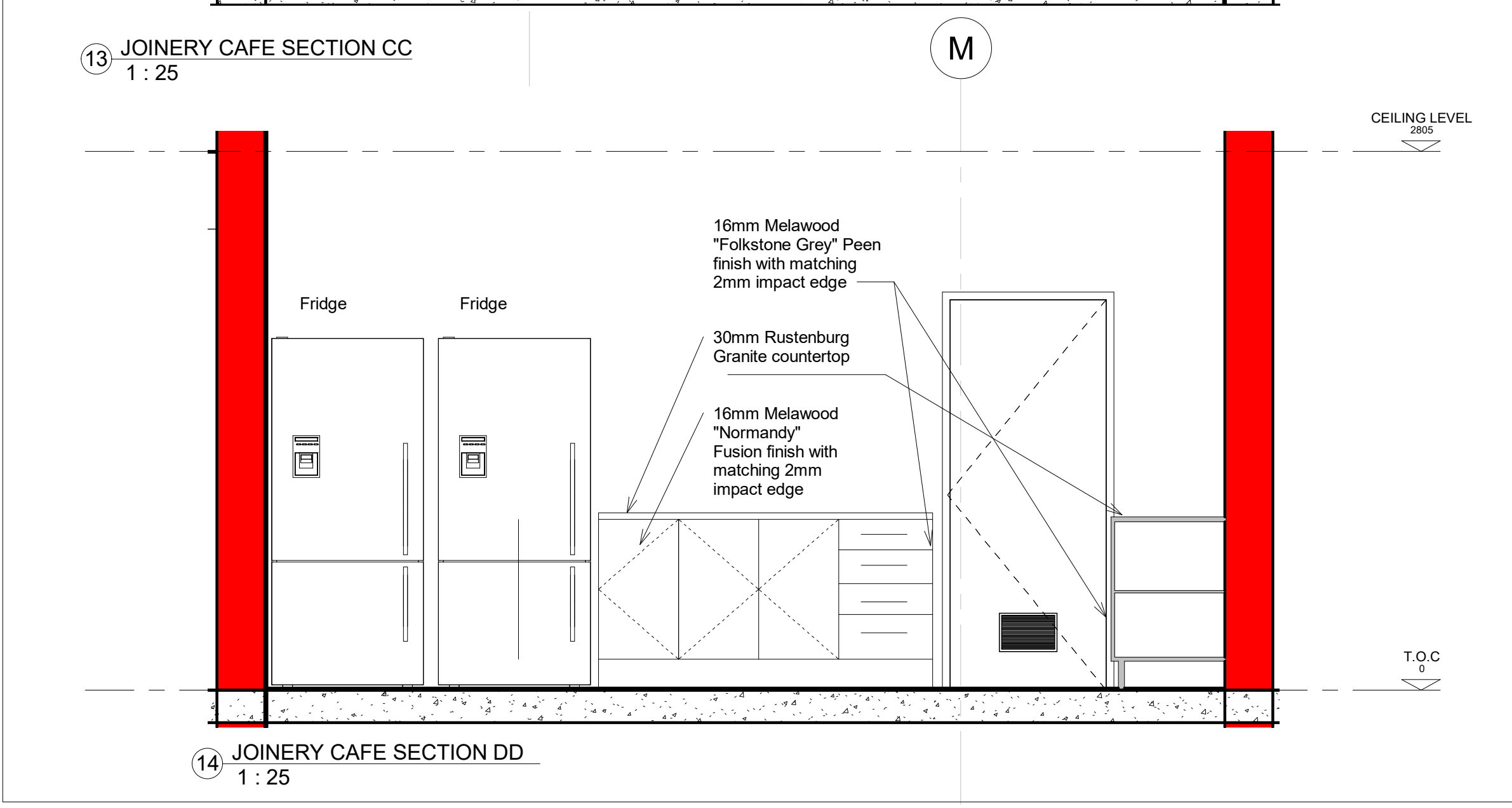
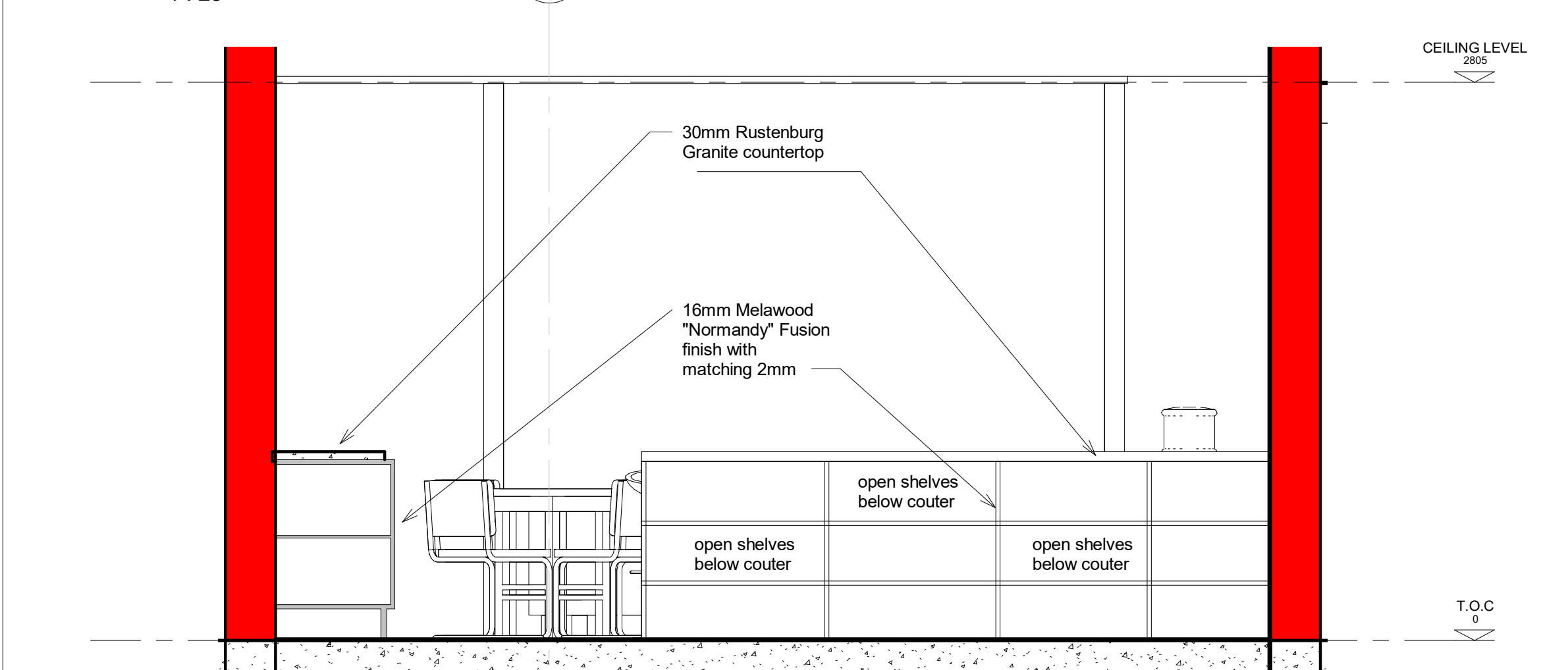
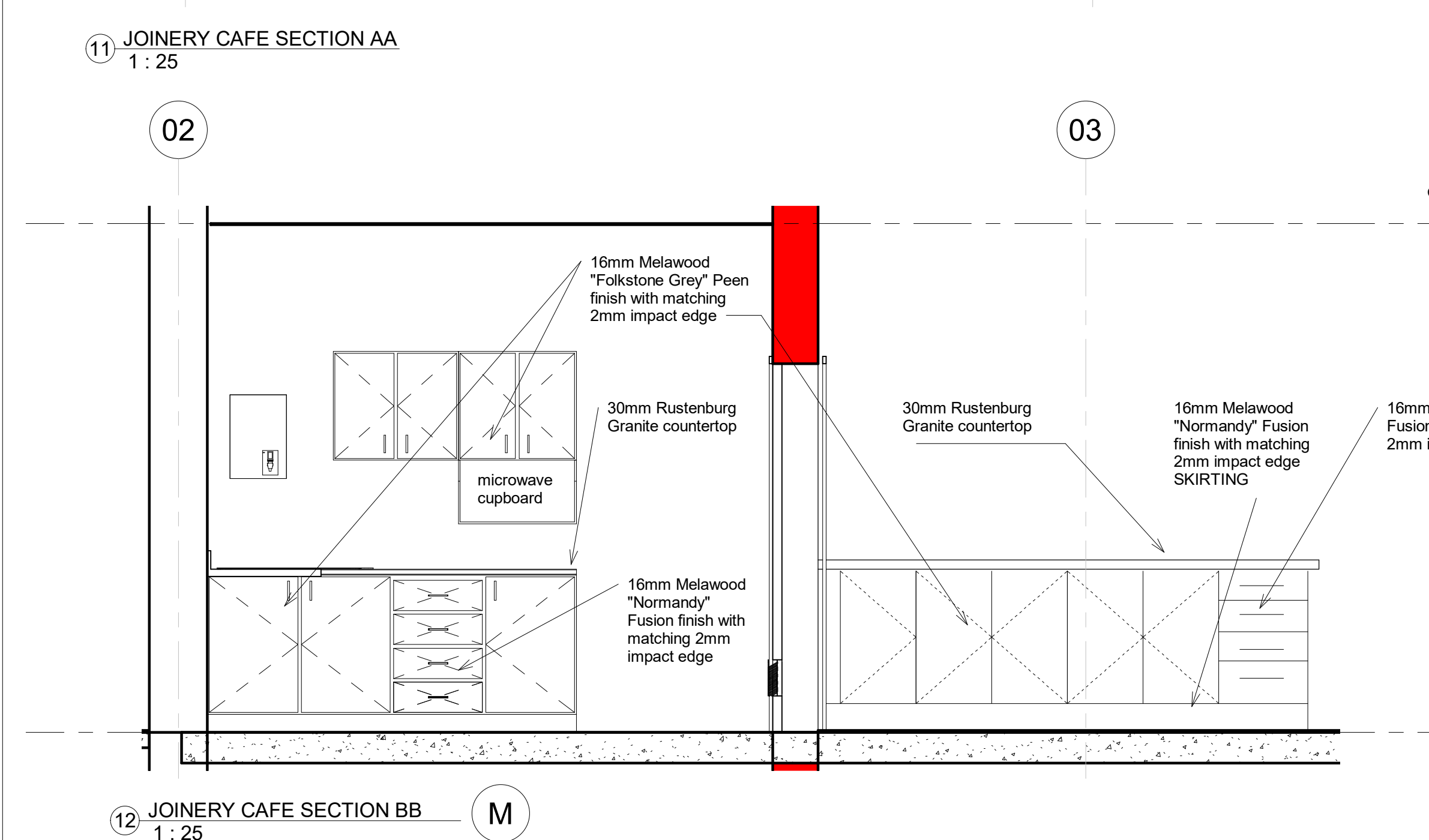
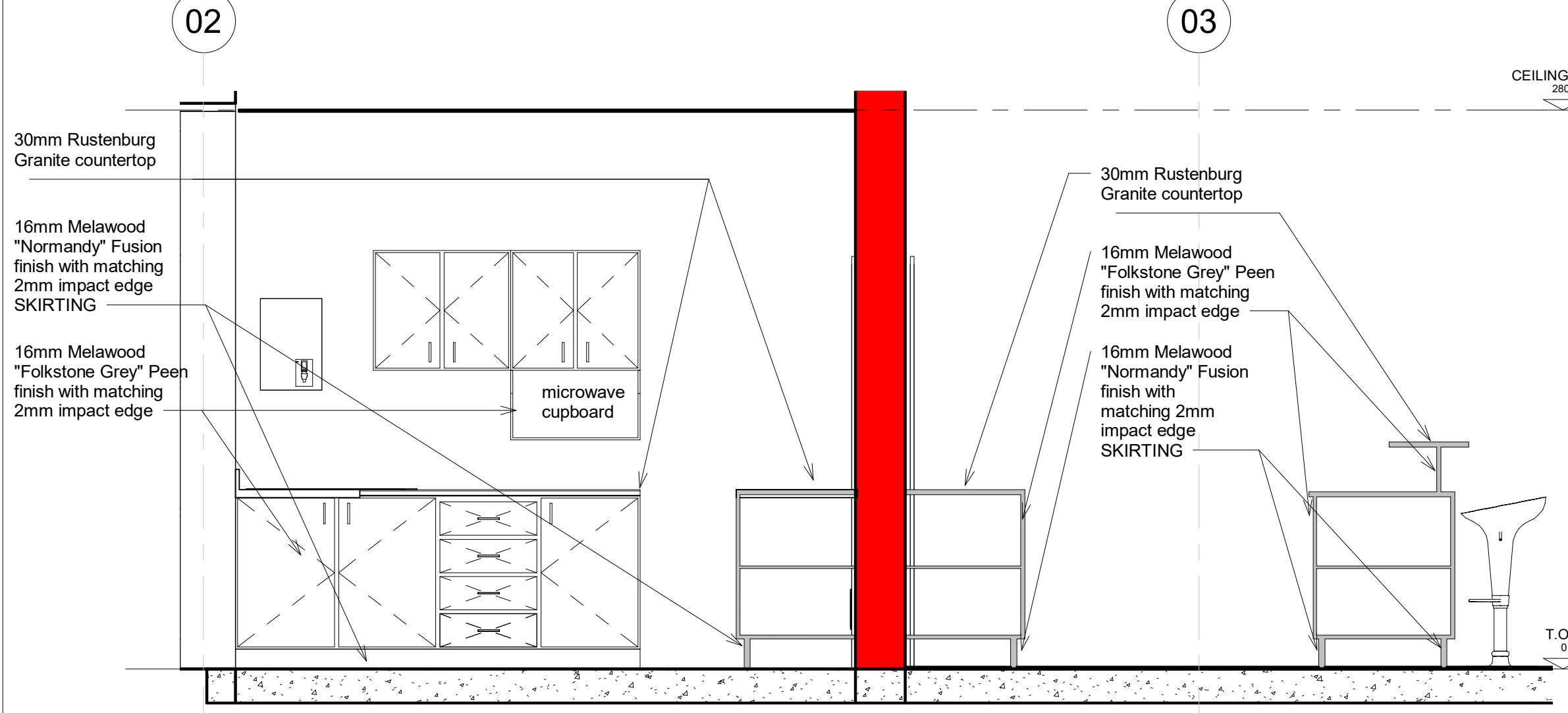
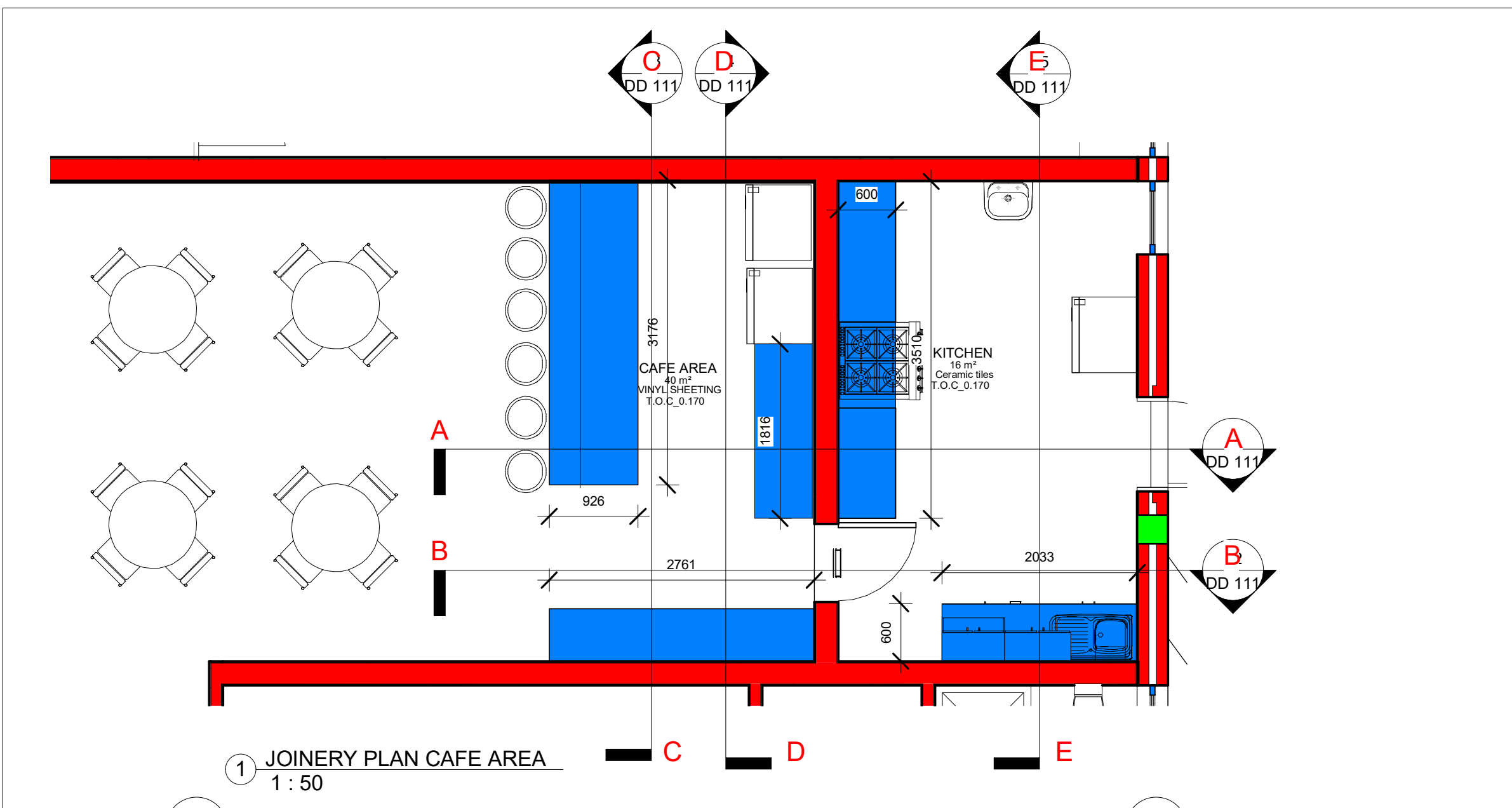
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scales : As indicated

