



## INFRASTRUCTURE DEPARTMENT

### INVITATION TO QUOTE

An invitation is hereby issued to suitably qualified and experienced service providers to provide services as described on the table below:

Quote number	Quote description	Price and BBBEE	Closing date	Mandatory requirements
RFQ MUT 877/2024	Appointment of a Suitably Qualified & Experienced Service Provider in Fit-out Construction for the New Finance Offices, in the Student Centre Building at Mangosuthu University of Technology Main Campus	80/20	22 November 2024 @12H00	<ul style="list-style-type: none"><li>Valid Tax certificate or pin.</li><li>CIPC Certificate</li><li>Valid COIDA Registration</li><li>CIDB Grading 2GB or higher</li></ul>

Mangosuthu University of Technology is committed to the implementation of its Procurement Policy on Broad-based Black Economic Empowerment (BBBEE). For enquires please contact Nomonde Mhlungu, email [mhlungunb@mut.ac.za](mailto:mhlungunb@mut.ac.za), tel. on 031 907 7500.

Quotation documents are to be downloaded via MUT website and must be sent to the above email address [mhlungunb@mut.ac.za](mailto:mhlungunb@mut.ac.za) from Procurement, Umlazi Campus. No facsimile, late or bids will be accepted. The University does not bind itself to accept the lowest bid and reserves the right to accept the whole or part of any quotation. If you are not contacted within 90working days after the closing date of the quotation, consider your quotation unsuccessful.

## OFFICIAL REQUEST FOR QUOTATION (RFQ)

**INSTRUCTIONS:** The supplier information must be completed in full, and this document must be signed by authorized personnel. The supplier must carefully read the instructions and the terms and conditions of this document. Failure to adhere to these instructions and terms and conditions may result in rejection of the submission.

<b>Business Unit: Infrastructure Department</b>	<b>RFQ number: RFQ MUT 877/2024</b>
<b>RFQ Description:</b>	Appointment of a Suitably Qualified & Experienced Service Provider in Fit-out Construction for the New Finance Offices, in the Student Centre Building at Mangosuthu University of Technology Main Campus.
<b>Requester: Mr. Lubabalo Ngcaweni</b> <b>Technical Enquires: 031 907 7341 or</b> <b>Email: <a href="mailto:Ngcaweni.lubabalo@mut.ac.za">Ngcaweni.lubabalo@mut.ac.za</a></b>	<b>Buyer: Ms. Mhlungu Nomonde</b>
<b>Request date: 13 November 2024</b>	<b>Contact no: (031) 907 7500</b> <b>E-mail: <a href="mailto:mhlungunb@mut.ac.za">mhlungunb@mut.ac.za</a></b>
<b>Compulsory Briefing/Information session</b>	None
<b>Closing date and Time: 22 November 2024 @ 12h00</b>	<b>Delivery Address:</b> <b>Send via e-mail: <a href="mailto:mhlungunb@mut.ac.za">mhlungunb@mut.ac.za</a></b>
<b>Payment term</b>	30 days in arrears upon receipt of a valid invoice
<b>NB:</b> RFQ documents should be emailed to the delivery address above. Clarification questions to be directed to the buyer on the above email address.	

## BIDDER/SUPPLIER INFORMATION

Company name:	
Address:	
Contact Number:	
Name & Surname of Authorized person:	
Email:	
Company Registration number	

### RFQ FORM

1. I/We hereby render to supply all or any of the supplies and/or to render all or any of the services described in the attached documents to Mangosuthu University of Technology on the items and conditions and in accordance with the specifications stipulated in the RFQ documents (and which shall be taken as part of, and incorporated into, this RFQ) at the prices and on the terms regarding time for delivery and/or execution inserted therein.
2. I/We agree that the offer herein shall remain binding upon me/us and open for acceptance by Mangosuthu University of Technology during the validity period indicated and calculated from the closing time of the RFQ.
3. if I/we withdraw my/our RFQ within the period for which I/we have agreed that the RFQ should remain open for acceptance or fail to fulfil the contract when called upon to do so, Mangosuthu University of Technology may without prejudice to its other rights, agree to the withdrawal of my/or RFQ or cancel the contract that may have been entered into between me/us and Mangosuthu University of Technology and I/we will then pay to Mangosuthu University of Technology any additional expense incurred by Mangosuthu University of Technology having either to accept any less favourable RFQ or fresh RFQs have to be invited, the additional expenditure incurred by the invitation of fresh RFQ and by the subsequent acceptance of any less favourable RFQ, Mangosuthu University of Technology shall also have the right to recover such additional expenditure by set-off against moneys which may be due or become to me/us under this or any other RFQ or contract or against any guarantee or deposit that have been furnished by me/us or on my/our behalf for the due fulfilment of this or any other RFQ or contract and pending the ascertainment of the amount of such additional expenditure to retain such moneys, guarantee or deposit as security for any loss Mangosuthu University of Technology may sustain by reason of my/our default.
4. If my/our RFQ is accepted the acceptance may be communicated to me/us by letter or ordinary post or registered post and that SA Post Office Ltd shall be regarded as my/our agent. Delivery of such acceptance to SA Post Office Ltd shall be treated as delivery to me/us.

5. The law of the Republic of South Africa shall govern the contract created by the acceptance of my/our RFQ and that I/we choose domicilium citandi et executandi in the Republic (full address).
6. I/We furthermore confirm that I/we have satisfied myself/ourselves as to the correctness and validity of my/our RFQ, that the price(s) and rate(s) quoted cover all the work/items(s) in these documents; and that the price(s) and rate(s) cover all my/our obligations under a resulting contract. I/we accept that any mistakes regarding price(s) and calculations will be at my/our risk.
7. I/we hereby accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me/us under this agreement as the principal(s) liable for the due fulfilment of this contract.
8. I/We agree that any action from this contract in all respects be instituted against me/us and I/we hereby undertake to satisfy fully any sentence or judgment which may be pronounced against me/us as a result of such action.
9. I/We declare that I/we have participation /no participation in the submission of any other offer for the supplies/service described in the attached documents. If in the affirmative, state name(s) or RFQ(s) involved.

10. -----  
 -----  
 -----

Are you duly authorized to sign for this the RFQ? \*YES / NO

11. Has the Declaration of Interest been duly completed and included with the other RFQ forms?  
 \*YES / NO

**DECLARATION**

I, ..... the undersigned (full names)

Certify that the information furnished above is correct. I accept that, in addition to cancellation contract, action may be taken against me should this declaration prove to be false.

Name & Surname of Authorised person/ Representative _____	Date:
Signature of a Bidder's Representative _____	

**PRICING SCHEDULE – FIRM PRICES (PURCHASES)**

**NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED**

**IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT**

Name of bidder.....	RFQ number: RFQ MUT 877/2024
Closing Time: 12h00	Closing date: 22 November

OFFER TO BE VALID FOR **90** DAYS FROM THE CLOSING DATE OF BID.

**1. Pricing Schedule**

Refer to **Section 5** for Pricing Schedule (To Be Completed by the bidder)  
The offered total of the prices inclusive of VAT is:

**(In Words)**

.....

.....

**(In Figures) R**.....

**2. Background**

A division of the Finance Department at Mangosuthu University of Technology, mainly responsible for student registration and related affairs, is in need of new updated offices that will be suitable to facilitate the crucial work that is undertaken by this MUT division. The new offices will be situated in the recently constructed Student Centre Building, in a space that is currently a 'white box', needing modifications and fitting out by an experienced service provider to tailor it to required specific needs.

**3. Scope of Service**

The project involves construction work such as modifying the space by installing aluminum shopfronts, painting, setting up partitions and installing electrical and mechanical systems. The contractor must carry out the work according to the items listed in the Bill of Quantities, drawings, and specifications, and comply with all relevant rules and regulations.

**Pricing Schedule:**

**See Attached Annexure A: Bill of Quantities Including Final Summary page.**

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT IN RSA CURRENCY (RANDS)
1	Total including VAT as per BOQ page 53. <b>(Carried to form of offer)</b>	Item	1		
	<b>ADD: 15% CONTINGENCY</b> <b>(Client's budget to be used upon approval)</b>				
	<b>TOTAL (Inclusive)</b>				

- Required by: Mr. Lubabalo Ngcaweni
- At: Mangosuthu University of Technology
- Brand and model: .....
- Country of origin: .....
- Does the offer comply with the specification(s)? \*YES/NO
- If not to specification, indicate deviation(s) .....
- Period required for delivery: .....  
\*Delivery: Firm/not firm
- Delivery basis: .....

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

\*\* "all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

## DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state<sup>1</sup>, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid, or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-

- the bidder is employed by the state; and/or
- the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

2. **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

2.1 Full Name of bidder or his or her representative:.....

2.2 Identity Number: .....

2.3 Position occupied in the Company (director, trustee, shareholder<sup>2</sup>): .....

2.4 Company Registration Number: .....

2.5 Tax Reference Number: .....

2.6 VAT Registration Number: .....

2.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / persal numbers must be indicated in paragraph 3 below.

<sup>1</sup>“State” means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

<sup>2</sup>“Shareholder” means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

2.7 Are you or any person connected with the bidder **YES / NO**  
presently employed by the state?

2.7.1 If so, furnish the following particulars:

Name of person / director / trustee / shareholder/ member:

.....

Name of state institution at which you or the person connected to the bidder is employed :

.....

Position occupied in the state institution:

.....

Any other particulars:

.....

.....

2.7.2 If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector? **YES / NO**

2.7.2.1 If yes, did you attach proof of such authority to the bid document? **YES / NO**

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.

2.7.2.2 If no, furnish reasons for non-submission of such proof:

.....

.....

.....

2.8 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months? **YES / NO**

2.8.1 If so, furnish particulars:

.....

.....

2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

2.9.1 If so, furnish particulars.

.....

.....

2.10 Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

2.10.1 If so, furnish particulars.

.....

.....



2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract?

**YES / NO**

2.11.1 If so, furnish particulars:

.....  
 .....  
 .....

**3 Full details of directors / trustees / members / shareholders.**

Full Name	Identity Number	Personal Tax Reference Number	State Number	Employee Peral Number

**4 DECLARATION**

I, THE UNDERSIGNED (NAME).....

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT MANGOSUTHU UNIVERSITY OF TECHNOLOGY MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 23 OF THE GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....  
**Signature**

.....  
**Date**

.....  
**Position**

.....  
**Name**

## DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Standard Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be disregarded if that bidder, or any of its directors have-
  - a. abused the institution's supply chain management system;
  - b. committed fraud or any other improper conduct in relation to such system; or
  - c. failed to perform on any previous contract.
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

Item	Question	Yes	No
4.1	<p>Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?</p> <p>(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).</p> <p><b>The Database of Restricted Suppliers now resides on the National Treasury's website(<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) and can be accessed by clicking on its link at the bottom of the home page.</b></p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	<p>Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?</p> <p><b>The Register for Tender Defaulters can be accessed on the National Treasury's website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) by clicking on its link at the bottom of the home page.</b></p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		
4.3	<p>Was the bidder or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

4.3.1	If so, furnish particulars:		
4.4	Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		

**CERTIFICATION**

I, THE UNDERSIGNED (FULL NAME) .....  
**CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE AND CORRECT.**

**I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.**

.....  
**Signature**

.....  
**Date**

.....  
**Position**

.....  
**Name of Bidder**

## CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This document must form part of all bids<sup>1</sup> invited.
  
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).<sup>2</sup> Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
  
- 3 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
  - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
  - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
  
- 4 This form serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
  
- 5 In order to give effect to the above, the attached Certificate of Bid Determination must be completed and submitted with the bid:

<sup>1</sup> Includes price quotations, advertised competitive bids, limited bids, and proposals.

<sup>2</sup> Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

## CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

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(Bid Number and Description)

in response to the invitation for the bid made by:

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(Name of Institution)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: \_\_\_\_\_ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate.
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
  - (a) has been requested to submit a bid in response to this bid invitation;
  - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
  - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium<sup>3</sup> will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - (a) prices;

- (b) geographical area where product or service will be rendered (market allocation)
  - (c) methods, factors or formulas used to calculate prices;
  - (d) the intention or decision to submit or not to submit, a bid;
  - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
  - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

**<sup>3</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.**

10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....  
Signature

.....  
Date

## **CONDITIONS OF RFQ**

1. Bidders must submit all necessary documents and complete all forms and questionnaires contained in the RFQ. Each bidder's proposal shall be evaluated against timelines and price.
2. pricing- do not show separately.
3. Bidders responding to this quotation are deemed to do so, on the basis that they acknowledge and accept all Terms and Conditions of this quotation.
4. RFQ validity period 90 days.
5. Validity period may not be extended unless otherwise stated by the member.
6. Incomplete or late submissions will not be evaluated.
7. Return quotations to the email address provided before closing date and time.

## **WHAT IS THE MUT LOOKING FOR**

Mangosuthu University of Technology is looking to appoint a suitably qualified & experienced service provider in Fit-Out Construction for the New Finance Offices, in the Student Center building at Mangosuthu University of Technology main campus.

See attached Pricing Schedule

**Evaluation Criteria**

<b>Compulsory documents to be submitted with RFQ.</b>	<b>Mandatory Documents</b>
<ul style="list-style-type: none"> <li>• Valid Tax certificate or pin.</li> <li>• CIPC Certificate</li> <li>• Valid COIDA Registration</li> <li>• CIDB Grading 2GB or higher</li> </ul>	<b>YES</b>
<b>NB: Failure to submit mandatory documents will lead to disqualification</b>	
<b>FUNCTIONALITY</b>	<b>100</b>
<p><b>Client’s Reference /Recommendation Letters (Provide Three (3) Signed letters with contactable contacts of a project with Similar Scope and Nature:</b></p> <ul style="list-style-type: none"> <li>• 3 Reference Letters = 30 Points</li> <li>• 2 Reference Letters = 20 Points</li> <li>• 1 Reference Letters = 05 Points</li> </ul> <p><b>If no references are provided the bidder will be Scored Zero</b></p>	<b>30</b>
<b>Proposed Personnel and Key Staff to also include the following Professions: Construction Manager &amp; Health &amp; Safety Officer</b>	
<p><b>Professional Construction Manager Experience (SACPCMP Professional Registration) of Project Similar in Scope and nature</b></p>	<b>10</b>
<ul style="list-style-type: none"> <li>• 4-6 years’ Experience – Attach CV = 10 Points</li> <li>• 1-3 years’ Experience – Attach CV = 05 Points</li> <li>• <b>If no CV and Certified Certificates are provided the bidder will be scored Zero.</b></li> </ul>	



<b>Professional Health and Safety Experience (SACPCMP Professional Registration) of Project Similar in Scope and Nature.</b>	
<ul style="list-style-type: none"> <li>• 4-6 years' Experience – Attach CV = 05 Points</li> <li>• 1-3 years' Experience – Attach CV = 03 Points</li> <li>• <b>If no CV is provided the bidder will be scored Zero.</b></li> </ul>	<b>5</b>
<b>Method Statement / Approach Methodology</b> <ul style="list-style-type: none"> <li>• Detailed Methodology = 20 Points</li> <li>• Moderate Methodology = 10 Points</li> <li>• Poor Methodology Provided = 05 Points</li> </ul> <p><b>Note: If no methodology is attached the bidder will be scored 0 points</b></p>	<b>20</b>
<b>Preliminary Program (Timelines)</b> <ul style="list-style-type: none"> <li>• Detailed Program = 20 Points</li> <li>• Moderate Program = 10 Points</li> <li>• Poor Program = 05 Points</li> </ul> <p><b>Note: If no Program is attached the bidder will receive 0 points scored</b></p>	<b>20</b>
<b>Location</b> <ul style="list-style-type: none"> <li>• Umlazi = 15 points</li> <li>• KZN = 10 Points</li> <li>• Outside KZN = 00 Points</li> </ul>	<b>15</b>

**NB:** The evaluation criterion for functionality aims to assess the capability of the tenderer to execute and maintain a tender and/ or contract. Tenderers need to obtain a minimum percentage score **70%** and above to progress to the next stage of evaluation.

**OTHER GENERAL REQUIREMENTS:**

- CSD MAAA NUMBER----- (please insert in the space provided)
- BBEE Certification – No points will be allocated if not provided.

**TO BE COMPLETED BY SUPPLIER BY (Checklist)**

• Does this Offer comply with specification, state brand where applicable?	
• Does the bidder have the required experience, state period?	
• Can this order be delivered within specified period, state delivery period?	
• Do you intend sub-contraction/Partner?	
• Pricing Schedule (Recalculate to ensure accuracy)- Indicate whether prices are firm or non-firm)	
• Declaration of Interest (Read, Understand and Sign)	
• Declaration of Bidder’s Past Supply Chain Management Practices (Read, Understand and Sign)	
• Certificate of Independent Bid Determination (Read, understand and Sign)	
• CSD Registration Number (MAAA.....) / CSD report	

***PLEASE NOTE: MUT reserves the right to appoint or not appoint a service provider for this project. MUT will not necessarily accept the lowest quotation in part or full, it will be MUT’s discretion to appoint the most suitable service provider who will add value to MUT.***

# ***ANNEXURE A***

## ***BOQ (BILL OF QUANTITIES) / PRICING SCHEDULE***

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 1</u></b></p>			
<p><b><u>BILL NO. 1</u></b></p>			
<p><b><u>PRELIMINARIES</u></b></p>			
<p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p>			
<p>The <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p>			
<p>The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b></p>			
<p>The <b>JBCC</b> General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these <b>bills of quantities</b>, amended as hereinafter described</p>			
<p>The <b>contractor</b> is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause</p>			
<p>The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only</p>			
<p>Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"</p>			
<p>Where standard clauses or alternatives are not entirely applicable to this <b>agreement</b> such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above mentioned documents</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 1 Bill No. 1 Preliminaries</p>			
			R

Brought Forward

R

**PREAMBLES FOR TRADES**

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained

Supplementary preambles and/or specifications are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles

The **contractor's** prices for all items throughout these **bills of quantities** shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications

**STRUCTURE OF THIS PRELIMINARIES BILL**

Section A :A recital of the headings of the individual clauses in the aforementioned **JBCC** Principal Building Agreement

Section B :A recital of the headings of the individual clauses in the aforementioned **JBCC** General Preliminaries

Section C :Any special clauses to meet the particular circumstances of the project

**PRICING OF PRELIMINARIES**

Should the **contractor** select Option A in the **contract data** for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

**SECTION A: PRINCIPAL BUILDING AGREEMENT**

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R

**Interpretation (A1-A7)**

- 1 Clause 1.0 - Definitions and interpretation  
  
Pricing of bills of quantities
  
- 2 The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities  
  
Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained
  
- 3 Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary
  
- 4 Abbreviated descriptions  
  
The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the Principal Agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice

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Legal status of contractor

If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:

1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement
2. These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons
3. The contractor shall not alter its composition or legal status without the prior written consent of the employer

F:..... V:..... T:.....

Item

5 Clause 2.0 - Law, regulations and notices

F:..... V:..... T:.....

Item

6 Clause 3.0 - Offer and acceptance

F:..... V:..... T:.....

Item

7 Clause 4.0 - Cession and assignment

F:..... V:..... T:.....

Item

8 Clause 5.0 - Documents

F:..... V:..... T:.....

Item

9 Clause 6.0 - Employer's agents

F:..... V:..... T:.....

Item

10 Clause 7.0 - Design responsibility

F:..... V:..... T:.....

Item

**Insurances and securities (A8-A11)**

11 Clause 8.0 - Works risk

F:..... V:..... T:.....