Drawing Description:
JOINERY DETAILS 1

ISSUED FOR TENDER: ☐ ISSUED FOR CONSTRUCTION: ☐ DATE: ☐ ISSUE: ☐

Job No. 2019_59 Drawing No. DD 110 Rev. No. A



JOINERY CONSTRUCTION NOTES.

GENERAL:

1. ALL JOINERY JUNCTIONS ARE TO BE SECRETLY FIXED.
2. NO EXPOSED SCREWS, PLUGS OR FILLERS WILL BE ACCEPTED.
3. ALL COLOURS AND FINISHES ARE TO BE CONFIRMED BY ARCHITECT.
4. SHOPFITTER IS TO PROVIDE SAMPLES OF ALL MATERIALS FOR ARCHITECTS APPROVAL PRIOR TO MANUFACTURE.
5. DEVIATIONS TO THESE JOINERY DRAWINGS ARE TO BE APPROVED BY THE ARCHITECT PRIOR TO THE PREPARATION OF SHOP DRAWINGS.
6. SHOPFITTER TO CHECK ALL DIMENSIONS ON SITE PRIOR TO THE PREPARATION OF SHOP DRAWINGS.
7. SHOPFITTER TO SUPPLY THE ARCHITECT WITH SHOP DRAWINGS FOR APPROVAL PURPOSES PRIOR TO MANUFACTURE.
8. DOORS, DRAWERS FRONT, SKIRTING & CUPBOARD CARCASSES TO BE CONSTRUCTED OUT OF 16MM MELAMINE FACED "V313" MOISTURE RESISTANT PARTICLE BOARD (IDENTIFIABLE BY GREEN IN COLOUR) WITH 2MM HIGH IMPACT EDGING OR 16 X 10mm HARD WOOD EDGING.
9. ONLY WATERPROOF V313(HR) BOARD IS TO BE USED FOR COUNTER TOPS.
10. SUPA WOOD IS ONLY PERMITTED FOR INTERNAL SHELVING, AND NOT FOR CUPBOARD CONSTRUCTION OR EXPOSED EXTERNAL.
11. LOCKSETS FOR CUPBOARDS AND DRAWERS ARE TO BE ALLOWED FOR BY THE SHOPFITTER. SHOPFITTER IS TO HAVE THE SAMPLE LOCKSET APPROVED BY THE ARCHITECT PRIOR TO ORDER AND FITTING.

POWER SUPPLY NOTE:

1. CONTRACTOR IS TO ALLOW FOR POWER MANAGEMENT HOLES THROUGH JOINERY FITTINGS POSITION IS TO BE AS ON DRAWINGS OR AS SHOWN ON SITE.

2. ANY CLASHES WITH ELECTRICAL POINTS E.T.C. TO BE BROUGHT TO THE ARCHITECTS ATTENTION PRIOR TO MANUFACTURE.

CUPBOARDS:

ALL DOORS TO HAVE:

1. PAIR EUROMAT T42 CONCEALED CPBD HINGES WITH 3mm ADJUSTABLE PLATE (032349) AS SUPPLIED BY HETTICH GELMAR O.E.A.
- Handle: Edipse Turkish Bar 14mm square stainless steel finish

CUPBOARD SHELVES:

AS PER ARCHITECTS DETAILS

CUPBOARD CARCASSES:

1. INTERNAL CUPBOARD CARCASSES TO BE CONSTRUCTED OUT OF 16MM WHITE MELAMINE FACED "V313" MOISTURE RESISTANT PARTICLE BOARD (IDENTIFIABLE BY GREEN IN COLOUR) WITH 2MM HIGH IMPACT EDGING OR 16 X 10mm HARD WOOD EDGING REFER TO JOINERY DRAWINGS FOR SPECIFICATION OF COLOUR
2. REAR CLOSURE PANEL TO BE WHITE FACED MASONITE SHEETING WITH OPENINGS FOR PLUMBING PIPES WHERE NECESSARY (MEASURE OUT ON SITE).

DRAWERS:

DRAWER FRONTS:

1. DRAWERS FRONT & SKIRTING TO BE CONSTRUCTED OUT OF 16MM MELAMINE FACED "V313" MOISTURE RESISTANT PARTICLE BOARD (IDENTIFIABLE BY GREEN IN COLOUR) WITH 2MM HIGH IMPACT EDGING OR 16 X 10mm HARD WOOD EDGING EDGING COLOUR TO MATCH COLOUR OF MELAMINE.

DRAWERS AS TO HAVE:

- 467 - 22 NP CYLINDER DRAWERS LATCH AS INDICATED. (LOCKSETS FOR CUPBOARDS AND DRAWERS ARE TO BE ALLOWED FOR BY THE SHOPFITTER.)
- Handle: Edipse Turkish Bar 14mm square stainless steel finish

DRAWER CARCASSES:

1. 18 mm WHITE MELAMINE FINISHED CHIPBOARD DRAWER BOX SECURELY FIXED TO DRAWER FRONT.

ALL DRAWERS AS INDICATED TO HAVE:

1. PAIR FR402L DRAWER RUNNERS AS SUPPLIED BY HETTICH GELMAR O.E.A. TO RUN FULL DEPTH OF DRAWER.

SHELVING UNIT:

WALL BAND: EPOXY COATED STEEL WALLBANDS OR AS SPECIFIED FIXED TO WALL.

BRACKETS:

EPOXY COATED STEEL OR AS SPECIFIED BRACKET COLOUR: WHITE / S STEEL

SKIRTINGS:

JOINERY'S SKIRTING FINISH TO MATCH ROOM'S FLOOR FINISH.

FORMICA SKIRTING - (AT CARPET & TILED FLOOR FINISHES)

1. BLACK FORMICA FINISH OR ALUMINIUM AS NOTED ON DRAWINGS TO 150mm PLINTH.
2. SKIRTING AT TILED FLOOR IS ALUMINIUM SILICONE SEAL CONTINUOUSLY BETWEEN PLINTH & TILES
3. SKIRTING AT CARPET FLOOR IS A PAINTED 75MM MERANTI.

VINYL SKIRTING - (AT VINYL FLOOR FINISH)

1. VINYL LIFTURN SKIRTING TO 150mm ABOVE FINISHED FLOOR LEVEL WITH PC. 20 POLY COVE.
2. VINYL COLOUR AS PER FLOOR COLOUR.

NOTE: JOINERY DETAILS TO BE READ IN CONJUNCTION WITH JOINERY REFERENCE PLANS

FINISHES NOTES:

Worktop 30mm Rustenburg Granite

All drawers, cupboard & open shelves in Melawood Normandy Fusion Finish with impact edging to match.

Carcasses: Melawood Folkstone Grey, Peen finish with impact edges to match.

Skirting: 150mm Vinyl lifturn over plinth.

Support Post: 60 dia. brushed stainless steel support post.

GENERAL DRAWING NOTES

- THE DESIGN ON THIS DRAWING IS COPYRIGHT AND REMAINS THE PROPERTY OF THE ARCHITECT.
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| REV | DESCRIPTION | REV DATE |
|-----|------------------------|------------|
| A | ISSUED FOR INFORMATION | 05.08.2021 |

Owner/Client:

Owner/Client Signature:

Eng. Signature:

Arch. Signature:

Arch. Council No.:

CLIENT / SPONSOR

EKURHULENI EAST COLLEGE
FOR FURTHER EDUCATION AND TRAINING

CONSULTANT

PRO-SERVE CONSULTING
positive impact today... for tomorrow

ARCHITECT

ruben reddy architects

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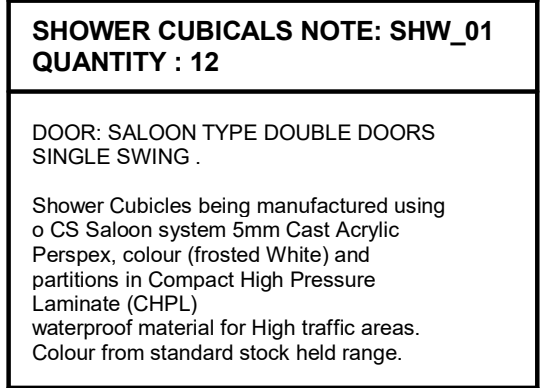
Unit G2 Westwood Office Park, Kudu Street, Altona North, Johannesburg, 1724, South Africa
+27 11 475 6360 | +27 11 475 6364
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Project Title:
EKURHULENI EAST TVET COLLEGE - WELLNESS CENTRE

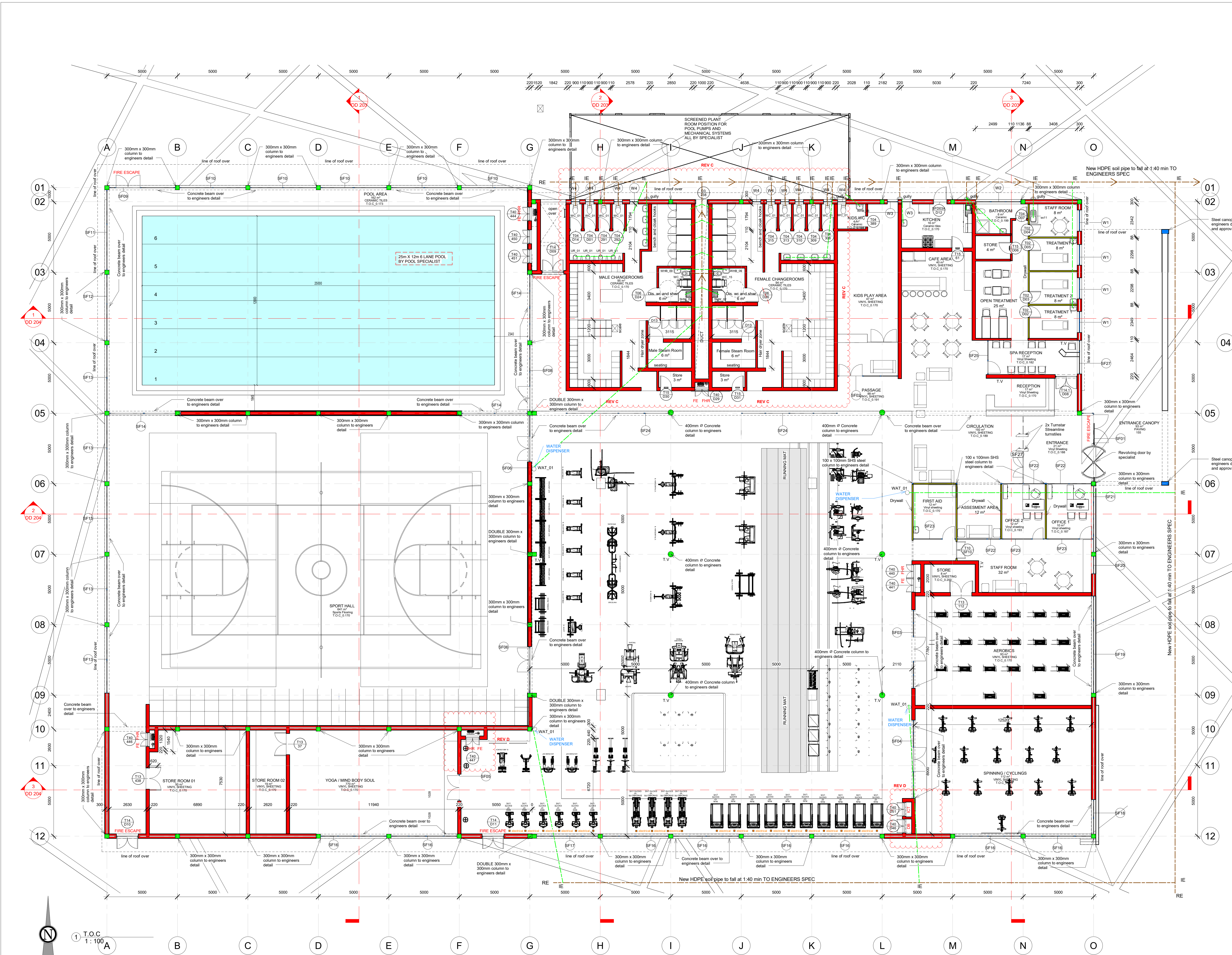
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Drawing Description:
JOINERY DETAILS 2

| ISSUED FOR | ISSUED FOR | DATE | Issue Date |
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| TENDER | CONSTRUCTION | ISSUE | |
| Job No. | Drawing No. | Rev. No. | |
| 2019_59 | DD 111 | A | |



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|---------|-------------|----------|
| Job No. | Drawing No. | Rev. No. |
| 2019 59 | DD 109 | A |



GENERAL NOTES:
ALL WORK TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS SANS 10400-2011.
ALL LEVELS AND DIMENSIONS TO BE CHECKED AND VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK.
ANY DISCREPANCIES TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

GLAZING NOTES:
ALL GLAZING TO COMPLY WITH PART R OF SANS 10400-2011.

STAIR & BALUSTRADE NOTES:
BALUSTRADES, HANDRAILS, HEIGHTS AND OPENINGS TO COMPLY WITH PARTS M & O OF SANS 10400-2011.
BASIC STAIR NOTES:
MAX 200mm RISER MIN 250mm TREAD
BALUSTRADES 1.0m HIGH WITH NO GAP MORE THAN 100mm
IF THE STAIRCASE FORMS PART OF AN ESCAPE ROUTE IT IS TO COMPLY WITH PART R OF SANS 10400-2011.