Item

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12 Clause 9.0 - Indemnities  
 F:..... V:.....T:.....

Item

13 Clause 10.0 - Insurances  
 F:..... V:.....T:.....

Item

14 Clause 11.0 - Securities

Guarantee for payment

The Employer shall not provide to the contractor with a guarantee for payment

By virtue of the contractor submitting a tender offer, he is deemed to have waived his lien or right of continuing possession of the works [11.10]

Sub-clause 11.10 has been amended to read as follows:

"The contractor shall waive his lien or right of continuing possession of the works."

Clause 11.0 has been amended to include the following new sub-clauses:

Sub-clause 11.11

The guarantee provided by the contractor's Guarantor shall have an expiry date (if stated) no less than 3 months after the practical completion date and shall be extended accordingly should the practical completion date be extended. The cost for same shall be included on the contractor's tender price as no claims for additional cost shall be entertained

Sub-clause 11.12

The contractor is required to provide the Employer with a variable construction guarantee with twenty-one (21) calendar days of acceptance of the contractors' tender

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Sub-clause 11.13

Extension of waiver of lien

The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times

F:..... V:.....T:.....

Item

**Execution (A12 - A17)**

15 Clause 12.0 - Obligations of the parties

Sub-clause 12.2.6 has been amended to include the following:

The programme for the works must be prepared and issued in Microsoft Project Programming Software

The contractor shall include a float of 10 working days within the contract period for project delays such as, but not limited to adverse weather conditions, etc., in the programme. Such provisions shall initially be included at the end of the contract period or proportionally allocate at the end of each section for contracts with sectional completion, and shall be monitored by the contractor and agreed with the Principal Agent as and when such delays takes place and shall be recorded in the programme based on actual stoppages when incurred. Revision of the date for Practical Completion shall only be considered once the 10 working days has been fully utilised

Sub-clause 12.2.10 has been amended to include the following:

The contractor shall be required to maintain, in addition to the approved programme, a comprehensive fortnightly bar-chart programme expanded to reflect anticipated daily activities for the ensuing fourteen (14) days

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Sub-clause 12.2.18 has been amended to include the following:

Office accommodation

The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]

The contractor's site camp shall be equipped with Wi-Fi internet connection which shall be utilised by the contractor's staff, the client and members of professional team

Notice board

The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the Principal Agent listing the names and logos of the Employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18]

F:..... V:.....T:.....

Item

16 Clause 13.0 - Setting out

F:..... V:.....T:.....

Item

17 Clause 14.0 - Nominated subcontractors

F:..... V:.....T:.....

Item

18 Clause 15.0 - Selected subcontractors

F:..... V:.....T:.....

Item

19 Clause 16.0 - Direct contractors

1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials

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R

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<b>Brought Forward</b>		R
	<p>2. Allow the use of personnel welfare facilities, where provided</p> <p>3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation</p> <p>4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1]</p> <p>F:..... V:..... T:.....</p>	Item
20	<p>Clause 17.0 - Contract instructions</p> <p>F:..... V:..... T:.....</p> <p><b><u>Completion (A18 - A24)</u></b></p>	Item
21	<p>Clause 18.0 - Interim completion</p> <p>F:..... V:..... T:.....</p>	Item
22	<p>Clause 19.0 - Practical completion</p> <p>Practical Completion</p> <p>In respect of practical completion:</p> <p>1. The following certificates of compliance, as applicable shall be required (excluding others that may be required by the local/national authority, etc.) from the contractor to achieve practical completion</p> <p style="padding-left: 20px;">1.1 Certificates from the contractor that all aspects of the Construction Regulations of 2014 have been complied with</p> <p style="padding-left: 20px;">1.2 Certificates from the contractor that the National Building Regulations have been complied with</p> <p style="padding-left: 20px;">1.3 Certificates of compliance with respect to plumbing and drainage installations</p> <p style="padding-left: 20px;">1.4 Certificates of compliance with respect to electrical and electronic installations</p>	
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R

- 1.5 Certificates of compliance with respect to all glazing
  - 1.6 Certificates of compliance with respect to structural and civil engineering
  - 1.7 Certificates of compliance with respect to roof installation
  - 1.8 Any other compliance documentation deemed necessary as instructed by the Principal Agent
  - 1.9 Three complete sets of approved maintenance and operating manuals together with all workmanship and material warranties and guarantees (to be compiled and issued to the Principal Agent prior to achievement of practical completion for approval) and three complete copies of documents in electronic format
2. In order to achieve practical completion of the works and without deviating from the generality of the term practical completion, the contractor shall, as a minimum comply with the following basic criteria, as applicable. These criteria should not be regarded as comprehensive but as an expansion of the term practical completion
- 2.1 Electrical installation is to be completed and fully commissioned permanent power and lighting inclusive of all telephone and data installations
  - 2.2 Plumbing installation it to be complete, commissioned permanent water supply and drainage tested. Pipe work to be pressured tested
3. Health and Safety file

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Clause 19.0 has been amended to include the following new sub-clauses:

Sub-clause 19.2.3

The contractor shall within five (5) calendar days of receipt of the list for practical completion issue a program indicating dates for completion for all listed items

Sub-clause 19.2.4

In the event that such inspection does not result in the work being accepted as Practically complete then the costs of such inspection and subsequent inspections shall be for the account of the contractor, at a rate of Ten Thousand Rand (R10 000.00) per man hour or part thereof, calculated by multiplying the total of the number of Employer's agents and Employer's staff present at each abortive practical completion inspection meeting, i.e. Where practical completion is not achieved, by the time taken for such an inspection until practical completion is achieved. In this regard, the Employer reserves the right to recover such costs in addition to any other remedies it may have in accordance with Clause 27

F:..... V:.....T:.....

Item

23 Clause 20.0 - Completion in sections

24 F:..... V:.....T:.....

N/A

25 Clause 21.0 - Defects liability period and final completion

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26 Clause 21.0 has been amended to include the following new sub-clauses:  
  
Sub-clause 21.13  
  
In the event that the certificate of Final Completion is not issued due to the contractor's work not being sufficiently complete then the costs of such inspection and subsequent inspections shall be for the account of the contractor, at a rate of Ten Thousand Rand (R10 000.00) per man hour or part thereof, calculated by multiplying the total of the number of Employer's agents and Employer's staff present at each abortive final completion inspection meeting, i.e. Where final completion is not achieved in terms of 21.6, by the time taken for such an inspection until final completion is achieved. In this regard, the Employer reserves the right to recover such costs in accordance with Clause 27

27 Sub-clause 21.14  
  
Notwithstanding [21.2], where the contractor fails to rectify/attend to outstanding works or defects on the list for completion, list for final completion or latent defects that appear before the issue of certificate of final completion and where the contractor remains in default, the Employer may engage others to carry out said outstanding works or defects and recover expense and/or loss incurred [27]  
  
F:..... V:.....T:.....

Item

28 Clause 22.0 - Latent defects liability period  
  
F:..... V:.....T:.....

Item

29 Clause 23.0 - Revision of the date for practical completion  
  
Sub-clause 23.1 has been amended to include the following new sub-clause:  
  
Sub-clause 23.1.7  
  
Delayed possession of site [12.1.5]

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Sub-clause 23.2 has been amended to omit the following sub-clause:

Sub-clause 23.2.1 Delayed possession of the site [12.1.5]

Clause 23.0 has been amended to include the following new sub-clauses:

Sub-clause 23.9

Notwithstanding, sub-clause(s) 23.1 to 23.8 a revision to the practical completion date will only be considered for work on the critical path of the contractual programme or the revised contractual programme, as applicable

Any revised programme, in order to be considered as a contractual programme, must be approved by the Principal Agent in writing, prior to it becoming effective

F:..... V:.....T:.....

Item

30 Clause 24.0 - Penalty for late or non-completion

F:..... V:.....T:.....

Item

**Payment (A25 - A27)**

31 Clause 25.0 - Payment

32 Sub-clause 25.1 has been amended to include the following:

The contractor shall submit the following information on a monthly basis to the Principal Agent and Quantity Surveyor in order to assist with the processing of the payment certificate and the preparation of the empowerment report:

- A detailed breakdown of the work done. (The work breakdown must be referenced strictly in accordance with the Tender Document or the detailed Priced Bills of Quantities, as applicable.)
- A detailed breakdown of all variation order costs claimed (With specific reference to work done by the Principal Building Contractor) in the certificate concerned, together with copies of the relevant contract instructions
- A detailed breakdown of the work done by each

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R

sub-contractor. (The work breakdown must be referenced strictly in accordance with the Tender Document or the detailed Priced Bills of Quantities, as applicable.)