DEMOLITION WORK:
ALL DEMOLITION WORK TO BE CARRIED OUT IN ACCORDANCE WITH SANS 10400-2011 PART F. NO DEMOLITION WORK IS TO BE CARRIED OUT WITH RELEVANT MUNICIPAL AND/OR CLIENT APPROVAL.

PLUMBING & DRAINAGE:
ALL PLUMBING TO COMPLY WITH PART P OF THE SANS 10400-2011.

ALL WASTE PIPES AND DRAINS TO BE ACCESSIBLE ALONG THEIR ENTIRE LENGTH. PROVIDE INSPECTION EYES AT ALL DRAIN BENDS AND JUNCTIONS OF WASTE PIPES. WASTE TO BE FITTED WITH 40mm DIA TO WIRE, VMC AND SHOWERS. 20mm DIA TO GYSEBS.

ALL VENT PIPES TO DISCHARGE TO EXTERNAL AIR. 50MM DIA WASTE PIPES REQUIRE A 150MM DIA SLEEVE. 110MM DIA WASTE PIPES REQUIRE A 150MM DIA SLEEVE. ALL NEW SEWER LINES TO RUN IN THE CEILING VOID OF THE FLOOR BELOW.

FOR PLUMBING AND DRAINAGE LAYOUT PLANS AND CROSS SECTIONS REFER TO REGISTERED WET SERVICES ENGINEERS' DRAWINGS FOR RATIONAL DESIGN DRAWINGS.
ALL STORM WATER TO BE COLLECTED AND DRAINED TO COMPLY WITH PART P OF THE SANS 10400-2011 AND DRAIN TO MUNICIPAL STORM WATER DRAINAGE SYSTEM TO ENGINEERS' DETAILS.

STRUCTURAL:
ALL REINFORCED CONCRETE WORK AND RETAINING WALLS TO BE STRICTLY IN ACCORDANCE WITH REGISTERED STRUCTURAL ENGINEERS' DETAILS AND SPECIFICATIONS.

MECHANICAL VENTILATION & LIGHTING:
ALL LIGHTING AND VENTILATION (FRESH AIR AND EXTRACT) TO COMPLY WITH PART O (SANS 10400-2011) IN ACCORDANCE WITH REGISTERED MECHANICAL ENGINEERS' DRAWINGS AND REGISTERED ELECTRICAL ENGINEERS' DRAWINGS ALL ARTIFICIAL LIGHTING TO COMPLY.

SANS 10600A WALLS:
NON-MASONRY WALL WILL HAVE 'R' VALUES AS PROVIDED (SANS 10400-2011: 4.4.3.1).
DOUBLE SKING MASONRY WITH PLASTER INSIDE OR RENDER. OUTSIDE COMPLETES SINGLE SKIN. 140MM WITH PLASTER INSIDE AND RENDER OUTSIDE COMPLETES (SANS 10400-2011: 4.4.3.2). OTHER MASONRY WALLS WILL HAVE 'R' VALUE OF 0.35 (SANS 10400-2011: 4.4.3.3).

FENESTRATION:
AIR LEAKAGE SHALL NOT EXCEED 2L/m² FENESTRATION AREA @ 300k Pa. FIXED GLAZING, AND 5 L/m² REVOLVING SWING DOORS (SANS 10400-2011: 4.4.4.1).
FENESTRATION MORE THAN 15% TO NETT FLOOR AREA PER STOREY THEN (SANS 10400-2011: 4.4.4.2).
FENESTRATION UP TO 15% AREA TO NETT FLOOR AREA PER STOREY COMPLETES (SANS 10400-2011: 4.4.4.3).
SOLAR HEAT GAIN AND HEAT CONDUCTANCE TO COMPLY WITH SANS 204-4.3.4.

ENGINEERS NOTES:
* All beams to Engineers spec.
* All foundations & concrete slabs to Engineers spec.
* All excavations to Engineers spec.
* All water run-off above & below ground to Engineers spec.
* No foundations to encroach or breach Building / Servitude lines.

| AREA SCHEDULE | |
|---------------------|-----------------------|
| Area | Name |
| 12 m ² | FIRST AID |
| 17 m ² | RECEPTION |
| 93 m ² | ENTRANCE CANOPY |
| 112 m ² | SPINNING / CYCLINGS |
| 19 m ² | STORE ROOM 02 |
| 50 m ² | STORE ROOM 01 |
| 770 m ² | YOGA / MIND BODY SOUL |
| Redundant Room | WEIGHT TRAINING AREA |
| 93 m ² | AEROBICS |
| 40 m ² | CAFE AREA |
| 16 m ² | KITCHEN |
| 47 m ² | KIDS PLAY AREA |
| 94 m ² | FEMALE CHANGEROOMS |
| Not Placed | PARAPLEGIC |
| Not Placed | STORE 05 |
| 95 m ² | MALE CHANGEROOMS |
| 162 m ² | POOL AREA |
| 641 m ² | SPORT HALL |
| 17 m ² | SPA RECEPTION |
| 4 m ² | KIDS WC |
| 10 m ² | OFFICE 1 |
| 21 m ² | ENTRANCE |
| 192 m ² | CIRCULATION |
| 88 m ² | PASSAGE |
| 12 m ² | ASSESSMENT AREA |
| 12 m ² | OFFICE 2 |
| 8 m ² | TREATMENT 1 |
| 8 m ² | TREATMENT 2 |
| 8 m ² | TREATMENT 3 |
| 8 m ² | STAFF ROOM |
| 4 m ² | STORE |
| 6 m ² | BATHROOM |
| 8 m ² | STORE |
| 32 m ² | STAFF ROOM |
| 25 m ² | OPEN TREATMENT |
| 3 m ² | Store |
| 3 m ² | Store |
| 6 m ² | Male Steam Room |
| 6 m ² | Female Steam Room |
| 6 m ² | Dis. wc and shwr |
| 6 m ² | Dis. wc and shwr |
| 2748 m ² | |

| LEGEND | |
|---|----|
| 100mm PVC SEWER DRAINAGE PIPE TO ENGINEERS SPEC | |
| 40mm PVC WASTE WATER PIPE TO ENGINEERS SPEC | |
| 100mm PVC VENT STACK TO ENGINEERS SPEC | |
| RODDING EYE | RE |
| INSPECTION EYE | IE |

| LEGEND | |
|---|--|
| 300mm BRICK CAVITY WALL | |
| 230mm BRICK WALL | |
| 110mm BRICK WALL | |
| 88mm DRY WALLING | |
| CONCRETE COLUMN | |
| ELECTRICAL FLOOR PLUG POINT FOR GYM EQUIPMENT | |

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- CONTRACTOR TO CHECK ALL QUANTITIES PRIOR TO ORDERING AND MANUFACTURE.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO MANUFACTURE.

| REV | DESCRIPTION | REV DATE |
|-----|-------------------------|------------|
| A | CHANGEROOM STRUCTURE | 28.02.2020 |
| B | REVISED INTERNAL LAYOUT | 05.03.2020 |
| C | REVISED INTERNAL LAYOUT | 05.03.2020 |
| D | REVISED DB LAYOUT | 09.10.2020 |

Owner/Client:

Owner/Client Signature:

Eng. Signature:

Arch. Signature:

Arch. Council no. :

CLIENT / SPONSOR

COVERAGE = 3310 m² EAST COLLEGE FOR FURTHER EDUCATION AND TRAINING

CONSULTANT

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positive impact today... for tomorrow

ARCHITECT

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info@rubenreddyarch.co.za | www.rubenreddyarch.co.za

Project Title:
EKURHULENI EAST TVET COLLEGE - WELLNESS CENTRE

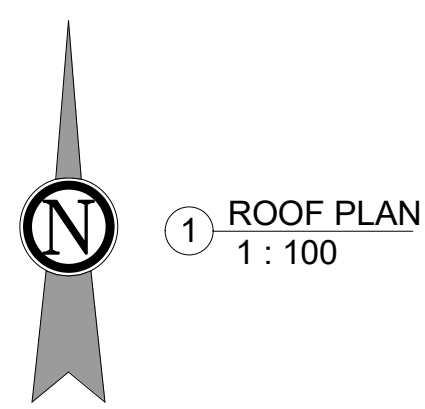
date : 03/09/2021 10:22:41 scales :
drawn : Author As indicated

Drawing Description:
PROPOSED WELLNESS CENTRE

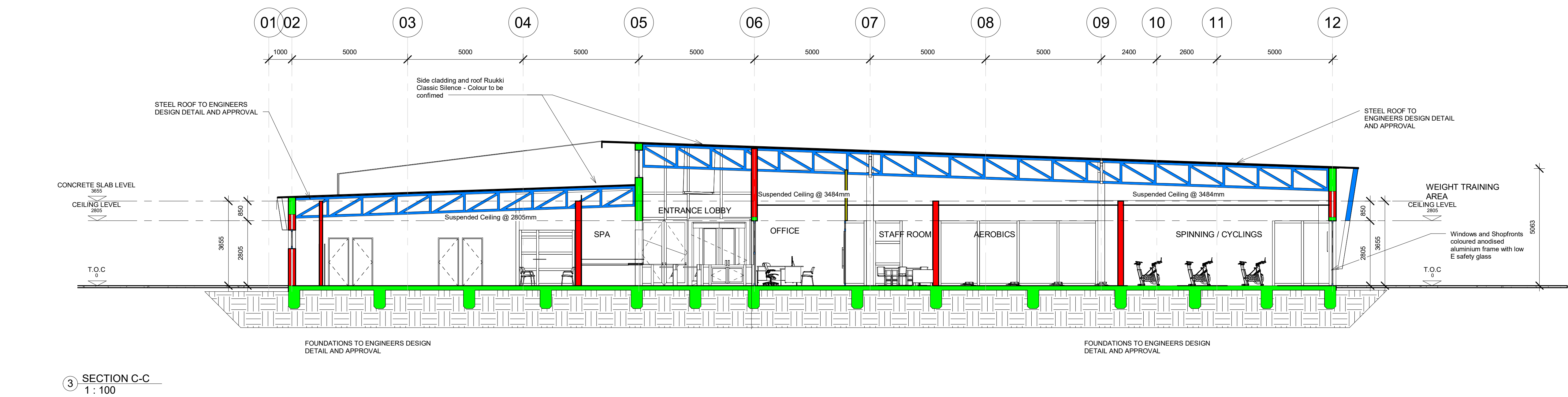
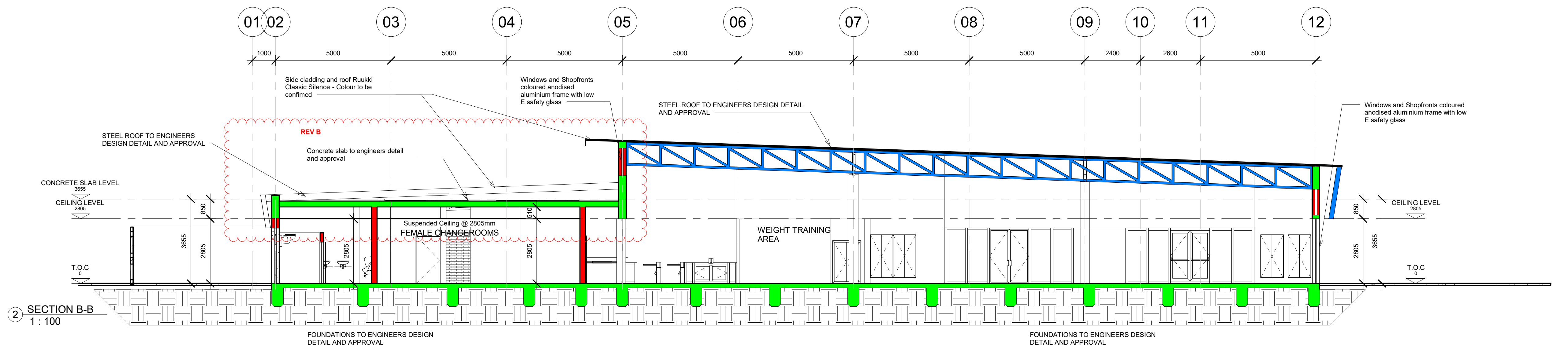
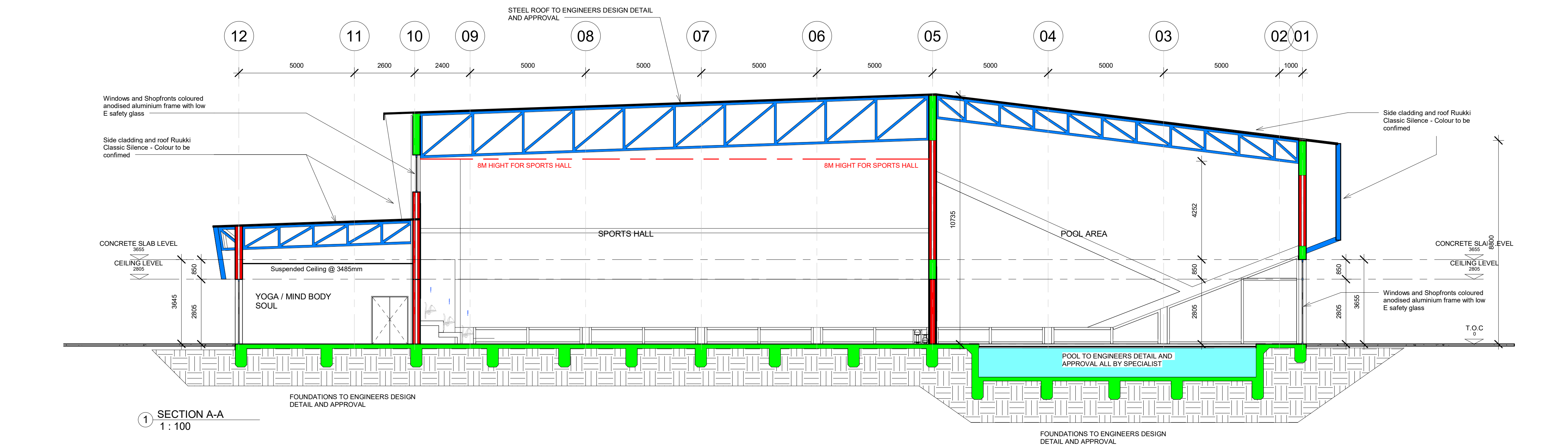
| ISSUED FOR TENDER: | ISSUED FOR CONSTRUCTION: | DATE | Issue Date |
|--------------------|--------------------------|------|------------|
| | | | |

| Job No. | Drawing No. | Rev. No. |
|---------|-------------|----------|
| 2019_59 | DD 102 | D |

FOR INFORMATION ONLY

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| ISSUED FOR TENDER: | <input type="checkbox"/> | ISSUED FOR CONSTRUCTION: | <input type="checkbox"/> | DATE ISSUED: | Issue Date |
| Job No. | Drawing No. | | | Rev. No. | |
| 2019_59 | DD 103 | | | B | |



GENERAL NOTES:

- ALL WORK TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS SANS 10400-2011.
- ALL LEVELS AND DIMENSIONS TO BE CHECKED AND VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ANY DISCREPANCIES TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

GLAZING NOTES:

- ALL GLAZING TO COMPLY WITH PART N OF SANS 10400-2011.

STAIR & BALUSTRADE NOTES:

- BALUSTRADES HANDRAILS HEIGHTS AND OPENINGS TO COMPLY WITH PARTS M & D OF SANS 10400-2011.
- BASIC STAIR NOTES
- MAX 200mm RISER MIN 250mm TREAD
- BALUSTRADES 1.0m HIGH WITH NO GAP MORE THAN 100mm
- IF THE STAIRCASE FORMS PART OF AN ESCAPE ROUTE IT IS TO COMPLY WITH PART M OF SANS 10400-2011.