- A detailed breakdown of all variation order costs claimed in the certificate concerned for sub-contract work, together with copies of the relevant contract instructions
- A written declaration authenticated by the contracts manager confirming, that the payment claims for work done by sub-contractors has been audited and amended by the contractor's quantity surveyor, prior to it being forwarded to the Principal Agent and Quantity Surveyor for evaluation
- If applicable, a combined empowerment report which shall include reports on contractor and sub-contractor compliance, in accordance with the format required by the empowerment manager. In this regard, the combined, contractor and sub-contractor empowerment report must contain an affidavit certifying that all information contained the report as being true and correct and must be authenticated by the contractor and a commissioner of oaths. The combined reports must also state that the contractor has checked and verified that all information submitted by sub-contractors is true and correct
- Tax invoice: the contractor shall attach a tax invoice as prescribed in the Value Added Tax Legislation to each payment certificate when presenting the certificate to the employer for payment. Such tax invoices shall correctly reflect the prescribed information and the amounts shall match precisely the amounts included in the payment certificate. Should the contractor fail to comply with these requirements, the date of presentation of the certificate shall be deemed to be delayed at the contractor's default until such time as the requirements are met

Should anyone or any combination of the above requirements not be complied with, the Principal Agent reserves the right to exclude any amounts that may have been due for certification from the payment certificate concerned and/ or delay the issue of payment certificates and/ or, revise the contractual payment date, as applicable, until such time compliance is achieved

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33	<p>Sub-clause 25.4 has been amended to include the following:</p> <p>Where the Employer agrees to pay for materials on/off site, the contractor shall be required to provide the Principal Agent with the necessary forms for cession of ownership for such materials, with the necessary delivery notes and invoices (where applicable)</p> <p>Sub-clause 25.10 has been amended as follows:</p> <p>Replace the words “fourteen (14) calendar days” with “forty (40) calendar days”</p> <p>F:..... V:.....T:.....</p>	Item
34	<p>Clause 26.0 - Adjustment of the contract value and final account</p>	
35	<p>Sub-clause 26.1 has been amended to include the following:</p> <p>Contract Instructions</p> <p>Instructions given by the Employer's agents in relation to the contract works, shall, irrespective of the format or wording of such instructions, not indicate that the work involved represents an extra or variation and shall not be deemed to be acceptance of any prices or quotations contained in any correspondence</p> <p>It is recorded that only the quantity surveyor where appointed by the employer for quantity surveying services is empowered, to rule whether any instructions issued constitutes an extra or not and, to resolve cost aspects of any matter pertaining to this contract</p> <p>F:..... V:.....T:.....</p>	Item
36	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:.....T:.....</p>	Item
<b><u>Suspension and termination (A28 - A29)</u></b>		
37	<p>Clause 28.0 - Suspension by the contractor</p> <p>F:..... V:.....T:.....</p>	Item
38	<p>Clause 29.0 - Termination</p>	
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<b>Brought Forward</b>		R
	F:..... V:..... T:.....	Item
<b><u>Dispute resolution (A30)</u></b>		
39	Clause 30.0 - Dispute resolution	
	F:..... V:..... T:.....	Item
40	<b><u>Agreement</u></b>	
	The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties	
	F:..... V:..... T:.....	Item
41	<b><u>Contract data</u></b>	
	Tenderer's selections	
	Before submission of his Tender the contractor is to complete the Tenderer's selections in the contract data	
	F:..... V:..... T:.....	Item
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R

**SECTION B: GENERAL PRELIMINARIES**

**Definitions and interpretation (B1)**

42 Clause 1.1 - Definitions

F:..... V:.....T:.....

Item

43 Clause 1.2 - Interpretation

F:..... V:.....T:.....

Item

**Documents (B2)**

44 Clause 2.1 - Checking of documents

Sub-clause 2.1 refers – the following is to be added after the words “written directive”:

The items in these Bills of Quantities are to be read and priced in conjunction with, and the descriptions regarded as amplified by the General Preambles for Trades 2017 as recommended and published by the Association of South African Quantity Surveyors, 2017 edition, and no claim arising from brevity of description of items fully described in the said General Preambles for Trades 2017 and Supplementary documentation will be entertained. Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc

F:..... V:.....T:.....

Item

45 Clause 2.2 - Provisional bills of quantities

F:..... V:.....T:.....

Item

46 Clause 2.3 - Availability of construction information

F:..... V:.....T:.....

Item

47 Clause 2.4 - Ordering of materials and goods

F:..... V:.....T:.....

Item

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<b><u>Previous work and adjoining properties (B3)</u></b>		
48	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item
49	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item
50	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item
<b><u>The site (B4)</u></b>		
51	Clause 4.1 - Handover of site in stages F:..... V:..... T:.....	Item Item
52	Clause 4.2 - Enclosure of the works F:..... V:..... T:.....	Item
53	Clause 4.3 - Geotechnical and other investigations F:..... V:..... T:.....	Item
54	Clause 4.4 - Encroachments F:..... V:..... T:.....	Item
55	Clause 4.5 - Existing premises occupied F:..... V:..... T:.....	Item
56	Clause 4.6 - Services - known  The contractor shall consult the Principal Agent before disconnecting any services. The contractor shall take special care not to damage any existing services that could have been foreseen or what have been shown to him by the Principal Agent. Damage to this services shall be for the contractor's account  F:..... V:..... T:.....	Item
<b>Carried Forward</b>		R
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R

**Management of contract (B5)**

57 Clause 5.1 - Management of the works

F:..... V:..... T:.....

Item

58 Clause 5.2 - Progress meetings

F:..... V:..... T:.....

Item

59 Clause 5.3 - Technical meetings

F:..... V:..... T:.....

Item

60 Clause 5 has been amended to include the following new sub-clause:

Sub-clause 5.4 - Daily records

The contractor shall keep daily records of people and equipment employed as well as a site diary in respect of work performed on the site

At the end of each week the contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all sub-contractors on the works each day

At the end of each week the contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works

F:..... V:..... T:.....

Item

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R

**Samples, shop drawings and manufacturer's instructions (B6)**

61 Clause 6.1 - Samples of materials

All material samples and colour samples must be submitted to the Principal Agent for selections and approval of the colour, shape and finish including mechanical, electrical and plumbing equipment that will be visible. The samples shall be provided in A4 size unless otherwise agreed. General samples shall be provided for Principal Agent/Employer to choose from each type of finish

The Principal Agent/Employer may reject all or part of the submitted samples and request for additional selections if the first submission are not acceptable

All samples must be kept in a sample room to be provided by the contractor for reference

Sample Board:

The contractor shall provide a board(s) of approved samples and make available one set at the site (sample room) and one for the Employer

F:..... V:.....T:.....

Item

62 Clause 6.2 - Workmanship samples

Sub-clause 6.2 has been amended to include the following:

The contractor shall provide a mock-up of all finished surfaces prior to commencement of the relevant work. The contractor shall only be permitted to commence with the relevant scope of work, on approval of the mock-up by the Principal Agent or its designated representative

F:..... V:.....T:.....

Item

63 Clause 6.3 - Shop drawings

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64 Sub-clause 6.3 refers – the following is to be added after the words 'and/or approval'

Shop drawings shall be submitted to the principal agents for approval at least ten (10) working days weeks prior to the date on which such approval is required in order to comply with the programme

All submissions shall be prepared in accordance with the contract drawings and specifications and/or any Principal Agents instructions and any deviation shall be specifically highlighted in writing, with a detailed explanation of the reason for such deviation, together with any cost and/or time implications. Delays in approval of shop drawings due to non compliance with drawings, specifications and/or Principal Agent’s instruction shall not constitute grounds for any claims for delay, extension of time and the like

The contractor shall be responsible for ensuring that all dimensions affecting shop drawings conform to the dimensions of built work

Should the contractor, sub-contractor, supplier or manufacturer be of the opinion that corrections to shop drawings made by the Principal Agent, constitute a change to the scope of work, then he shall immediately advise the Principal Agent in writing of this, together with the cost and/or programme implications thereof, in order to obtain the Principal Agent's directive

65 Sub-clause 6.3.1 has been amended as follows:

Replace the words “two (2) copies” with “four (4) copies” under bullet point number 6

F:..... V:.....T:.....

Item

66 Clause 6.4 - Compliance with manufacturer's instructions

F:..... V:.....T:.....

Item

**Deposits and fees (B7)**

67 Clause 7.1 - Deposits and fees

F:..... V:.....T:.....

Item

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<b><u>Temporary services (B8)</u></b>		
68	Clause 8.1 - Water F:..... V:..... T:.....	Item
69	Clause 8.2 - Electricity F:..... V:..... T:.....	Item
70	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item
71	Clause 8.4 - Communication facilities F:..... V:..... T:.....	Item
<b><u>Prime cost amounts (B9)</u></b>		
72	Clause 9.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item
<b><u>Attendance on subcontractors (B10)</u></b>		
73	Clause 10.1 - General attendance F:..... V:..... T:.....	Item
74	Clause 10.2 - Special attendance  Sub-clause 10.2 has been amended to include the following:  The Tenderer shall examine all drawings and information pertaining to the works as a whole and shall provide all necessary special attendance resources required for the due and proper execution and completion of all sub-contract works  F:..... V:..... T:.....	Item
<b><u>General (B11)</u></b>		
75	Clause 11.1 - Protection of the works F:..... V:..... T:.....	Item
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76	<p>Clause 11.2 - Protection/isolation of existing works and works occupied in sections</p> <p>F:..... V:..... T:.....</p>	Item	
77	<p>Clause 11.3 - Security of the works</p> <p>F:..... V:..... T:.....</p>	Item	
78	<p>Clause 11.4 - Notice before covering work</p> <p>F:..... V:..... T:.....</p>	Item	
79	<p>Clause 11.5 - Disturbance</p> <p>F:..... V:..... T:.....</p>	Item	
80	<p>Clause 11.6 - Environmental disturbance</p> <p>F:..... V:..... T:.....</p>	Item	
81	<p>Clause 11.7 - Works cleaning and clearing</p> <p>Disposal of Waste Material, etc.</p> <p>The contractor shall provide appropriate equipment (such as chutes, if required), etc., for the rapid removal of waste material, etc., at points as agreed with the Principal Agent in writing. In addition, the contractor is to provide for adequate waste skips for the disposal of such material to be located in positions as advised by the Principal Agent in writing</p> <p>The contractor shall ensure that there is a maximum of a twenty four (24) hour turn-around time for the removal of all full waste skips from site. The contractor further acknowledges that the Employer reserves the right to appoint others to remove waste material and waste skips from site, should the contractor fail to meet the twenty four (24) hour turn-around time and that such costs shall be deducted from amounts due to the contractor</p> <p>F:..... V:..... T:.....</p>	Item	
82	<p>Clause 11.8 - Vermin</p> <p>F:..... V:..... T:.....</p>	Item	
<b>Carried Forward</b>			R
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R

83 Clause 11.9 - Overhand work  
F:..... V:.....T:.....

Item

84 Clause 11.10 - Tenant installations  
F:..... V:.....T:.....

Item

85 Clause 11.11 - Advertising  
F:..... V:.....T:.....

Item

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**SECTION C: SPECIFIC PRELIMINARIES**

86 **Health and Safety**

Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (annexed to these bills of quantities) and that the Employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]

The contractor shall:

1. Comply with the health and safety specification for the works
2. Prepare and agree with the health and safety consultant the health and safety plan for the works
3. Cooperate with the health and safety consultant in all respects
4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification
5. Conform to the conditions contained in the Employer's health and safety specification

F:..... V:.....T:.....