DEMOLITION WORK:

- ALL DEMOLITION WORK TO BE CARRIED OUT IN ACCORDANCE WITH SANS 10400-2011 PART E
- NO DEMOLITION WORK IS TO BE CARRIED OUT WITH RELEVANT MUNICIPAL AND/OR CLIENT APPROVAL

PLUMBING & DRAINAGE:

- ALL PLUMBING TO COMPLY WITH PART P OF THE SANS 10400-2010
- ALL WASTE PIPES AND DRAINS TO BE ACCESSIBLE ALONG THEIR ENTIRE LENGTH. PROVIDE INSPECTION EYES AT ALL DRAIN BENDS AND JUNCTIONS AND AT A MAX. 25m ALONG STRAIGHT RUNS.
- CLEANING EYES TO BE PROVIDED AT ALL BENDS AND JUNCTIONS OF WASTE PIPES. WASTE TO BE FITTED WITH 40mm RESEAL TRAPS.
- WATER CONNECTIONS TO FITTINGS: 15mm DIA TO WVB, WC AND SHOWERS 20mm DIA TO GEYSERS 25mm DIA TO FHR
- ALL VENT PIPES TO DISCHARGE TO EXTERNAL AIR
- 100MM WASTE PIPES REQUIRE A 75MM Ø SLEEVE
- 110MM WASTE PIPES REQUIRE A 150MM Ø SLEEVE
- ALL NEW SEWER LINES TO RUN IN THE CEILING VOID OF THE FLOOR BELOW

FOR PLUMBING AND DRAINAGE LAYOUT PLANS AND CROSS SECTIONS REFER TO REGISTERED WET SERVICES ENGINEERS' DRAWINGS FOR RATIONAL DESIGN DRAWINGS

ALL STORMWATER TO BE COLLECTED AND DRAINED TO COMPLY WITH PART P OF THE SANS 10400-2010 AND DRAIN TO MUNICIPAL STORMWATER DRAINAGE SYSTEM TO ENGINEERS DETAILS

STRUCTURAL:

- ALL REINFORCED CONCRETE WORK AND RETAINING WALLS TO BE STRICTLY IN ACCORDANCE WITH REGISTERED STRUCTURAL ENGINEERS' DETAILS AND SPECIFICATIONS

MECHANICAL VENTILATION & LIGHTING:

- ALL LIGHTING AND VENTILATION FRESH AIR AND EXTRACT TO COMPLY WITH PART O (SANS 10400-2011)
- IN ACCORDANCE WITH REGISTERED MECHANICAL ENGINEERS' DRAWINGS
- AND REGISTERED ELECTRICAL ENGINEERS' DRAWINGS
- ALL ARTIFICIAL LIGHTING TO COMPLY.

SANS 10400XA

WALLS:

- NON-MASONRY WALL WILL HAVE 'R' VALUES AS PROVIDED. (SANS 10400-XA-4.4.3.1)
- DOUBLE SKING MASONRY WITH PLASTER INSIDE OR RENDER OUTSIDE COMPLEX SINGLE LEAF. MIN. 140MM WITH PLASTER INSIDE AND RENDER OUTSIDE COMPLEX. (SANS 10400-XA-4.4.3.2)
- OTHER MASONRY WALLS WILL HAVE 'R' VALUE OF 0.35. (SANS 10400-XA-4.4.3.3)

FENESTRATION:

- AIR LEAKAGE SHALL NOT EXCEED 2L/hm² FENESTRATION AREA. 0.306 L/hm² FIXED GLAZING; AND 5 L/hm² REVOLVING SWING DOORS. (SANS 10400-XA-4.4.1.1)
- FENESTRATION MORE THAN 15% TO NETT FLOOR AREA PER STOREY THEN (SANS 10400-XA-4.4.4.2)
- FENESTRATION UP TO 15% AREA TO NETT FLOOR AREA PER STOREY COMPLEX (SANS 10400-XA-4.4.4.1)
- SOLAR HEAT GAIN AND HEAT CONDUCTANCE TO COMPLY WITH SANS 204-4.3.4.

ENGINEERS NOTES:

- * All beams to Engineers spec.
- * All foundations & concrete slabs to Engineers spec.
- * All excavations to Engineers spec.
- * All water run-off above & below ground to engineers spec.
- * No foundations to encroach or breach Building / Servitude lines.

GENERAL DRAWING NOTES:

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- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO MANUFACTURE.

| REV | DESCRIPTION | REV DATE |
|-----|---------------------|------------|
| A | CHANGEROOM ROOF | 28.02.2020 |
| B | CONCRETE SLAB ADDED | 05.03.2020 |
| | PLANT ROOM ADDED | |

Owner/Client:

Owner/Client Signature:

Eng. Signature:

Arch. Signature:

Arch. Council no.:

CLIENT / SPONSOR

EKURHULENI EAST COLLEGE
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CONSULTANT

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ARCHITECT

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info@proservearch.co.za | www.proservearch.co.za

Project Title:
EKURHULENI EAST TVET COLLEGE - WELLNESS CENTRE

date: 03/09/2021 10:40:59 scales: As indicated

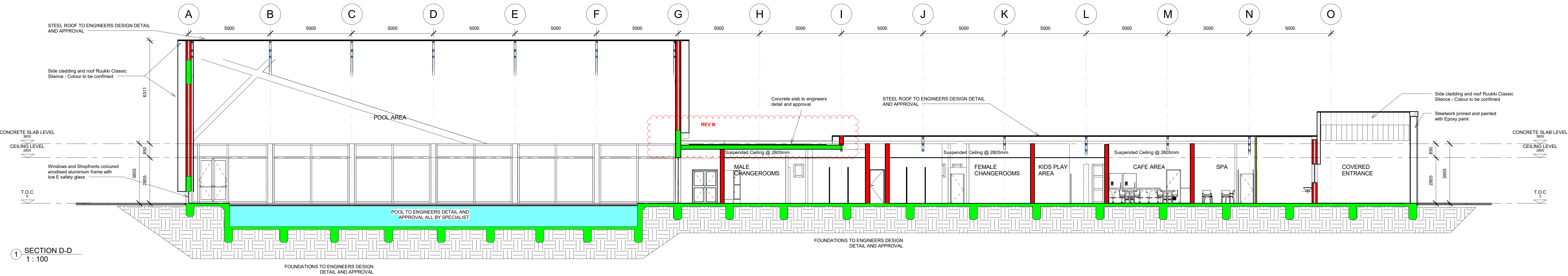
drawn: Author

Drawing Description:
SECTIONS AA-BB-CC

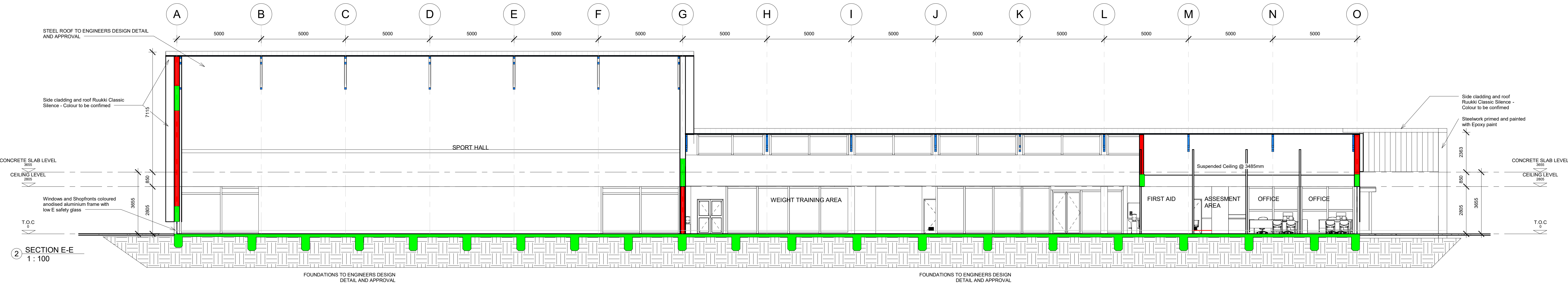
| ISSUED FOR TENDER: | ISSUED FOR CONSTRUCTION: | DATE: | Issue Date: |
|--------------------|--------------------------|-------|-------------|
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Job No. 2019_59 Drawing No. DD 203 Rev. No. B

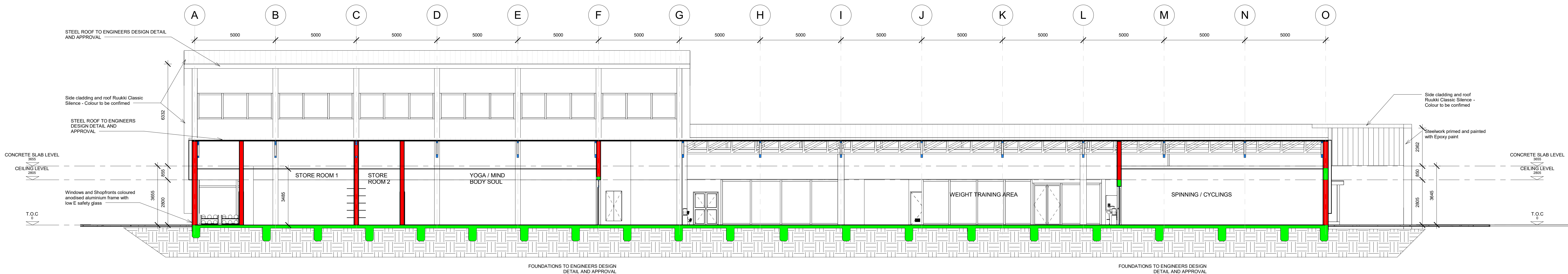
FOR INFORMATION ONLY



1 SECTION D-D
1 : 100



2 SECTION E-E
1 : 100



3 SECTION F-F
1 : 100

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 - ALL RELEVANT DATUM, LEVELS, DIMENSIONS TO BE CHECKED ON SITE BEFORE COMMENCEMENT OF WORK
 - ALL DRAWINGS ARE TO BE CHECKED BY THE MAIN CONTRACTOR AND ANY DISCREPANCIES ON THE DRAWINGS OR BETWEEN THE DRAWINGS ARE TO BE REFERRED TO THE ARCHITECT
 - CONTRACTOR TO CHECK ALL QUANTITIES PRIOR TO ORDERING AND MANUFACTURE
 - CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO MANUFACTURE

| REV | DESCRIPTION | REV DATE |
|-----|---------------------|------------|
| A | CHANGEROOM ROOF | 28.02.2020 |
| B | CONCRETE SLAB ADDED | 05.03.2020 |
| | PLANT ROOM ADDED | |

Owner/Client:

Owner/Client Signature:

Eng. Signature:

Arch. Signature:

Arch. Council no. :

CLIENT / SPONSOR



CONSULTANT



ARCHITECT



Project Title:
**EKURHULENI EAST TVET
COLLEGE - WELLNESS CENTRE**

date : 03/09/2021 16:42:32
drawn : Author

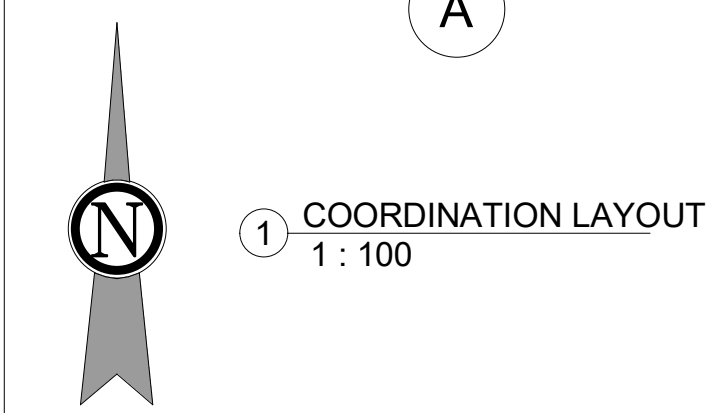
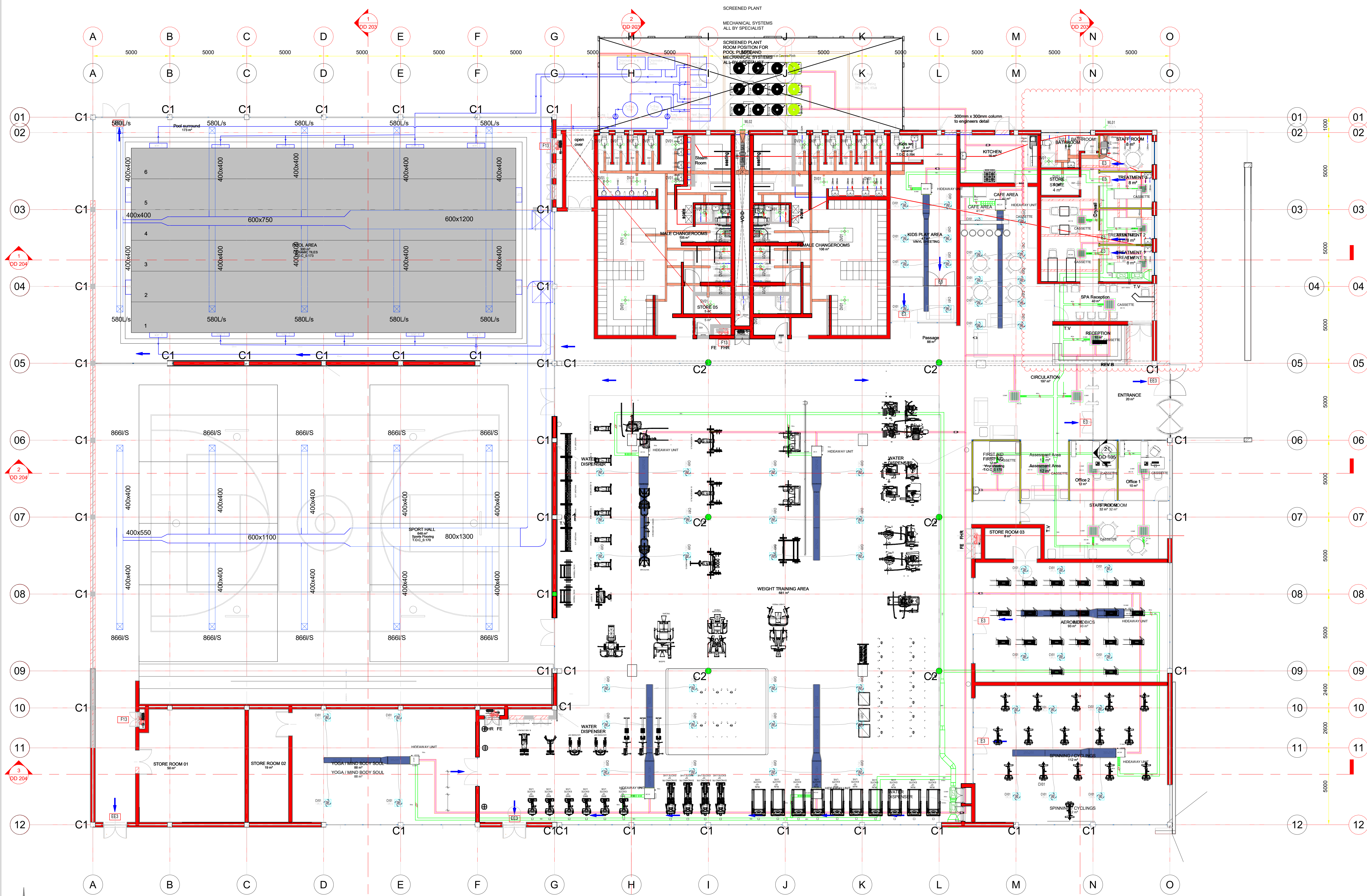
scales :
1 : 100

Drawing Description:
SECTIONS DD-EE-FF

ISSUED FOR: ☐ TENDER ☐ ISSUED FOR CONSTRUCTION ☐ DATE: ☐ DATE: ☐ DATE: ☐ DATE: ☐

Job No. 2019_59 Drawing No. DD 204 Rev. No. B

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GENERAL NOTES:
ALL WORK TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS SANS 10400 - 2011. ALL LEVELS AND DIMENSIONS TO BE CHECKED AND VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

GLAZING NOTES:
ALL GLAZING TO COMPLY WITH PART N OF SANS 10400 - 2011.