Item

87 **As Built Drawings**

The contractor shall accurately record the details of the electrical, mechanical, security, fire installation, water reticulation details, construction breaks, etc., on drawings and issue same to the Principal Agent and the relevant agent for record purposes

F:..... V:.....T:.....

Item

Carried Forward

R

Section No. 1  
Bill No. 1  
Preliminaries

<b>Brought Forward</b>		R
88	<p><b>Personal Protective Equipment</b></p> <p>The contractor shall provide and keep on site an adequate supply of clean safety helmets and reflective vests for the use of all professional personnel and all authorised visitors</p> <p>F:..... V:.....T:.....</p>	Item
89	<p><b>Site Access for and Management of Direct Contracts</b></p> <p>The contractor shall allow direct contractors appointed by the Employer to access the site to execute work which does not form part of the Principal Building Agreement, concurrently with that of its (the principal building contractor), work. In this regard, the contractor shall provide any necessary assistance (e.g. ensuring placement of material orders, monitoring the manufacturing process, monitoring of raw materials availability, programming of works, etc.), to the principal agent in respect of management of any direct contracts.</p> <p>In this regard, is shall be deemed that all allowances have been made in the contract amount to ensure compliance with this clause</p> <p>F:..... V:.....T:.....</p>	Item
90	<p><b>Precontract Engagement</b></p> <p>Contractors shall be engaged prior to issuance of site possession to facilitate all necessary precontract work which shall include the construction work permit application, procurement of specialist sub-contractors, finalisation of contract and any design coordination between the contractor and the professional team. Contractors will be required to make the necessary allowances for such work during this period as no claims for additional preliminaries will be entertained</p> <p>Contractor to allow for a period of 30 (thirty) working days for the above</p> <p>F:..... V:.....T:.....</p> <p><b><u>Contract Provisions</u></b></p>	Item
91	<p>Tender Data Schedule</p> <p>F:..... V:.....T:.....</p>	Item
<b>Carried Forward</b>		R
<p>Section No. 1 Bill No. 1 Preliminaries</p>		

**Brought Forward**

R

92 General Conditions of Contract  
F:..... V:..... T:.....

Item

93 Special Conditions of Contract  
F:..... V:..... T:.....

Item

94 Contract Data  
F:..... V:..... T:.....

Item

**Carried Forward**

R

Section No. 1  
Bill No. 1  
Preliminaries

**Brought Forward**

R

**SUMMARY OF CATEGORIES**

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

**Carried to Final Summary**

R

Section No. 1  
Bill No. 1  
Preliminaries

Item No	<b><u>SECTION NO. 2</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO. 1</u></b>			
	<b><u>CARPENTRY AND JOINERY (PROVISIONAL)</u></b>			
	The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition)			
	<b><u>SUPPLEMENTARY PREMABLES</u></b>			
	<b><u>Fixing</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
	<b><u>TIMBER DOORS. WINDOWS. ETC</u></b>			
	<b><u>DOORS ETC</u></b>			
	<b><u>Solid core masonite flush doors</u></b>			
1	40mm Door 813 x 2032mm high (D019)	No	1	
	<b><u>FITTINGS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 1 Carpentry and Joinery (Provisional)			

**Brought Forward**

R

**General**

The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc

Prices are to include for all necessary filler pieces against walls etc.

**References**

References given in descriptions refer to the respective types of fittings detailed on the architect's drawing(s) annexed to these bills of quantities for tender purposes

**CUPBOARDS TO KITCHENS. BEDROOMS. ETC**

**Carried Forward**

R

Section No. 2  
Bill No. 1  
Carpentry and Joinery (Provisional)



**Brought Forward**

R

**Tender Specification**

**Kitchen Floor Cupboard Specifications**

**Worktops:**

20mm Thick Engineered Stone Counter with 3mm radiused edges and 40mm built up front edge

**Carcasses:**

16mm Thick PG Bison Mr Bisonboard with 2mm impact edging to exposed edges

**Skirting:**

Skirting / Plinth: 150mm High shutterply plinth

**Storage Floor Cupboard Specifications**

**Worktops:**

Dupoint basic surface clad counter with rounded edges (Colour: Crepsule)

**Carcasses:**

16mm Thick PG Bison Mr Bisonboard with 2mm impact edging to exposed edges

**Doors and Drawers:**

HPL Clad Drawers and Doors (Colour: Grey Cloud G029 EXM(S))

**Skirting:**

100mm High Plinth clad brushed aluminium

**Tenderers are to refer to Architect's Drawing No. SK-FIN-101**

**Kitchen cupboards with hinges, handles, drawer runners, etc.**

2 Floor cupboard overall size 3020 x 600 x 900mm high with top, sides, bottom, divisions, shelves, back and 2 No. double hinged doors and necessary framework

No

1

**Carried Forward**

R

Section No. 2  
 Bill No. 1  
 Carpentry and Joinery (Provisional)

<b>Brought Forward</b>		R
<b><u>Storage cupboards with hinges, handles, drawer runners, etc.</u></b>		
3	Floor cupboard overall size 5000 x 450 x 900mm high with top, sides, bottom, divisions, shelves, back and 4 No. double hinged doors and necessary framework	1
<b><u>WALL MOUNTED COUNTERTOP</u></b>		
<b><u>Dupoint basic surface clad counter with rounded edges and 50mm front edge to both sides (Colour: Crepuscule) including specialist wall mounted brackets</u></b>		
4	Counter size 3249 x 400 x 1000mm high	1
<b><u>CONSULT DESKS</u></b>		
<b><u>Tender Specification</u></b>		
<b>Consult Desk Specifications</b>		
<b>Desktops:</b>		
Dupoint basic surface clad counter with rounded edges and 50mm front edges to both sides (Colour: Crepuscule)		
<b>Privacy Screens:</b>		
Formica Clad Privacy Screen below Desks (Colour: Grey Cloud G029 EXM(S))		
140mm Wide Formica Clad Supawood Privacy Dividers with aluminium edge protection to all edges (Colour: Grey Cloud G029 EXM(S))		
<b><u>Tenderers are to refer to Architect's Drawing No. SK-FIN-101</u></b>		
<b><u>Consult Desks with worktop, shelves, etc. complete</u></b>		
5	Desk overall size 4571 x 1050 x 749mm high complete including worktop, privacy screens, shelving, skirting and necessary framing	1
<b><u>PROVISIONAL SUMS</u></b>		
<b>Carried Forward</b>		R
Section No. 2 Bill No. 1 Carpentry and Joinery (Provisional)		

**Brought Forward**

R

**Timber Cladded Acoustic Panelling**

- 6 Provide the sum of R 8000.00 (Eight Thousand Rand)  
for timber cladded acoustic panelling
- 7 Profit
- 8 Attendance

Item  
%  
%

8,000.00

**Carried Forward to Summary of Section No. 2**

Section No. 2  
Bill No. 1  
Carpentry and Joinery (Provisional)

R

Item No	<b><u>SECTION NO. 2</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO. 2</u></b>			
	<b><u>CEILING, PARTITIONS, AND ACCESS FLOORING (PROVISIONAL)</u></b>			
	The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition)			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Wall paper and paint or varnish finishes are given separately			
	Unless otherwise described, prices for partitions shall be deemed to include for standard flat section aluminium skirting on boarded sides			
	<b><u>PARTITIONS ETC</u></b>			
	<b><u>"Pelican Systems JUMBO FireWall" or other equal and approved 2 hour fire rated partition system with overall thickness of 111mm comprising internal framing formed of 63mm galvanised steel studs fixed at 600mm centres to galvanised steel top and bottom track, including any additional steel studding necessary at door openings, glazed or other apertures, abutments, ends, corners, etc. and covered with two layers of 12mm thick JUMBO Fire Resistant Plasterboard in single lengths to suit height, butt jointed and secured to studding with 25 and 41mm drywall screws at maximum 300mm centres, the joints taped over and flushed over with jointing compound prepared for painting</u></b>			
1	Partitions 3000mm high with bottom and top tracks plugged	m	5	
2	Extra over partition 3000mm high for corner	No	1	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 2 Ceilings, Partitions, and Access Flooring (Provisional)			

Brought Forward

R

"Pelican Systems" or other equal and approved Drywall partitioning system with overall thickness of 89mm comprising internal framing formed of 63mm galvanised steel studs fixed at 600mm centres to galvanised steel top and bottom track, including any additional steel studding necessary at door openings, glazed or other apertures, abutments, ends, corners, etc. and covered with 12mm thick JUMBO Plasterboard in single lengths to suit height, butt jointed and secured to studding with 25mm drywall screws at maximum 300mm centres, the joints taped over and flushed over with jointing compound prepared for painting

3 Partition 3000mm high with bottom and top tracks plugged

m

6

Carried Forward to Summary of Section No. 2

Section No. 2  
Bill No. 2  
Ceilings, Partitions, and Access Flooring (Provisional)

R

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p>			
<p><b><u>BILL NO 3</u></b></p>			
<p><b><u>FLOOR COVERINGS, WALL LININGS, ETC (PROVISIONAL)</u></b></p>			
<p>The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition)</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Method</u></b></p>			
<p>The method to be used shall be either the monolithic method or the bonded method.</p>			
<p><b><u>Preparation</u></b></p>			
<p>For granolithic applied monolithically, the concrete floor shall be swept clean. For granolithic to be bonded to the floor slab, the slab surface shall be hacked until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic.</p>			
<p><b><u>Laying</u></b></p>			
<p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated or epoxy rake to the required levels.</p>			
<p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated or epoxy rake to the required levels.</p>			
<p>After wood floating or epoxy raking, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated.</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 2            Bill No. 3            Floor Coverings, Wall Linings, etc. (Provisional)</p>			R

**Brought Forward**

R

**Fixing**

Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc.