STAIR BALUSTRADE NOTES:
BALUSTRADES, HANDRAILS, HEIGHTS AND OPENINGS TO COMPLY WITH PART M & O OF SANS 10400 - 2011.
MAX 200mm RISER MIN 220mm TREAD
BALUSTRADES 1.0m HIGH WITH NO GAP MORE THAN 100mm

IF THE STAIRCASE FORMS PART OF AN ESCAPE ROUTE IT IS TO COMPLY WITH PART M OF SANS 10400 - 2011.

DEMOLITION WORK:
ALL DEMOLITION WORK TO BE CARRIED OUT IN ACCORDANCE WITH SANS 10400 - 2011 PART F. NO DEMOLITION WORK IS TO BE CARRIED OUT WITH RELEVANT MUNICIPAL AND/OR CLIENT APPROVAL.

PLUMBING & DRAINAGE:
ALL PLUMBING TO COMPLY WITH PART P OF THE SANS 10400 - 2010.

**ALL WASTE PIPES AND DRAINS TO BE ACCESSIBLE ALONG THEIR ENTIRE LENGTH. PROVIDE INSPECTION EYES AT ALL DRAIN BENDS AND JUNCTIONS AND AT A MAX. 25m ALONG STRAIGHT RUNS. CLEANING EYES TO BE PROVIDED AT ALL BENDS AND JUNCTIONS OF WASTE PIPES. WASTE TO BE FITTED WITH:
60mm RESSAL TRAPS
15mm DIA TO WHB, W/C AND SHOWERS
25mm DIA TO CISTERNES
25mm DIA TO FHR
ALL VENT PIPES TO DISCHARGE TO EXTERNAL AIR
50MM? WASTE PIPES REQUIRE A 75MM Ø SLEEVE
110MM? WASTE PIPES REQUIRE A 150MM Ø SLEEVE
ALL NEW SEWER LINES TO RUN IN THE CEILING VOID OF THE FLOOR BELOW.**

STRUCTURAL:
ALL REINFORCED CONCRETE WORK AND RETAINING WALLS TO BE STRICTLY IN ACCORDANCE WITH REGISTERED STRUCTURAL ENGINEERS DETAILS AND SPECIFICATIONS.

MECHANICAL VENTILATION & LIGHTING:
ALL LIGHTING AND VENTILATION (FRESH AIR AND EXTRACT) TO COMPLY WITH PART Q (SANS 10400 - 2011) IN ACCORDANCE WITH REGISTERED MECHANICAL ENGINEERS DRAWINGS AND REGISTERED ELECTRICAL ENGINEERS DRAWINGS. ALL ARTIFICIAL LIGHTING TO COMPLY.

SANS 10400-XA WALLS:
NON-MASONRY WALL WILL HAVE 'R' VALUES AS PROVIDED (SANS 10400 - XA - 4.4.3.1).
DOUBLE BRICK MASONRY WITH PLASTER INSIDE OR RENDER OUTSIDE COMPLES SINGLE LEAF, MIN. 140mm WITH PLASTER INSIDE AND RENDER OUTSIDE COMPLES (SANS 10400-XA - 4.4.3.2).
OTHER MASONRY WALLS WILL HAVE 'R' VALUE OF 0.35. (SANS 10400 - XA - 4.4.3.3).

FENESTRATION:
AIR LEAKAGE SHALL NOT EXCEED 2L/m²/h FENESTRATION AREA @ 306 L/m²/h FIXED GLAZING AND 5 L/m²/h REVOLVING DOORS (SANS 10400 - XA - 4.4.1.1).
FENESTRATION MORE THAN 15% TO NETT FLOOR AREA PER STOREY THEN (SANS 10400-XA - 4.4.2.2).
FENESTRATION UP TO 15% AREA TO NETT FLOOR AREA PER STOREY COMPLES (SANS 10400-XA - 4.4.2.1).
SOLAR HEAT GAIN AND HEAT CONDUCTANCE TO COMPLY WITH SANS 204-4.3.4.

ENGINEERS NOTES:
* All beams to Engineers spec.
* All foundations & concrete slabs to Engineers spec.
* All excavations to Engineers spec.
* All water run-off above & below ground to engineers spec.
* No foundations to encroach or breach Building / Servitude lines.

| AREA SCHEDULE | |
|---------------------|-----------------------|
| Area | Name |
| 12 m ² | FIRST AID |
| 10 m ² | RECEPTION |
| 93 m ² | ENTRANCE CANOPY |
| 112 m ² | SPINNING / CYCLINGS |
| 19 m ² | STORE ROOM 02 |
| 50 m ² | STORE ROOM 01 |
| 770 m ² | YOGA / MIND BODY SOUL |
| Redundant Room | WEIGHT TRAINING AREA |
| 93 m ² | AEROBICS |
| 40 m ² | CAFE AREA |
| 16 m ² | KITCHEN |
| 47 m ² | KIDS PLAY AREA |
| 94 m ² | FEMALE CHANGEROOMS |
| Not Placed | PARAPLEGIC |
| Not Placed | STORE 05 |
| 95 m ² | MALE CHANGEROOMS |
| 162 m ² | POOL AREA |
| 641 m ² | SPORT HALL |
| 17 m ² | SPA RECEPTION |
| 4 m ² | KIDS WC |
| 10 m ² | OFFICE 1 |
| 20 m ² | ENTRANCE |
| 193 m ² | CIRCULATION |
| 88 m ² | PASSAGE |
| 12 m ² | ASSESSMENT AREA |
| 8 m ² | OFFICE 2 |
| 8 m ² | TREATMENT 1 |
| 8 m ² | TREATMENT 2 |
| 8 m ² | TREATMENT 3 |
| 8 m ² | STAFF ROOM |
| 4 m ² | STORE |
| 6 m ² | BATHROOM |
| 8 m ² | STORE |
| 32 m ² | STAFF ROOM |
| 25 m ² | OPEN TREATMENT |
| 3 m ² | Store |
| 3 m ² | Store |
| 6 m ² | Male Steam Room |
| 6 m ² | Female Steam Room |
| 6 m ² | Dis. wc and shwr |
| 6 m ² | Dis. wc and shwr |
| 2742 m ² | |

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- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO MANUFACTURE.

| REV | DESCRIPTION | REV DATE |
|-----|------------------------|------------|
| A | REVISED CEILING LAYOUT | 05.03.2020 |

Owner/Client:

Owner/Client Signature:

Eng. Signature:

Arch. Signature:

Arch. Council No. :

CLIENT / SPONSOR

CONSULTANT

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positive impact today... for tomorrow

ARCHITECT

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Project Title:

EKURHULENI EAST TVET COLLEGE - WELLNESS CENTRE

| | |
|----------------------------|--------------|
| date : 16/07/2021 12:42:28 | scales : |
| drawn : Author | As indicated |

Drawing Description:

SERVICES COORDINATION LAYOUT

| | | |
|--------------------|--------------------------|-------------|
| ISSUED FOR TENDER: | ISSUED FOR CONSTRUCTION: | DATE ISSUE: |
| | | |

Job No. 2019_59 Drawing No. DD 107 Rev. No. A

FOR INFORMATION ONLY

[illegible]

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| REV | DESCRIPTION | REV DATE |
|-----|------------------------|------------|
| A | REVISED CEILING LAYOUT | 05.03.2020 |

Arch. Council no.

CLIENT / SPONSOR



Unit C6 Westwood Office Park, Kudu Street, Allens Nek, Roodepoort, 1724

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South Africa
+27 11 475 8360 | +27 11 475 8364
info@bernardiborchers.co.za | www.bernardiborchers.co.za

date : 16/07/2021 12:52:18

drawn : Aug 2008

cooling :

As indicated

Drawing Description:
SHOPFRONT SCHEDULE

| | | | | | |
|------------|--|------------|--|------|------------|
| ISSUED FOR | | ISSUED FOR | | DATE | Issue Date |
|------------|--|------------|--|------|------------|

| | | |
|---------|-------------|----------|
| Job No. | Drawing No. | Rev. No. |
| 2019 59 | DD 105 | A |

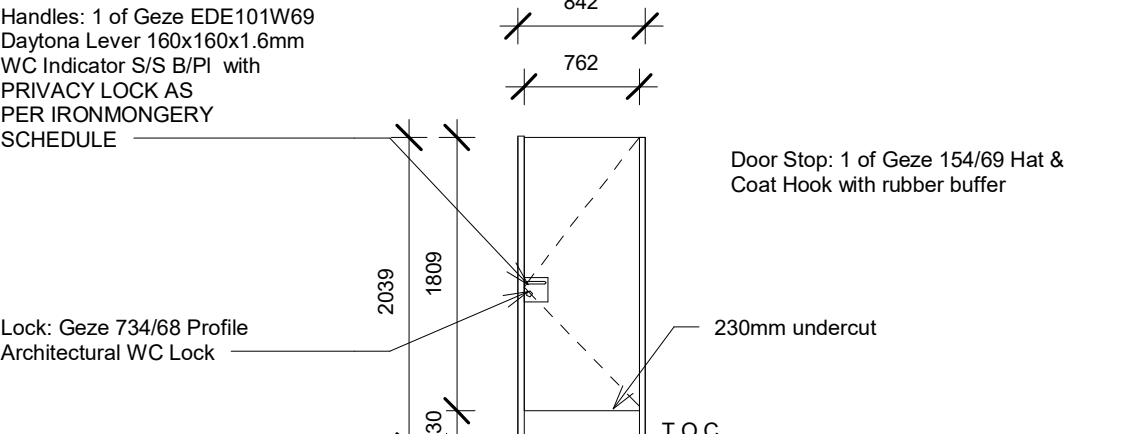
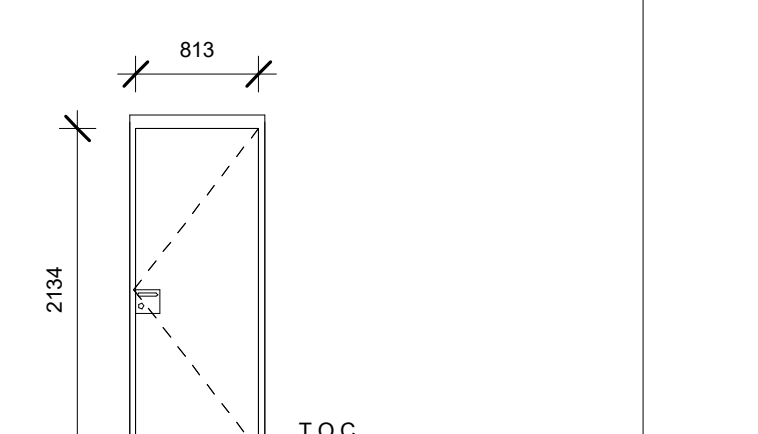
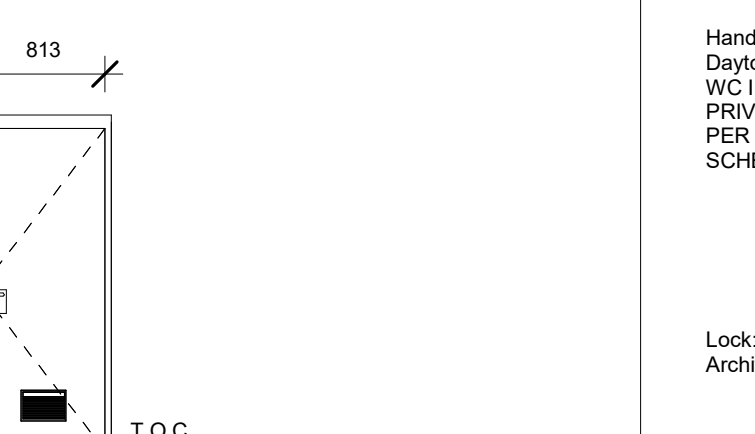
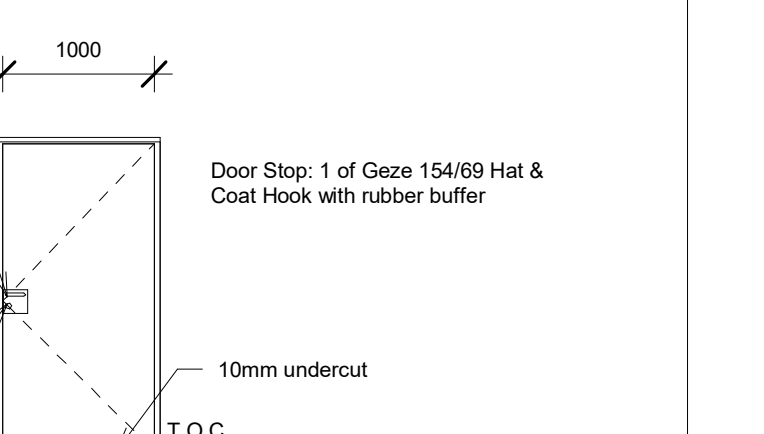
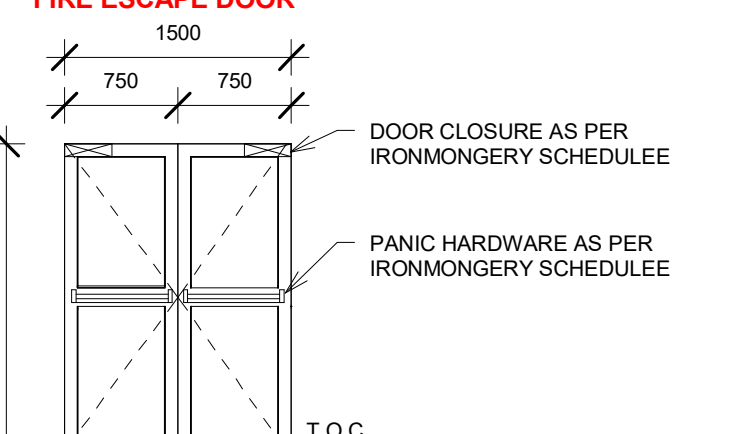
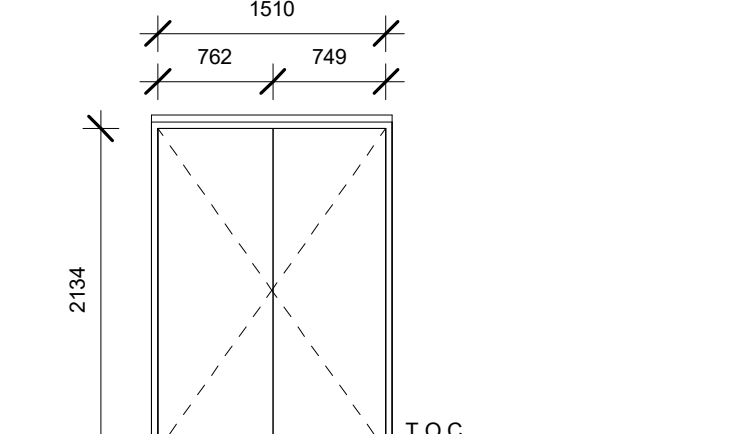
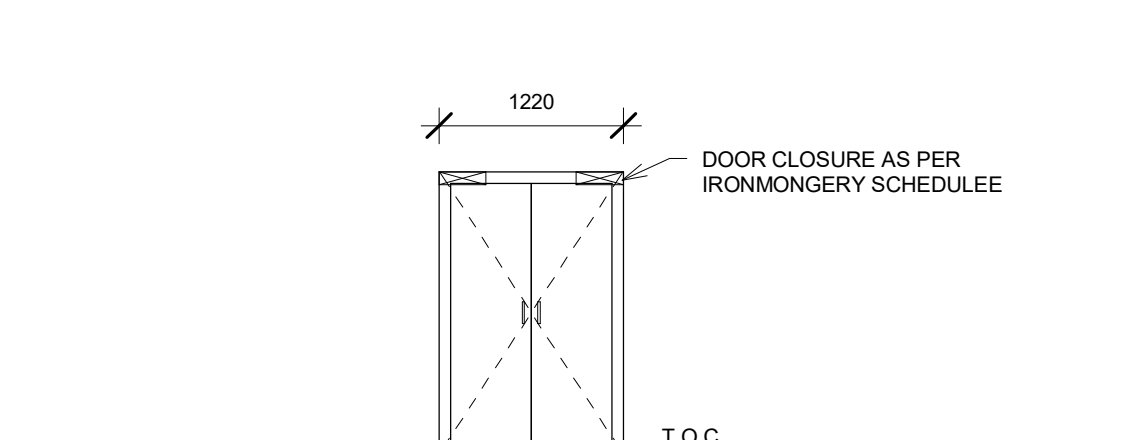
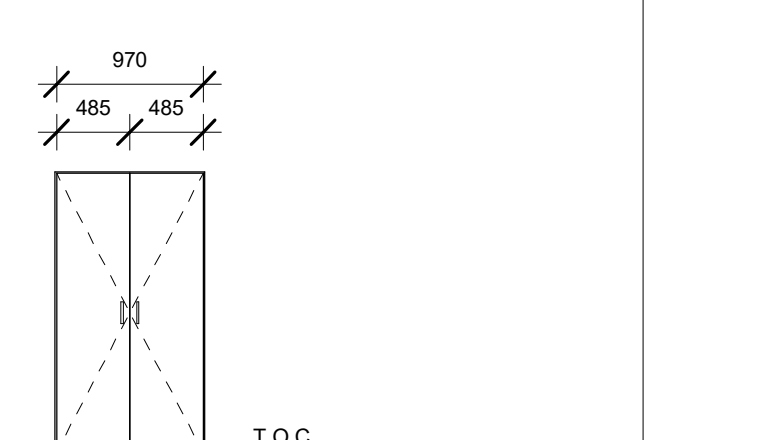

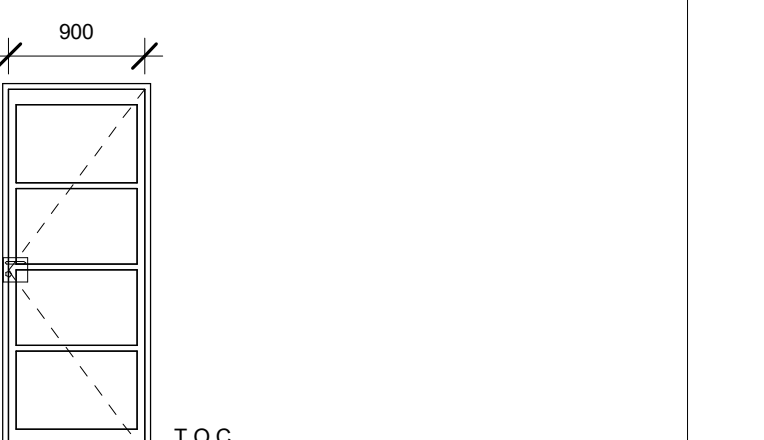
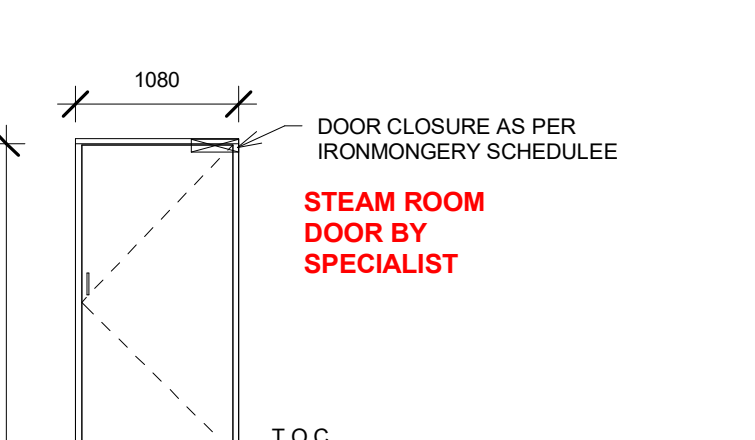
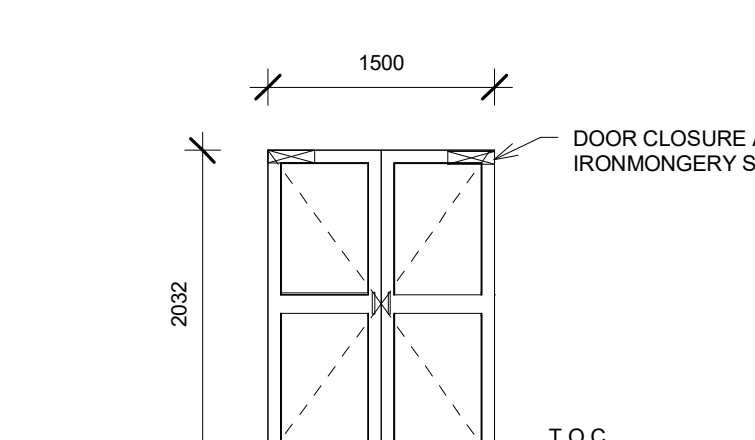
DRAWING and INFORMATION REGISTER

TVET COLLEGE: WELLNESS CENTRE

Sheet 1 of 10

| | | | | | | | | | | | | | | | | | | | | |
|-------------------------|--|-----------------------|------------|----------------|------------|------------|-----------------------|------------|--|---|--|-----------------------|--|--|--|--|--|--|--|--|
| Project No. | 2019_59 | | 28.02.2020 | 05.03.2020 | 05.08.2020 | 09.10.2020 | 17.11.2020 | 05.08.2021 | | | | | | | | | | | | |
| Register date of issue: | 22.10.2021 | | | | | | | | | | | | | | | | | | | |
| Distribution: | | Copies: | | | | | | | | | | | | | | | | | | |
| Client | Ekuruleni East TVET College | | | | | | | | | | | | | | | | | | | |
| Civil Engineer: | Tembakele Consulting Engineers | | | | | | | | | | | | | | | | | | | |
| Electrical Engineer: | HDM Engineering | | | | | | | | | | | | | | | | | | | |
| Fire Consultant: | HDM Engineering | | | | | | | | | | | | | | | | | | | |
| Mechanical Engineer: | HDM Engineering | | | | | | | | | | | | | | | | | | | |
| Structural Engineer: | Tembakele Consulting Engineers | | | | | | | | | | | | | | | | | | | |
| Project Manager: | Pro Serve Group | | | | | | | | | | | | | | | | | | | |
| Quantity Surveyor: | Pro Serve Group | | | | | | | | | | | | | | | | | | | |
| Land Surveyors: | | | | | | | | | | | | | | | | | | | | |
| Transport Engineer: | | | | | | | | | | | | | | | | | | | | |
| Health and Safety: | | | | | | | | | | | | | | | | | | | | |
| Landscape Architect: | Ruben Reddy Architects & 690 Signature Group | | | | | | | | | | | | | | | | | | | |
| Wet Services Engineers | | | | | | | | | | | | | | | | | | | | |
| Contract Manager: | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Drawing No. | | Size: | Revisions | | | | | | | | | | | | | | | | | |
| PLANS | | | | | | | | | | | | | | | | | | | | |
| BLOCK 7 EAST | | | | | | | | | | | | | | | | | | | | |
| DD-102 | PLAN | A0 | A | B | C | D | | | | | | | | | | | | | | |
| DD-103 | ROOF PLAN | A0 | A | B | | | | | | | | | | | | | | | | |
| DD-104 | CEILING AND LIGHTING LAYOUT | A0 | | A | | | | | | | | | | | | | | | | |
| DD-105 | SHOPFRONT SCHEDULE | A0 | | A | | | | | | | | | | | | | | | | |
| DD-106 | WINDOW AND DOOR SCHEDULE | A0 | | A | | | | | | | | | | | | | | | | |
| DD-107 | SERVICES COORDINATION | A0 | | A | | | | | | | | | | | | | | | | |
| DD-108 | XA CALCULATION | A0 | | A | | | | | | | | | | | | | | | | |
| DD-109 | LOCKERS CALL OUT | A0 | | A | | | | | | | | | | | | | | | | |
| DD-201 | ELEVATIONS | A0 | | A | B | | | | | | | | | | | | | | | |
| DD-203 | SECTIONS AA BB CC | A0 | | A | B | | | | | | | | | | | | | | | |
| DD-204 | SECTIONS DD EE FF | A0 | | A | B | | | | | | | | | | | | | | | |
| DD-110 | JOINERY DETAILS 1 | A0 | | | | | | | | A | | | | | | | | | | |
| DD-111 | JOINERY DETAILS 2 | A0 | | | | | | | | A | | | | | | | | | | |
| | IRONMONGARY SCHEDULE | A4 | | | | | | | | A | | | | | | | | | | |
| | SANITARY SCHEDULE | A4 | | | | | | | | A | | | | | | | | | | |
| | FURNITURE AND FITTINGS SCHEDULE | A4 | | | | | | | | A | | | | | | | | | | |
| | FINISHES SCHEDULE | A4 | | | | | | | | A | | | | | | | | | | |
| | LOCKERS AND CUBICAL SPEC | A4 | | | | | | | | A | | | | | | | | | | |
| PURPOSE OF ISSUE: | | SIGNED: | | DATE RECEIVED: | | | | | | | | | | | | | | | | |
| Key: | Issued in colour - C | Issued by Dropbox - D | | | | | Issued via e-mail - E | | | | | Issued on a disk - CD | | | | | | | | |

WELLNESS CENTRE DOOR SCHEDULE

| T02 | | T15 | | T06 | | T14 | | T13 | | | |
|---|--|---|--|--|--|--|--|--|--|---|--|
| DIMENSIONS TO BE VERIFIED ON SITE | | DIMENSIONS TO BE VERIFIED ON SITE | | DIMENSIONS TO BE VERIFIED ON SITE | | DIMENSIONS TO BE VERIFIED ON SITE | | DIMENSIONS TO BE VERIFIED ON SITE | | | |
| <div>Handles: 1 of Geze EDE101W99 Daytara Lever 160x160x15mm WC Industry S/S B/P with PRIVACY LOCK AS PER IRONMONGERY SCHEDULE</div> <div></div> <div>Door Stop: 1 of Geze 154/89 Hat & Coat Hook with rubber buffer</div> <div>Lock: Geze 734/88 Profile Architectural WC Lock</div> <div>230mm undercut</div> <div>T.O.C</div> | | <div></div> <div>T.O.C</div> | | <div></div> <div>T.O.C</div> | | <div>Handles: 1 of Geze EDE101W99 Daytara Lever 160x160x15mm WC Industry S/S B/P with PRIVACY LOCK AS PER IRONMONGERY SCHEDULE</div> <div></div> <div>Door Stop: 1 of Geze 154/89 Hat & Coat Hook with rubber buffer</div> <div>Lock: Geze 734/88 Profile Architectural WC Lock</div> <div>10mm undercut</div> <div>T.O.C</div> | | <div>FIRE ESCAPE DOOR</div> <div></div> <div>DOOR CLOSURE AS PER IRONMONGERY SCHEDULEE</div> <div>PANIC HARDWARE AS PER IRONMONGERY SCHEDULEE</div> <div>T.O.C</div> | | <div></div> <div>T.O.C</div> | |
| DESCRIPTION: 1800mm x 762mm Semi solid timber door, primed and painted in strict accordance with the manufactures specification, color to be specified by architect | | DESCRIPTION: 2032mm x 813mm Semi solid timber door, primed and painted in strict accordance with the manufactures specification, color to be specified by architect | | DESCRIPTION: 2032mm x 813mm Semi solid timber door with 300mm x 200mm aluminum grille, primed and painted in strict accordance with the manufactures specification, color to be specified by architect | | DESCRIPTION: 2032mm x 1000mm Semi solid timber door, primed and painted in strict accordance with the manufactures specification, color to be specified by architect | | DESCRIPTION: 2032mm x 1500mm Purpose made natural anodised aluminium door with glazing panels, aluminium size and door configuration as per detail drawing on approved sub-contractors drawings architect to approve. | | DESCRIPTION: 2032mm x 1511mm solid timber door, primed and painted in strict accordance with the manufactures specification, color to be specified by architect | |
| FRAME MS (intand) pressed metal frame to suit door & wall, primed and painted in strict accordance with manufactures specification, color to be specified by architect. | | FRAME Purpose made natural anodised aluminium door frame to suit door & wall, colour: natural anodised | | FRAME MS (intand) pressed metal frame to suit door & wall, primed and painted in strict accordance with manufactures specification, color to be specified by architect. | | FRAME MS (intand) pressed metal frame to suit door & wall, primed and painted in strict accordance with manufactures specification, color to be specified by architect. | | FRAME Purpose made natural anodised aluminium door frame to suit door & wall, colour: natural anodised | | FRAME MS (intand) pressed metal frame to suit door & wall, primed and painted in strict accordance with manufactures specification, color to be specified by architect. | |
| HINGES Refer to Ironmongery schedule. | | HINGES Refer to Ironmongery schedule. | | HINGES Refer to Ironmongery schedule. | | HINGES Refer to Ironmongery schedule. | | HINGES As per manufactures specification. | | HINGES Refer to Geze Ironmongery schedule. | |
| GLAZING n/a | | GLAZING n/a | | GLAZING n/a | | GLAZING n/a | | GLAZING exposed edges of wall opening to be dressed with 25x25 naa angle corner protectors. | | GLAZING n/a | |
| IRONMONGERY Refer to Ironmongery schedule. | | IRONMONGERY Refer to Ironmongery schedule. | | IRONMONGERY Refer to Ironmongery schedule. | | IRONMONGERY Refer to Ironmongery schedule. | | IRONMONGERY Clear safety glazing to AAMSA approved specifications to suit aluminium door as shown. Refer to Ironmongery schedule. | | IRONMONGERY Refer to Geze Ironmongery schedule. | |
| QTY 11 | | QTY 4 | | QTY 4 | | QTY 2 | | QTY 3 | | QTY 3 | |
| T10 | | T40 | | D3 | | D12 | | D13 | | T14.1 | |
| DIMENSIONS TO BE VERIFIED ON SITE | | DIMENSIONS TO BE VERIFIED ON SITE | | DIMENSIONS TO BE VERIFIED ON SITE | | DIMENSIONS TO BE VERIFIED ON SITE | | DIMENSIONS TO BE VERIFIED ON SITE | | DIMENSIONS TO BE VERIFIED ON SITE | |
| <div></div> <div>DOOR CLOSURE AS PER IRONMONGERY SCHEDULEE</div> <div>T.O.C</div> | | <div></div> <div>T.O.C</div> | | <div></div> <div>T.O.C</div> | | <div></div> <div>T.O.C</div> | | <div></div> <div>DOOR CLOSURE AS PER IRONMONGERY SCHEDULEE</div> <div>STEAM ROOM DOOR BY SPECIALIST</div> <div>T.O.C</div> | | <div></div> <div>DOOR CLOSURE AS PER IRONMONGERY SCHEDULEE</div> <div>T.O.C</div> | |
| DESCRIPTION: 2040mm x 1200mm Purpose made natural anodised aluminium door with glazing panels, aluminium size and door configuration as per detail drawing on approved sub-contractors drawings architect to approve. | | DESCRIPTION: 1840mm x 970mm Semi solid timber door, primed and painted in strict accordance with the manufactures specification, color to be specified by architect | | DESCRIPTION: 2032mm x 813mm DUCT solid timber door, primed and painted in strict accordance with the manufactures specification, color to be specified by architect | | DESCRIPTION: 2100mm x 900mm Purpose made aluminium door with glazing panels, aluminium size and door configuration as per detail drawing on approved sub-contractors drawings architect to approve. | | DESCRIPTION: 2100mm x 900mm Purpose made aluminium door with glazing panels, aluminium size and door configuration as per detail drawing on approved sub-contractors drawings architect to approve. | | DESCRIPTION: 2032mm x 1500mm Purpose made natural anodised aluminium door with glazing panels, aluminium size and door configuration as per detail drawing on approved sub-contractors drawings architect to approve. | |
| FRAME Purpose made natural anodised aluminium door frame to suit door & wall, colour: natural anodised | | FRAME MS (intand) pressed metal frame to suit door & wall, primed and painted in strict accordance with manufactures specification, color to be specified by architect. | | FRAME MS (intand) pressed metal frame to suit door & wall, primed and painted in strict accordance with manufactures specification, color to be specified by architect. | | FRAME Purpose made aluminium door frame to suit door & wall, and wall, colour: natural anodised | | FRAME Purpose made aluminium door frame to suit door & wall, and wall, colour: natural anodised | | FRAME Purpose made natural anodised aluminium door frame to suit door & wall, and wall, colour: natural anodised | |
| HINGES As per manufactures specification. | | HINGES Refer to Ironmongery schedule. | | HINGES Refer to Ironmongery schedule. | | HINGES As per manufactures specification. | | HINGES As per manufactures specification. | | HINGES As per manufactures specification. | |
| GLAZING Clear safety glazing to AAMSA approved specifications to suit aluminium door as shown. | | GLAZING n/a | | GLAZING n/a | | GLAZING exposed edges of wall opening to be dressed with 25x25 naa angle corner protectors. | | GLAZING exposed edges of wall opening to be dressed with 25x25 naa angle corner protectors. | | GLAZING exposed edges of wall opening to be dressed with 25x25 naa angle corner protectors. | |
| IRONMONGERY Refer to Ironmongery schedule. | | IRONMONGERY Refer to Ironmongery schedule. | | IRONMONGERY Refer to Ironmongery schedule. | | IRONMONGERY Clear safety glazing to AAMSA approved specifications to suit aluminium door as shown. Refer to Ironmongery schedule. | | IRONMONGERY Clear safety glazing to AAMSA approved specifications to suit aluminium door as shown. Refer to Ironmongery schedule. | | IRONMONGERY Clear safety glazing to AAMSA approved specifications to suit aluminium door as shown. Refer to Ironmongery schedule. | |
| QTY 1 | | QTY 10 | | QTY 10 | | QTY 1 | | QTY 2 | | QTY 1 | |