**FLOOR COVERINGS**

**2.5mm Thick "Belgotex" or other equal and approved fully flexible sheeting with welded joints**

1	On floors	m2	73
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**SCREEDS**

**"Tal Screedmaster" or other equal and approved**

2	On floors	m2	73
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**"TAL" Vapourscreen WB or equally approved**

3	On floors	m2	73
---	-----------	----	----

**POLISH. SEALERS. ETC**

4	Polish on vinyl flooring	m2	73
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**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 3  
 Floor Coverings, Wall Linings, etc. (Provisional)

R

Item No	<b><u>SECTION NO. 2</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO. 4</u></b>			
	<b><u>IRONMONGERY (PROVISIONAL)</u></b>			
	The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition)			
	<b><u>SHELVES ETC</u></b>			
	<b><u>Steel shelving with standard powder coated finish braced and bolted to the wall with Mild Steel bolts</u></b>			
1	914 x 305 x 1905mm High shelf	No	7	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 Bill No. 4 Ironmongery (Provisional)			



Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p>			
<p><b><u>BILL NO. 5</u></b></p>			
<p><b><u>METALWORK (PROVISIONAL)</u></b></p>			
<p>The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition)</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Aluminium doors, windows, etc</u></b></p>			
<p>Doors and windows shall comply with AAAMSA design criteria</p>			
<p>Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules /drawings</p>			
<p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed</p>			
<p>Tenderers are to note that should there be any doubt or obscurity as to the meaning and intent of any descriptions, the Contractor must have the same rectified and allow for same accordingly in his tender. The Contractor is to include in his rates for all that he considers necessary for the proper construction of the windows and doors. No claims whatsoever will be afterwards admitted due to the Contractor having failed to comply with these conditions</p>			
<p>The following certificates shall be provided prior to commencement of site work:</p>			
<p>1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 2 Bill No. 5 Metalwork (Provisional)</p>			
			R

**Brought Forward**

R

2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively
3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process
4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked
5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years

Rates shall include for the following:

1. All opening and fixed lights, coupling mullions and transoms, support steelwork, fittings, ironmongery, etc., as required and specified.
2. Complete glazing as described, with and including matching aluminium glazing beads and gaskets and glazed in accordance with the manufacturer's written instructions
3. Building in and fixing into preformed openings. Window opening sizes to be verified on site before windows can be manufactured. Shop drawings to be submitted for approval
4. Silicone pointing with a silicone sealant recommended by AAAMSA on all door / window and structure junctions

**PRESSED STEEL DOOR FRAMES**

**Carried Forward**

R

Section No. 2  
Bill No. 5  
Metalwork (Provisional)

		Brought Forward		R
<b><u>1,2mm Double rebated frames suitable for 110mm thick partition</u></b>				
1	Frame for door 813 x 2032mm high	No	1	
<b><u>CURTAIN WALLS. SHOPFRONTS. ETC</u></b>				
<b><u>ALUMINIUM SHOPFRONTS</u></b>				
<b><u>Glazing shall be in accordance with SANS 10160, SANS 10137, SANS 10400 (Part N of section 3) and SANS 1263 with clear glass. All complying with AAAMSA performance criteria A0</u></b>				
<b><u>Powder coated shopfront units with 6.3mm clear safety glazing, complete with all ironmongery</u></b>				
2	Purpose made glazed shopfront, 3425 x 2400mm high with door size 900 x 2400mm (FSF-2)	No	1	
3	Purpose made glazed shopfront 3112 x 2400mm high (FSF-1)	No	1	
4	Purpose made glazed shopfront 2952 x 2400mm high (FSF-3)	No	1	
<b><u>ALUMINIUM STACKING SLIDING DOOR</u></b>				
<b><u>Powder coated shopfront units with 6.38mm laminated safety glazing, complete with all ironmongery</u></b>				
5	Purpose made glazed stacked sliding doors overall size 6500 x 2400mm high with 9 No. leaves, each a maximum of 750mm wide including 1 No. active leaf complete with track etc.	No	1	
<b><u>BUDGETARY ALLOWANCES</u></b>				
		Carried Forward		R
Section No. 2 Bill No. 5 Metalwork (Provisional)				

Brought Forward

R

The following budgetary allowances are for work to be executed either by the contractor or any nominated / selected sub-contractor as instructed by the principal agent and priced at bill rates to be agreed in terms of the contract. Tenderers are to allow in their overall preliminaries costs for this scope of work as no additional Preliminaries will be entertained should this work proceed.

The Employer reserves the right to execute this work in part or in whole or omit the entire scope.

6 Provide the amount of R 10 000.00 (Ten Thousand Rand) for laser cut aluminium signage

Item

10,000.00

Carried Forward to Summary of Section No. 2

Section No. 2  
 Bill No. 5  
 Metalwork (Provisional)

R

Item No	<b><u>SECTION NO. 2</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO. 6</u></b>			
	<b><u>PLASTERING (PROVISIONAL)</u></b>			
	The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition)			
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>Cement plaster wood floated for tiles, on brickwork</u></b>			
1	On walls	m2	1	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 Bill No. 6 Plastering (Provisional)			

Item No	<b><u>SECTION NO. 1</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO. 7</u></b>			
	<b><u>TILING (PROVISIONAL)</u></b>			
	The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition)			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Patterns</u></b>			
	Unless otherwise described, tiles shall be laid with continuous joints in both directions			
	<b><u>Fixing</u></b>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat			
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles			
	<b><u>WALL TILING</u></b>			
	<b><u>100 x 100 x 8mm Thick gloss ceramic tiles (Color: Picollo Dark Grey) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout</u></b>			
1	On walls	m2	1	
	<b>Carried Forward to Summary of Section No. 2</b>			
	Section No. 2 Bill No. 7 Tiling (Provisional)			
				R

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p>			
<p><b><u>BILL NO. 8</u></b></p>			
<p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p>			
<p>The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition)</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></b></p>			
<p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p>			
<p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p>			
<p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p>			
<p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p>			
<p><b><u>Sealing of edges</u></b></p>			
<p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p>			
<p><b><u>PVC-U pipes and fittings</u></b></p>			
<p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p>			
<p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 2 Bill No. 8 Plumbing and Drainage (Provisional)</p>			
			R

**Brought Forward**

R

**PVC-U pressure pipes and fittings**

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints

**High density polyethylene (HDPE) pipes and fittings**

Pipes shall be type IV and of the class specified with compression fittings

**Polypropylene pipes**

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings

Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

**Copper pipes**

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

**Reducing fittings**

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

**Carried Forward**

R

Section No. 2  
Bill No. 8  
Plumbing and Drainage (Provisional)



**Brought Forward**

R

**Fixing of pipes**

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level

**Paper wrapping to pipes**

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

**Disinfection of water pipework**

Water pipework is to be disinfected at completion

**General**

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

**As-built drawings**

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

**SANITARY FITTINGS**

**Carried Forward**

R

Section No. 2  
Bill No. 8  
Plumbing and Drainage (Provisional)

<b>Brought Forward</b>		R
<b><u>"Frasa" or other equal and approved</u></b>		
1	860 x 500mm Nudus Grade 304 18/10 polished stainless steel single bowl inset sink (Code: VNUD45DX) fitted onto cupboard (elsewhere specified)	No 1
<b><u>WASTE UNIONS ETC</u></b>		
<b><u>"Cobra" or other equal and approved</u></b>		
2	32mm Waste Basin slotted 303 Chrome plated (Code: 303)	No 1
<b><u>TAPS. VALVES. ETC</u></b>		
3	15mm Brass stopcock (Code: 038101)	No 1
4	15 x 10mm Angle Valve (Code: TVAC1410/CH)	No 1
<b><u>"Hansgrohe" or other equal and approved</u></b>		
5	Brass sink mixer tap installed in accordance with manufacturers recommendations	No 1
<b>Carried Forward to Summary of Section No. 2</b>		R
Section No. 2		
Bill No. 8		
Plumbing and Drainage (Provisional)		

Item No	<b><u>SECTION NO. 2</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO. 9</u></b>			
	<b><u>ELECTRICAL INSTALLATION (PROVISIONAL)</u></b>			
	The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition)			
	<b><u>ELECTRICAL INSTALLATION</u></b>			
	<b><u>Electrical installation as detailed on attached Bills of Quantities</u></b>			
	Tenderers are to note that the sum included the amount column for this section of the Bill of Quantities, should be the total of all priced items in the Electrical Installation, Bill of Quantities as attached hereafter.			
1	Electrical Installation (transferred from page 2 of the attached Electrical BOQ)	Item		
	<b>Carried Forward to Summary of Section No. 2</b>		R	
	Section No. 2 Bill No. 9 Electrical Work (Provisional)			

ELECTRICAL INSTALLATION					
Internal Installation					
Item	Description	Unit	Quantity	Rate	Amount
1	<b>Draw Wires</b>				
1.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation				
1.1.1	Supply	m	60		
1.1.2	Install	m	60		
2	<b>Conduit Work</b>				
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work. In Ceiling space and Timber work:</u>				
2.1	20mm PVC Conduit				
2.1.1	Supply	m	70		
2.1.2	Install	m	70		
2.2	25mm PVC Conduit				
2.2.1	Supply	m	50		
2.2.2	Install	m	50		
3	<b>Conduit Boxes</b>				
3.1	20mm diameter round boxes for wiring and unswitched 5A Plugs				
3.1.1	Supply	No	12		
3.1.2	Install	No	12		
4	<b>Wall Boxes</b>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
4.2	100 x 100 x 50mm				
4.2.1	Supply	No	42		
4.2.2	Install	No	42		
5	<b>PVC Wiring</b>				
	<u>PVC Wiring in conduits:</u>				
5.1	2.5mm <sup>2</sup> for lights circuits.housewire (Red, Black, Green)				
5.1.1	Supply	m	15		
5.1.2	Install	m	15		
5.2	4mm <sup>2</sup> for plug sockets circuits and mechanical units.housewire (Red, Black, Green)				
5.2.1	Supply	m	30		
5.2.2	Install	m	30		
5.3	6mm <sup>2</sup> for small power with extra load e:g stove circuits, lifts.housewire (Red, Black, Green)				
5.3.1	Supply	m	5		
5.3.2	Install	m	5		
<b>Sub Total Carried Forward</b>					<b>R -</b>