WELLNESS CENTRE WINDOW SCHEDULE

| | | | | | | | | | | | | | | | | | |
|----------|---|--|----------|---|--|----------|---|--|----------|---|--|----------|---|--|----------|---|--|
| W01 | DIMENSIONS TO BE VERIFIED ON SITE | | W02 | DIMENSIONS TO BE VERIFIED ON SITE | | W03 | DIMENSIONS TO BE VERIFIED ON SITE | | W04 | DIMENSIONS TO BE VERIFIED ON SITE | | W05 | DIMENSIONS TO BE VERIFIED ON SITE | | W06 | DIMENSIONS TO BE VERIFIED ON SITE | |
| | | | | | | | | | | | | | | | | | |
| FRAME | Purpose made anodised aluminium. Window system or approved to meet AAAMSA A&B performance specifications. Colour TBC aluminium specifically manufactured for external applications. | | FRAME | Purpose made anodised aluminium. Window system or approved to meet AAAMSA A&B performance specifications. Colour TBC aluminium specifically manufactured for external applications. | | FRAME | Purpose made anodised aluminium. Window system or approved to meet AAAMSA A&B performance specifications. Colour TBC aluminium specifically manufactured for external applications. | | FRAME | Purpose made anodised aluminium. Window system or approved to meet AAAMSA A&B performance specifications. Colour TBC aluminium specifically manufactured for external applications. | | FRAME | Purpose made anodised aluminium. Window system or approved to meet AAAMSA A&B performance specifications. Colour TBC aluminium specifically manufactured for external applications. | | FRAME | Purpose made anodised aluminium. Window system or approved to meet AAAMSA A&B performance specifications. Colour TBC aluminium specifically manufactured for external applications. | |
| GLAZING | low E. glass to later specification | | GLAZING | low E. glass to later specification | | GLAZING | low E. glass to later specification | | GLAZING | low E. glass to later specification | | GLAZING | low E. glass to later specification | | GLAZING | low E. glass to later specification | |
| FINISH | Purpose made Anodised aluminium Colour TBC | | FINISH | Purpose made Anodised aluminium Colour TBC | | FINISH | Purpose made Anodised aluminium Colour TBC | | FINISH | Purpose made Anodised aluminium Colour TBC | | FINISH | Purpose made Anodised aluminium Colour TBC | | FINISH | Purpose made Anodised aluminium Colour TBC | |
| QTY | 4 | | QTY | 1 | | QTY | 2 | | QTY | 10 | | QTY | 2 | | QTY | 6 | |
| FITTINGS | Ironmongery and fittings to be approved suppliers specifications. | | FITTINGS | Ironmongery and fittings to be approved suppliers specifications. | | FITTINGS | Ironmongery and fittings to be approved suppliers specifications. | | FITTINGS | Ironmongery and fittings to be approved suppliers specifications. | | FITTINGS | Ironmongery and fittings to be approved suppliers specifications. | | FITTINGS | Ironmongery and fittings to be approved suppliers specifications. | |
| W07 | DIMENSIONS TO BE VERIFIED ON SITE | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| FRAME | Purpose made anodised aluminium. Window system or approved to meet AAAMSA A&B performance specifications. Colour TBC aluminium specifically manufactured for external applications. | | | | | | | | | | | | | | | | |
| GLAZING | low E. glass to later specification | | | | | | | | | | | | | | | | |
| FINISH | Purpose made Anodised aluminium Colour TBC | | | | | | | | | | | | | | | | |
| QTY | 6 | | | | | | | | | | | | | | | | |
| FITTINGS | Ironmongery and fittings to be approved suppliers specifications. | | | | | | | | | | | | | | | | |

GENERAL DRAWING NOTES

1. THE DESIGN ON THIS DRAWING IS COPYRIGHT AND REMAINS THE PROPERTY OF THE ARCHITECTS.
2. ALL WORK TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH MUNICIPAL REGULATIONS.
3. DRAWINGS NOT TO BE SCALED: ONLY ANNOTATED DIMENSIONS TO BE USED.
4. ALL RELEVANT DATUM, LEVELS, DIMENSIONS TO BE CHECKED ON SITE BEFORE COMMENCEMENT OF WORK.
5. ALL DRAWINGS ARE TO BE CHECKED BY THE MAIN CONTRACTOR AND ANY DISCREPANCIES ON THE DRAWINGS OR BETWEEN THE DRAWINGS ARE TO BE REFERRED TO THE ARCHITECT.
6. CONTRACTOR TO CHECK ALL QUANTITIES PRIOR TO ORDERING AND MANUFACTURE.
7. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO MANUFACTURE.

| REV | DESCRIPTION | REV DATE |
|-----|------------------------|------------|
| A | REVISED CEILING LAYOUT | 05.03.2020 |

Owner/Client:

Owner/Client Signature: _____

Eng. Signature

Arch. Signature

Arch. Council no.

CLIENT / SPONSOR



CONSULTANT



ARCHITECT



Project Title:
EKURHULENI EAST TVET
COLLEGE - WELLNESS CENTRE

date : 16/07/2021 12:51:35

drawn : Author

scales :

As indicated

Drawing Description:
WINDOW AND DOOR SCHEDULE

ISSUED FOR ☐ ISSUED FOR ☐ DATE Issue Date

| | | |
|---------|-------------|----------|
| Job No. | Drawing No. | Rev. No. |
| 2019 59 | DD 106 | A |

FOR INFORMATION ONLY

Project Description: TVET COLLEGE - WELLNESS CENTRE
Site Address: EKURHULENI EAST
Cadastral Description: Erf

Energy Efficiency in Buildings

EKURHULENI EAST

Occupancy Classification of Building

Occupancy: **A2** Design Occupancy Time: **18** Hrs per Day
Building Total Nett Floor Area: **2743.00** m²
Building Total Floor Area: **2743.00** m²
Days per Week: **7**

Climatic Zone of Building

Climatic Zone: **2**

Maximum Energy Demand & Consumption

Design Assumption for Building Classification
Max. Energy Demand: **80** VA/m² Max. Energy Demand: **219.44** kVA (kW)
Max. Energy Consumption: **400** kWh/(m²) Max. Annual Energy Consumption: **1097200** kWh

Building Orientation

Orientation of windows / longer building axis: **North** Optimal orientation achieved

Dominant windows of habitable rooms or longer axis of the building to be orientated within 15 deg's of true north.

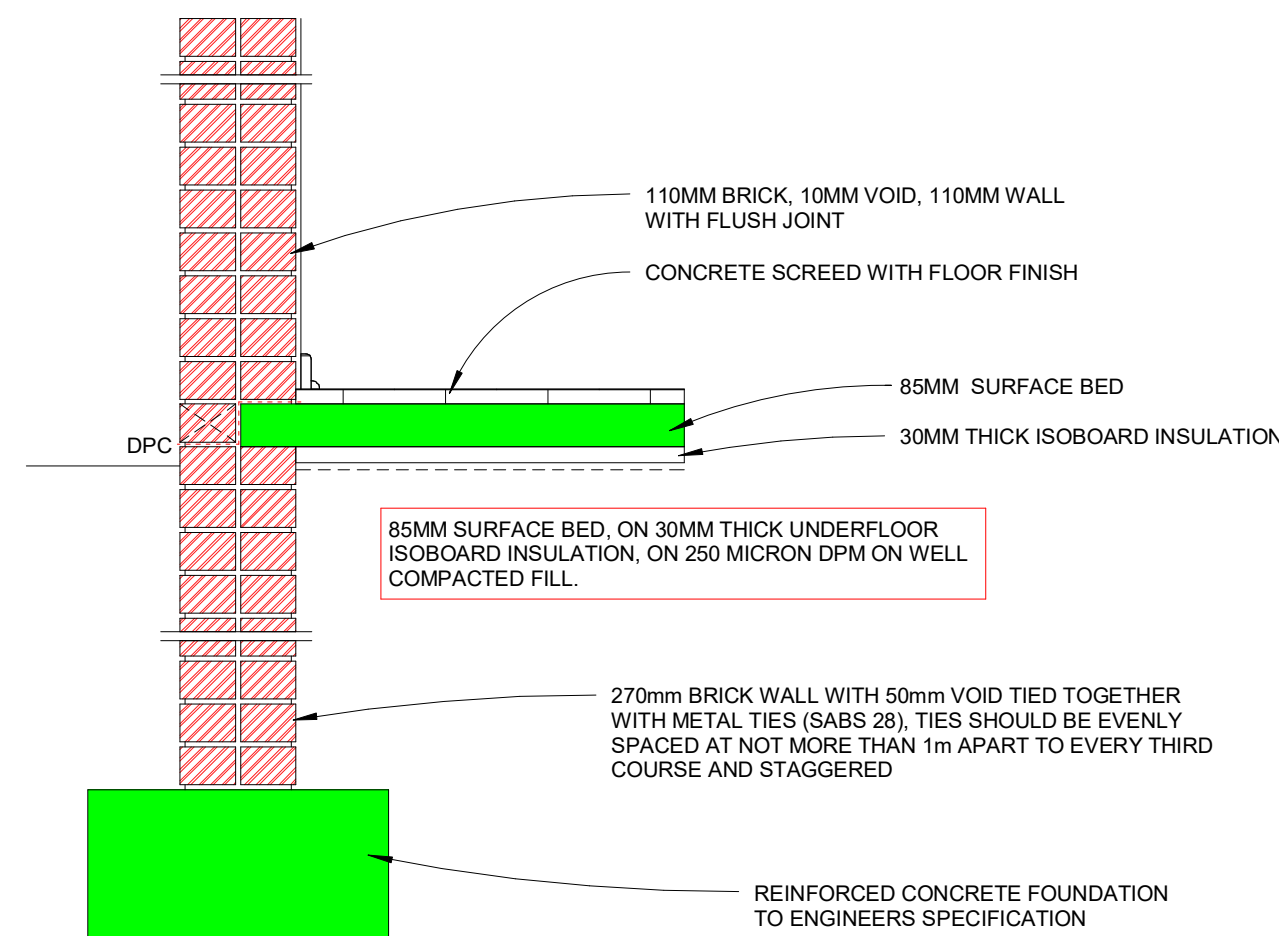
Floor Construction

Slab-on-ground Concrete slab-on-ground? **Yes**
In-slab heating to be provided? **No**
Insulation Requirements
Slab-on-ground Perimeter insulation required? **Yes** Min. Insulation R-value: 1.0 & refer SANS 10400-XA (4.4.2) / SANS 204 (4.3.2)
Under-floor insulation required? **No**
Suspended floor Suspended floor as building envelope? **No**
In-slab heating to be provided? **No**

External Wall Construction

SANS 10400-XA Required R-value
Wall Type? **Masonry**
Minimum R-value required: **0.35** Refer SANS 10400-XA (4.4.3) & SANS 204 - Table 4 and Advisory Note.
Compliant masonry walling: Double-skin masonry wall, no cavity, plastered internally or rendered externally, or Single-leaf masonry wall, nominal wall thickness not < 140 mm, plastered internally and rendered externally.
SANS 204 Required CR-value
Minimum CR-value required: **80** Hours
Advisory Note - Applicable to masonry walls only in terms of SANS 204
Double brick wall types: **With R = 0.5 cavity insulation** CR-value: **90**

Achieved Aggregate Conductance / Solar Heat Gain
Ground Storey
Conductance (C_g) for Storey / Room: **2725.13** Conductance (C_g) for Storey / Room: **1115.07**
Solar Heat Gain (C_{SHGC}) for Storey / Room: **288.84** Solar Heat Gain (C_{SHGC}) for Storey / Room: **40.32**



FOUNDATION DETAIL

R-VALUE = 1.071

refer to electrical engineers drawings for lighting layouts and calculations

ALL XA CALCULATIONS ARE COMPLIANT AND IN ACCORDANCE TO SANS 1400 PART XA

Fenestration – Buildings with Natural Environmental Control

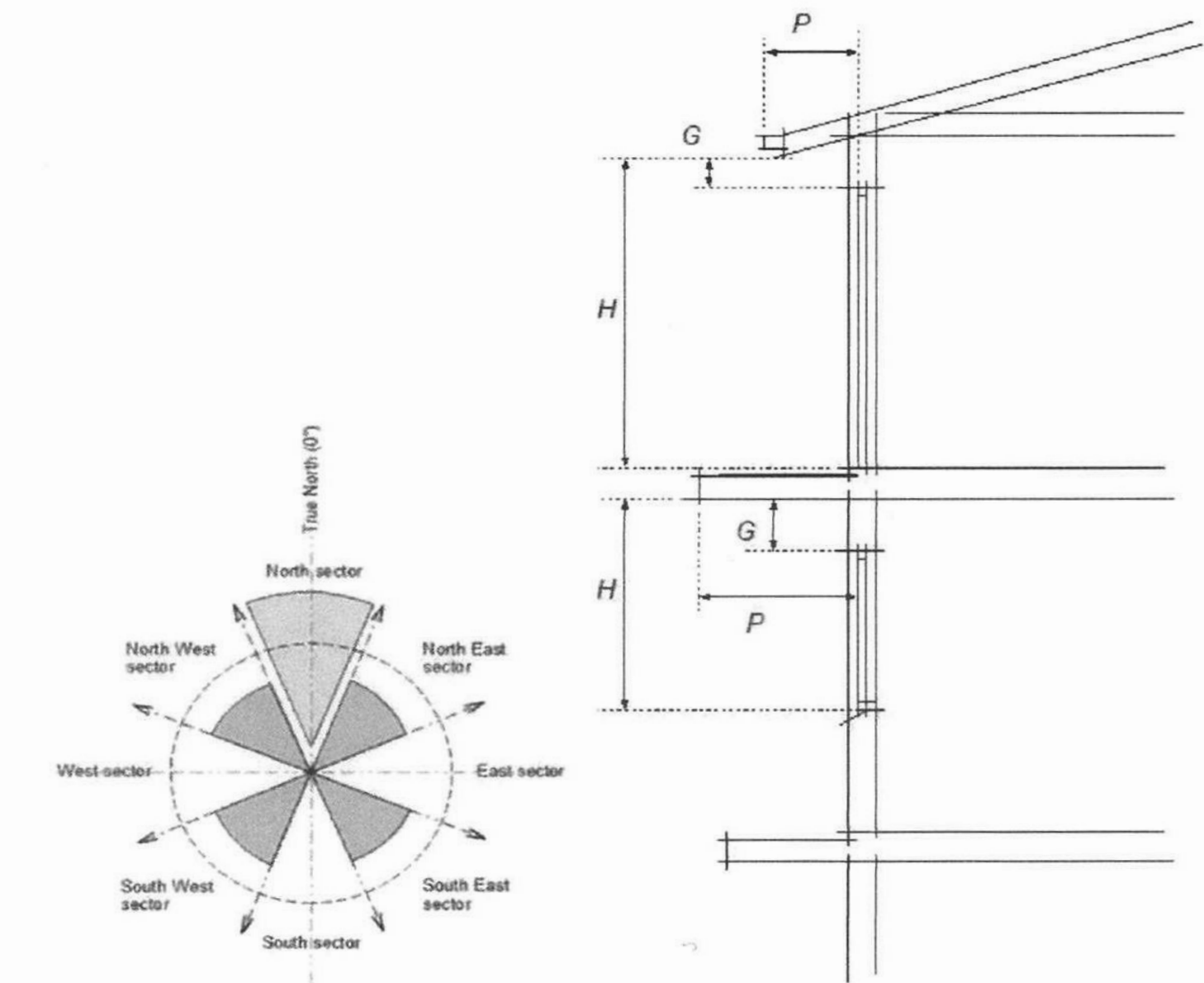
Constants
Conductance (C_g) constant: **1.4** Solar Heat Gain (C_{SHGC}) constant: **0.12**
Max. Conductance / Solar Heat Gain
Ground Storey
Net Floor Area of Storey / Room: m² **2743.00** Permissible
Fenestration Area of Storey / Room: m² **719.65** Max. Conductance (C_g) for Storey / Room: **3840.20**
% Fenestration Area to Net Floor Area: % **26.24** Max. Solar Heat Gain (C_{SHGC}) for Storey / Room: **329.16**

GLAZING ELEMENTS : FACTOR & CO-EFFICIENT SUMMARY

| Glazing Elements | | | | | | Glazing Element | | Sector | Shading | | | | Solar Exposure Factor (E) | | Energy Constants | | | Multipliers | |
|------------------|----------------|--------------|---------------|------------------------|---------|-----------------|-------------|----------------|------------|------------|-------|-------|---------------------------|----------------|------------------|-----------------|------------------------|------------------------|--|
| Storey Level | Identifier No. | No. of Units | Size w x h | Area (m ²) | U-value | SHGC | Orientation | Projection (P) | Height (H) | Height (G) | PH | | | C _g | C _{sh} | C _{sc} | Heating S _g | Cooling S _c | |
| Ground Storey | T14 | 4 | 1.5 x 2.032 | 12.19 | 5.73 | 0.66 | South | 0.850 | 2.805 | 0.850 | 0.152 | 0.510 | | | | | 0.995 | 0.990 | |
| Ground Storey | D12 | 1 | 0.9 x 2.4 | 2.16 | 5.73 | 0.66 | North | 0.850 | 2.805 | 0.850 | 0.152 | 0.570 | | | | | 1.000 | 0.985 | |
| Ground Storey | W01 | 4 | 1.5 x 1.14 | 6.84 | 5.73 | 0.66 | East | 0.850 | 2.805 | 0.850 | 0.152 | 0.950 | | | | | 0.995 | 0.990 | |
| Ground Storey | W02 | 1 | 3.215 x 0.836 | 2.69 | 5.73 | 0.66 | North | 0.850 | 2.805 | 0.850 | 0.152 | 0.570 | | | | | 1.000 | 0.985 | |
| Ground Storey | W03 | 2 | 0.76 x 2.4 | 3.65 | 5.73 | 0.66 | North | 0.850 | 2.805 | 0.850 | 0.152 | 0.570 | | | | | 1.000 | 0.985 | |
| Ground Storey | W04 | 10 | 0.6 x 0.603 | 4.82 | 5.73 | 0.66 | North | 0.850 | 2.805 | 0.850 | 0.152 | 0.570 | | | | | 1.000 | 0.985 | |
| Ground Storey | W05 | 2 | 3.45 x 1.184 | 8.17 | 5.73 | 0.66 | North | 0.850 | 2.805 | 0.850 | 0.152 | 0.570 | | | | | 1.000 | 0.985 | |
| Ground Storey | W06 | 6 | 4.68 x 1.184 | 33.25 | 5.73 | 0.66 | North | 0.850 | 2.805 | 0.850 | 0.152 | 0.570 | | | | | 1.000 | 0.985 | |
| Ground Storey | W07 | 6 | 4.68 x 1.627 | 45.69 | 5.73 | 0.66 | South | 0.850 | 2.805 | 0.850 | 0.152 | 0.510 | | | | | 0.995 | 0.990 | |
| Ground Storey | SF01 | 1 | 5 x 6.154 | 30.77 | 3.40 | 0.66 | East | 0.850 | 6.252 | 0.000 | 0.136 | 1.010 | | | | | 0.960 | 0.935 | |
| Ground Storey | SF02 | 1 | 4.289 x 2.8 | 11.15 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF03 | 1 | 5.575 x 2.8 | 15.61 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF04 | 1 | 5.575 x 2.8 | 15.61 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF06 | 2 | 6.595 x 2.8 | 36.93 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF08 | 1 | 4.7 x 2.8 | 13.16 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF09 | 1 | 4.69 x 3.655 | 17.14 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF10 | 8 | 4.69 x 3.655 | 137.14 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF11 | 1 | 5.7 x 3.837 | 21.87 | 3.40 | 0.54 | West | 0.850 | 6.252 | 0.850 | 0.068 | 1.190 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF12 | 1 | 4.7 x 1.516 | 7.13 | 3.40 | 0.54 | West | 0.850 | 6.252 | 0.850 | 0.068 | 1.190 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF13 | 5 | 4.7 x 0.722 | 16.97 | 3.40 | 0.54 | West | 0.850 | 6.252 | 0.850 | 0.068 | 1.190 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF16 | 8 | 4.68 x 2.8 | 104.83 | 3.40 | 0.54 | South | 0.850 | 6.252 | 0.850 | 0.068 | 0.570 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF17 | 1 | 4.354 x 2.8 | 12.19 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF18 | 1 | 2.6 x 2.805 | 7.29 | 3.40 | 0.54 | East | 0.850 | 6.252 | 0.850 | 0.068 | 1.070 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF19 | 1 | 3.885 x 2.805 | 19.31 | 3.40 | 0.54 | East | 0.850 | 6.252 | 0.850 | 0.068 | 1.070 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF20 | 1 | 1.25 x 2.805 | 3.51 | 3.40 | 0.54 | East | 0.850 | 6.252 | 0.850 | 0.068 | 1.070 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF21 | 1 | 4.715 x 2.805 | 13.23 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF22 | 3 | 3.176 x 2.8 | 28.68 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF23 | 3 | 3.03 x 2.8 | 25.45 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF24 | 3 | 6.836 x 2.8 | 57.42 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |
| Ground Storey | SF25 | 1 | 2.43 x 2.8 | 6.80 | 3.40 | 0.54 | North | 0.850 | 6.252 | 0.850 | 0.068 | 0.690 | | | | | 1.000 | 1.000 | |

Roof Assembly

SANS 10400-XA Required R-value
Minimum Total R-value required: **3.20** m²/KW Direction of heat flow: **Up**
Construction Type R-value
Basic roof assembly: **Metal sheeting type**
R-value for roof covering material: **0.30** m²/KW
R-value for ceiling: **0.05** m²/KW
Required added R-value for insulation: **2.85** m²/KW
SANS 204 Required R-value
Construction Type R-value
Roof venting: **Unventilated**
Basic roof construction? **Metal cladding @ 22-45° pitch w/ horiz. ceiling**
Basic R-value for Roof
Direction of heat flow: **UP** **DOWN**
Outdoor air film (7m/s) **0.03**
Metal cladding **0.00**
Roof air space (non-reflective) **0.18**
Plasterboard, gypsum (10 mm, 880 kg/m³) **0.06**
Indoor air film (still air) **0.11**
Total R-value **0.38** m²/KW
Thermal Insulation
Minimum added R-Value of insulation required: **2.82** m²/KW
Generic insulation product added? **Cellulose fibre loose-fill**
Density of generic insulation added: **27.5** kg/m³
Thickness of generic insulation required: **115** mm



Worst-case whole glazing element performance figures.

| Glass Description | 1 | 2 | 3 | 4 | 5 |
|---------------------------|---------------------------|------|------------------------------------|------|---|
| | Performance Values | | | | |
| | Aluminium / Steel Framing | | Timber / uPVC / *Aluminium Framing | | |
| | Total U-value | SHGC | Total U-value | SHGC | |
| Single – clear | 7.9 | 0.81 | 5.6 | 0.77 | |
| Single – tinted | 7.9 | 0.69 | 5.6 | 0.65 | |
| Single Low E | 5.73 | 0.66 | 4.06 | 0.63 | |
| Clear Double (3/6/3) | 4.23 | 0.72 | 3 | 0.68 | |
| Tinted Double | 4.23 | 0.59 | 3 | 0.56 | |
| Clear Double Low E | 3.4 | 0.66 | 2.41 | 0.62 | |
| Tinted Double Low E | 3.4 | 0.54 | 2.41 | 0.51 | |
| (*) Thermal Break Framing | | | | | |

GENERAL NOTES:
ALL WORK TO BE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS SANS 10400-2011. ALL LEVELS AND DIMENSIONS TO BE CHECKED AND VERIFIED ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.
GLAZING NOTES:
ALL GLAZING TO COMPLY WITH PART N OF SANS 10400-2011.
STAR BALUSTRADE NOTES:
BALUSTRADES, HANDRAILS, HEIGHTS AND OPENINGS TO COMPLY WITH PARTS M & N OF SANS 10400-2011.
MAX 20mm RISER MIN 200mm TREAD
BALUSTRADES 1.0m HIGH WITH NO GAP MORE THAN 100mm
IF THE STAIRCASE FORMS PART OF AN ESCAPE ROUTE IT IS TO COMPLY WITH PART M OF SANS 10400-2011.
DEMOLITION WORK:
ALL DEMOLITION WORK TO BE CARRIED OUT IN ACCORDANCE WITH SANS 10400-2011 PART F. NO DEMOLITION WORK IS TO BE CARRIED OUT WITH RELEVANT MUNICIPAL AND/OR CLIENT APPROVAL.
PLUMBING & DRAINAGE:
ALL PLUMBING TO COMPLY WITH PART P OF THE SANS 10400-2010.
ALL WASTE PIPES AND DRAINS TO BE ACCESSIBLE ALONG THEIR ENTIRE LENGTH. PROVIDE INSPECTION EYES AT ALL DRAIN BENDS AND JUNCTIONS OF WASTE PIPES. WASTE TO BE FITTED WITH 60mm RESEAL TRAPS.
WATER CONNECTIONS TO FITTINGS: - 15mm DIA TO WRL, WC AND SHOWERS 20mm DIA TO GEYSERS 25mm DIA TO FHR
ALL VENT PIPES TO DISCHARGE TO EXTERNAL AIR 50MM Ø WASTE PIPES REQUIRE A 75MM Ø SLEEVE 110MM Ø WASTE PIPES REQUIRE A 150MM Ø SLEEVE
ALL NEW SEWER LINES TO RUN IN THE CEILING VOID OF THE FLOOR BELOW.
FOR PLUMBING AND DRAINAGE LAYOUT PLANS AND CROSS SECTIONS REFER TO REGISTERED WET SERVICES ENGINEERS' DRAWINGS FOR NATIONAL DESIGN DRAWINGS
ALL STORMWATER TO BE COLLECTED AND DRAINED TO COMPLY WITH PART P OF THE SANS 10400-2010 AND DRAIN TO MUNICIPAL STORM WATER DRAINAGE SYSTEM TO ENGINEERS' DETAILS
STRUCTURAL:
ALL REINFORCED CONCRETE WORK AND RETAINING WALLS TO BE STRICTLY IN ACCORDANCE WITH REGISTERED STRUCTURAL ENGINEERS' DETAILS AND SPECIFICATIONS.
MECHANICAL VENTILATION & LIGHTING:
ALL LIGHTING AND VENTILATION (FRESH AIR AND EXTRACT) TO COMPLY WITH PART Q (SANS 10400-2011) IN ACCORDANCE WITH REGISTERED MECHANICAL ENGINEERS' DRAWINGS AND REGISTERED ELECTRICAL ENGINEERS' DRAWINGS ALL ARTIFICIAL LIGHTING TO COMPLY.
SANS 10400XA WALLS:
NON-MASONRY WALL WILL HAVE 'R' VALUES AS PROVIDED. (SANS 10400 - XA-4.4.3.1)
DOUBLE SKIN MASONRY WITH PLASTER INSIDE OR RENDER OUTSIDE COMPLES SINGLE LEAF. MIN. 140MM WITH PLASTER INSIDE AND RENDER OUTSIDE COMPLES. (SANS 10400-XA-4.4.3.2)
OTHER MASONRY WALLS WILL HAVE 'R' VALUE OF 0.35. (SANS 10400 - XA-4.4.3.3)
FENESTRATION:
AIR LEAKAGE SHALL NOT EXCEED 2L/m²/H FENESTRATION AREA, 0.306 L/m²/H FIXED GLAZING AND 1 L/m²/H REVOLVING SWING DOORS. (SANS 10400 - XA-4.4.1.1)
FENESTRATION MORE THAN 15% TO NETT FLOOR AREA PER STOREY THEN (SANS 10400-XA-4.4.2)
FENESTRATION UP TO 15% AREA TO NETT FLOOR AREA PER STOREY COMPLES (SANS 10400-XA-4.4.1)
SOLAR HEAT GAIN AND HEAT CONDUCTANCE TO COMPLY WITH SANS 204-4.3.4.

ENGINEERS' NOTES:
* All beams to Engineers spec.
* All foundations & concrete slabs to Engineers spec.
* All excavations to Engineers spec.
* All water run-off above & below ground to engineers spec.
* No foundations to encroach or breach Building / Servitude lines.

FOR INFORMATION ONLY

Owner/Client:

Owner/Client Signature:

Eng. Signature:

Arch. Signature:

Arch. Council no. :

CLIENT / SPONSOR



CONSULTANT



ARCHITECT



Project Title:
EKURHULENI EAST TVET COLLEGE - WELLNESS CENTRE

date : 16/07/2021 12:46:28

drawn : Author scales : As indicated

Drawing Description:
XA CALCULATIONS

ISSUED FOR TENDER: ☐ ISSUED FOR CONSTRUCTION: ☐ DATE ISSUE: ☐

Job No. 2019_59 Drawing No. DD 108 Rev. No. A

FOR INFORMATION ONLY