Item	Description	Unit	Quantity	Rate	Amount
<b>Sub Total Brought Forward</b>					<b>R -</b>
6	<b><u>Light Switches</u></b>  Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas				
6.1	Light Occupancy sensor				
6.1.1	Supply	No	4		
6.1.2	Install	No	4		
7	<b><u>Socket Outlets</u></b>  Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.  <u>Flush switched sockets type:</u>				
7.1	16A Double Switch Normal Socket Outlet, Recessed Mounted @400mm AFFL				
7.1.1	Supply	NO	4		
7.1.2	Install	NO	4		
7.2	16A Single Switch Normal Socket Outlet, Recessed Mounted @400mm AFFL				
7.2.1	Supply	NO	4		
7.2.2	Install	NO	4		
7.3	Euro Plug Socket				
7.3.1	Supply	NO	1		
7.3.2	Install	NO	1		
8	<b><u>Power Skirting</u></b>  Steel 2 Compartment Power Skirting, Easter Oak, with End caps Slices and Accessories				
8.1	Steel 2 Compartment Power Skirting, Easter Oak, with End caps Slices and Accessories				
8.1.1	Supply	m	15		
8.1.2	Install	m	15		
8.2	16A Single Switch Normal Socket Outlet, Recessed Mounted @400mm AFFL				
8.2.1	Supply	NO	7		
8.2.2	Install	NO	7		
8.3	Euro Plug Socket				
8.3.1	Supply	NO	7		
8.3.2	Install	NO	7		
8.4	DATA Outlet -100mm x 100mm Wall Box with 1 x 25mm Conduit to DATA Duct				
8.4.1	Supply	NO	7		
8.4.2	Install	NO	7		



Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p>			
<p><b><u>BILL NO. 10</u></b></p>			
<p><b><u>PAINTWORK (PROVISIONAL)</u></b></p>			
<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p>			
<p><b><u>Previously painted plastered surfaces</u></b></p>			
<p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p>			
<p><b><u>Previously painted metal surfaces</u></b></p>			
<p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p>			
<p><b><u>Previously painted wood surfaces</u></b></p>			
<p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p>			
<p><b><u>PAINT SPECIFICATIONS</u></b></p>			
<p>All painting shall be done in accordance with "Plascon" or other equal and approved specifications unless otherwise described</p>			
<p><b><u>PAINTWORK ETC TO NEW WORK</u></b></p>			
<p><b><u>ON PLASTERBOARD SURFACES</u></b></p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 2 Bill No. 10 Paintwork (Provisional)</p>			
			R

Brought Forward			R
	<u>One coat "PLASCON" trade alkali resistant plaster primer and two coats "PLASCON" essential collection for interior use or equally approved (Colour: Silver 38)</u>		
1	Drywall Partitions	m2	50
	<u>One coat "PLASCON" trade alkali resistant plaster primer and two coats "PLASCON" double velvet for interior use or equally approved (Colour: Park Water B4-C2-1)</u>		
2	Drywall Partitions	m2	15
	<b><u>ON METAL SURFACES</u></b>		
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>		
3	Door frames	m2	1
	<b><u>ON WOOD SURFACES</u></b>		
	<u>One coat primer and two coats premium quality polyurethane enamel paint</u>		
4	Doors	m2	3
	<b><u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u></b>		
	<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>		
	<u>One coat "PLASCON" trade alkali resistant plaster primer and two coats "PLASCON" essential collection for interior use or equally approved (Colour: Silver 38)</u>		
5	Walls	m2	55
	<u>One coat "PLASCON" trade alkali resistant plaster primer and two coats "PLASCON" double velvet for interior use or equally approved (Colour: Park Water B4-C2-1)</u>		
6	Walls	m2	10
<b>Carried Forward to Summary of Section No. 2</b>			R
Section No. 2			
Bill No. 10			
Paintwork (Provisional)			



Item No	<b><u>SECTION NO. 2</u></b>	Quantity	Rate	Amount
	<b><u>BILL NO. 11</u></b>			
	<b><u>MECHANICAL WORKS (PROVISIONAL)</u></b>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)			
	<b><u>MECHANICAL INSTALLATION</u></b>			
	<b><u>Mechanical installation as detailed on attached Bills of Quantities</u></b>			
	Tenderers are to note that the sum included the amount column for this section of the Bill of Quantities, should be the total of all priced items in the Mechanical Installation, Bill of Quantities as attached hereafter.			
1	Mechanical Installation (transferred from page 3 of the attached Mechanical BOQ)	Item		
	<b>Carried Forward to Summary of Section No. 2</b>		R	
	Section No. 2 Bill No. 11 Mechanical Work (Provisional)			

ITEM	DESCRIPTION AREA	UNIT	QTY	RATE	AMOUNT	
	<b>BILL No. 1 : PRELIMINARY &amp; GENERAL</b>					
1.1	Compliance with General Conditions of Contract : Insurances, Sureties, etc as outlined in the Principal Contractor's Preliminaries.					
	Fixed	Item	1			
	Value Related	Item	1			
	Time Related	Item	1			
1.2	Establish on Site and provision of buildings and storage facilities including de-establishment of site, cleaning and tidying up after completion of contract					
	Fixed	Item	1			
	Value Related	Item	1			
	Time Related	Item	1			
1.3	Tools and equipment, Communication, transport.					
	Fixed	Item	1			
	Value Related	Item	1			
	Time Related	Item	1			
1.4	Contract Management, Company overheads and supervision of the Works including attendance of site meetings (2 per month).					
	Fixed	Item	1			
	Value Related	Item	1			
	Time Related	Item	1			
1.5	Provision of all drawings and manuals as specified including As-Installed drawings	Item	1			
1.6	Provision of all drawings and CoC's for DB as specified including As-Installed drawings, connection of air-conditioning units to electrical isolator provided by others, for HVAC Installation work.	Item	1			
1.7	Compliance with Construction Regulations and Health & Safety Act.	Item	1			
1.8	The Contractor to investigate the Fan Coil Unit Compatibility with the Existing Central HVAC Chiller plants, to identify the Chiller plant supply this area. And to make sure that the existing HVAC systems may work better with certain brands or models.	Item	1			
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					<b>R</b>	<b>-</b>



ITEM	DESCRIPTION AREA	UNIT	QTY	RATE	AMOUNT
	Carried forward from Previous Page				
2.7	<b>SPIGOT</b>				
2.7.1	Supply, Install, test, commission and provide 12 month guarantee for 260mm diameter Spigot.	m	2		
3.6	<b>STOP END</b>				
3.6.1	Supply, Install, test, commission and provide 12 month guarantee for 125mm dia duct stop end.	m	2		
3.7	<b>SPIGOT</b>				
3.7.1	Supply, Install, test, commission and provide 12 month guarantee for 125mm diameter Spigot.	m	2		
3.7.2	Supply, Install, test, commission and provide 12 month guarantee for 170mm diameter Spigot.	m	1		
3.7.3	Supply, Install, test, commission and provide 12 month guarantee for 150mm diameter Spigot.	m	1		
3.8	<b>AIR-DAMPERS</b>				
3.8.1	Supply, Install, test, commission and provide 12 month guarantee for air balancing damper to fit 125mm diameter spigot.	m	2		
3.8.2	Supply, Install, test, commission and provide 12 month guarantee for air balancing damper to fit 170mm diameter spigot.	m	1		
3.8.3	Supply, Install, test, commission and provide 12 month guarantee for air balancing damper to fit 150mm diameter spigot.	m	1		
3.9	<b>FIRE-DAMPERS</b>				
3.9.1	Supply, Install, test, commission and provide 12 month guarantee for balancing damper to fit 125mm diameter spigot.	m	2		
3.9.2	Supply, Install, test, commission and provide 12 month guarantee for balancing damper to fit 170mm diameter spigot.	m	1		
3.9.3	Supply, Install, test, commission and provide 12 month guarantee for balancing damper to fit 150mm diameter spigot.	m	1		
2.11	<b>CEILING MOUNTED SUPPLY AIR-DISC VALVES</b>				
2.11.1	Supply, install, test and commission and provide 12 month guarantee for air ceiling mounted supply air disc valve of 125mm dia, with hangers, brackets and etc.	No.	0		
2.12	<b>HANGERS AND BRACKETS</b>				
2.12.1	Supply, Install, test, commission and provide 12 month guarantee for all hangers, brackets and etc for ventilation system (Fan Coil Unit).	Sum	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY PAGE</b>					

ITEM	DESCRIPTION AREA	AMOUNT
1	BILL No. 1: PRELIMINARY & GENERAL	
2	BILL No.2: THE FINANCE	
3	SUB-TOTAL - 1	
4	CONTINGENCY @5 %	
5	SUB-TOTAL - 2	
6	VALUE ADDED TAX (VAT) 15%	
7	FINAL VALUE INCL. VAT CARRIED FORWARD TO FINAL SUMMARY	

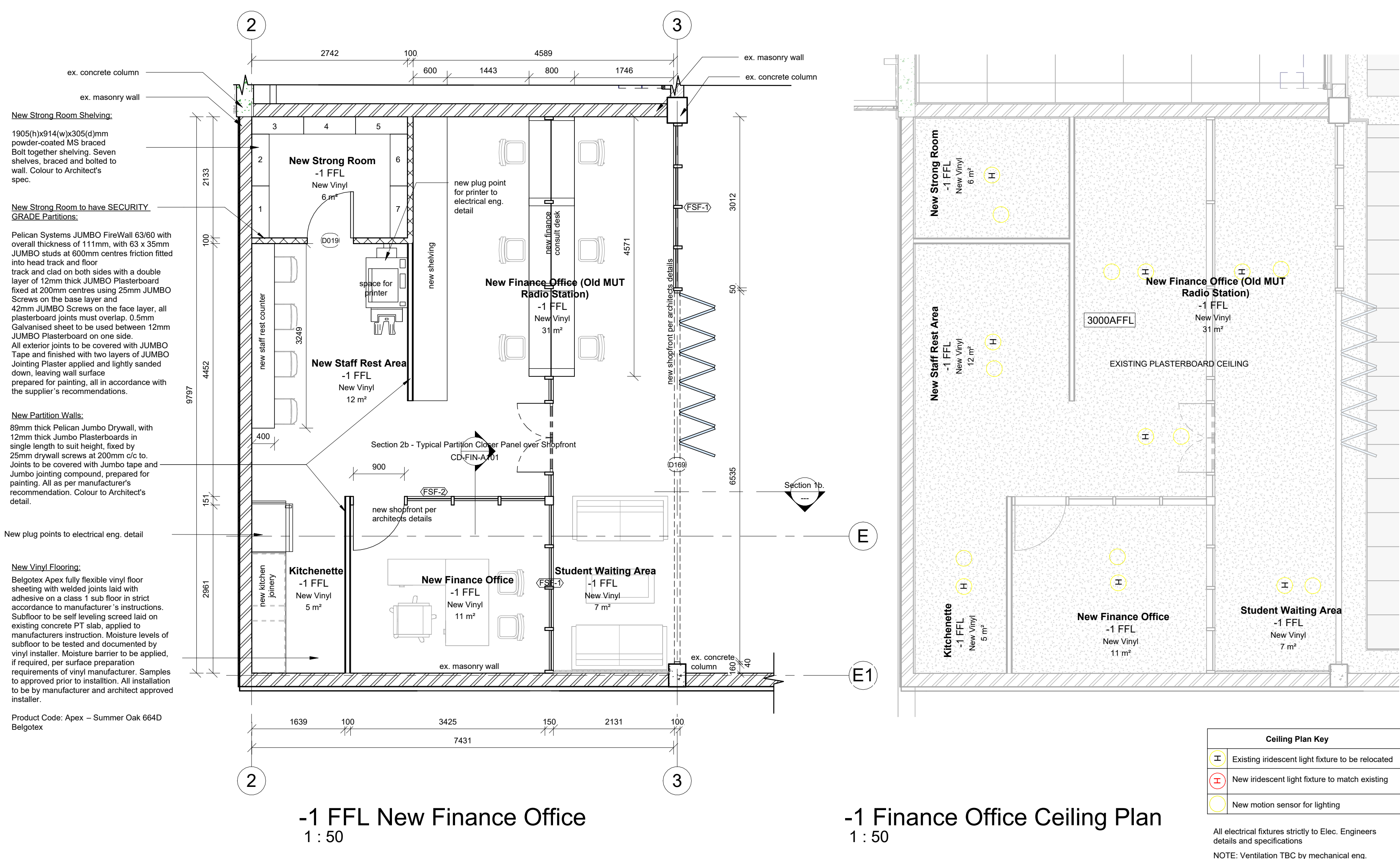
**SECTION SUMMARY - Builders Work**

<b>Bill No</b>		<b>Page No</b>		<b>Amount</b>
1	Carpentry and Joinery (Provisional)	32		
2	Ceilings, Partitions, and Access Flooring (Provisional)	34		
3	Floor Coverings, Wall Linings, etc. (Provisional)	36		
4	Ironmongery (Provisional)	37		
5	Metalwork (Provisional)	41		
6	Plastering (Provisional)	42		
7	Tiling (Provisional)	43		
8	Plumbing and Drainage (Provisional)	47		
9	Electrical Work (Provisional)	48		
10	Paintwork (Provisional)	50		
11	Mechanical Work (Provisional)	51		
<b>Carried to Final Summary</b>				
Section No. 2			R	

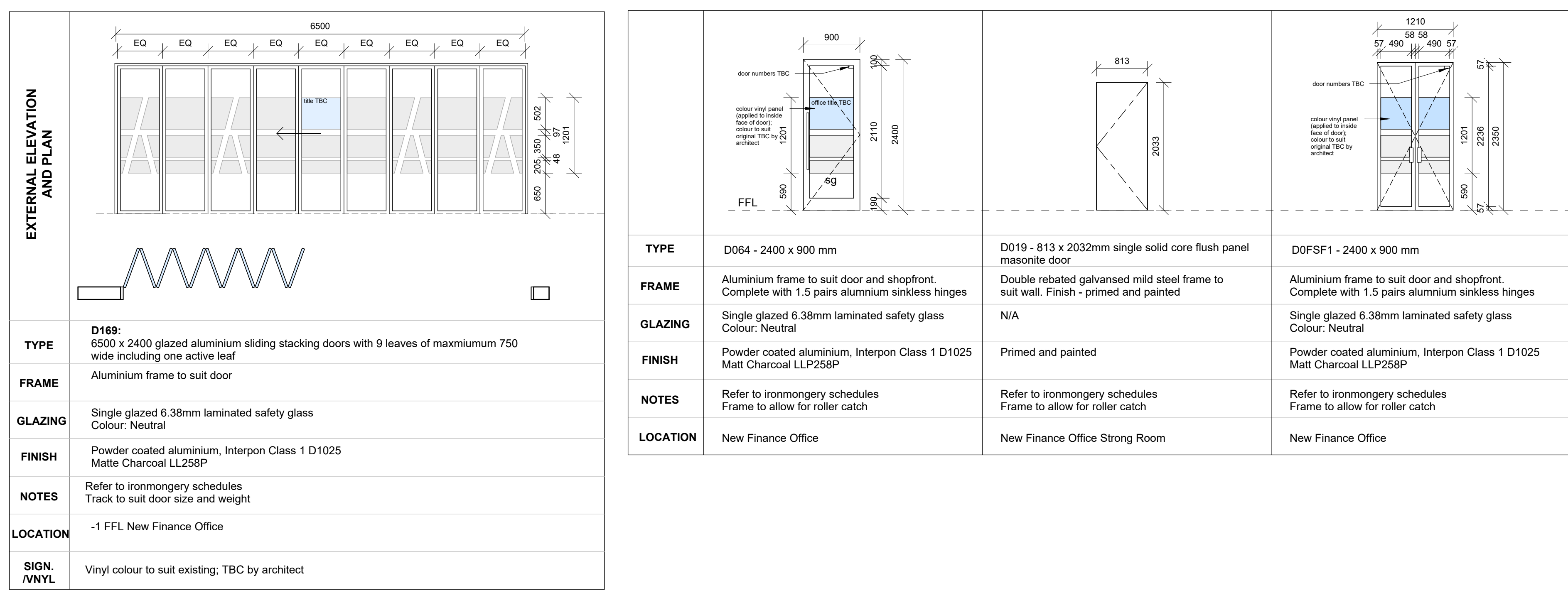
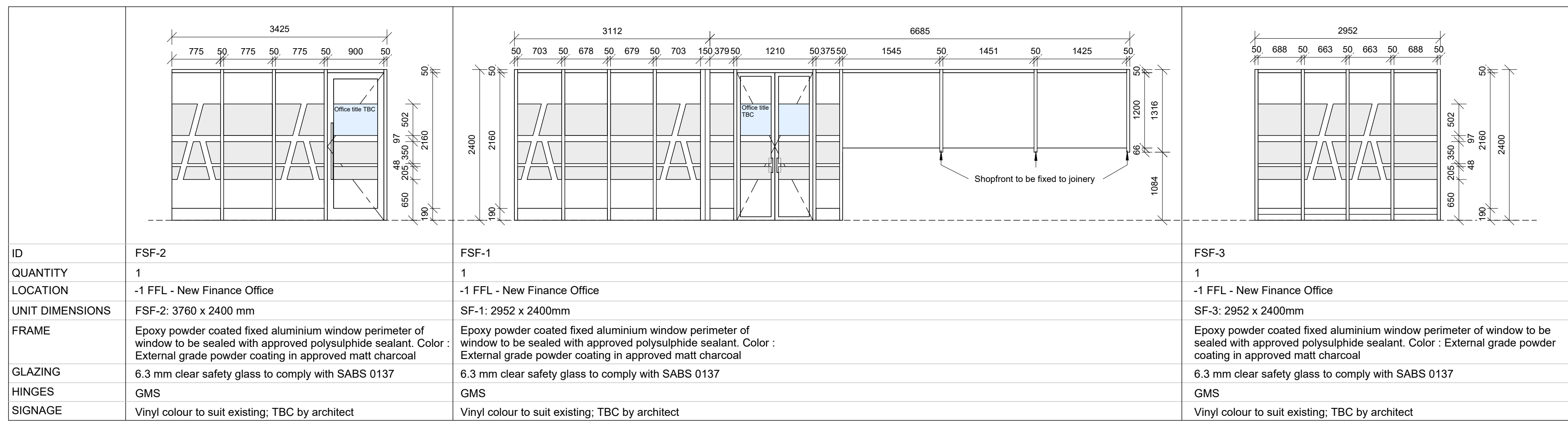
Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries	27	
2	Builders Work	52	
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	ADD: CONTINGENCY ALLOWANCE	Item	67,000. 0
	SUB - TOTAL		R
	ADD: VAT @15% OF THE SUB-TOTAL ABOVE		R
	TOTAL		R
	<b>Carried to Form of Tender</b>		R



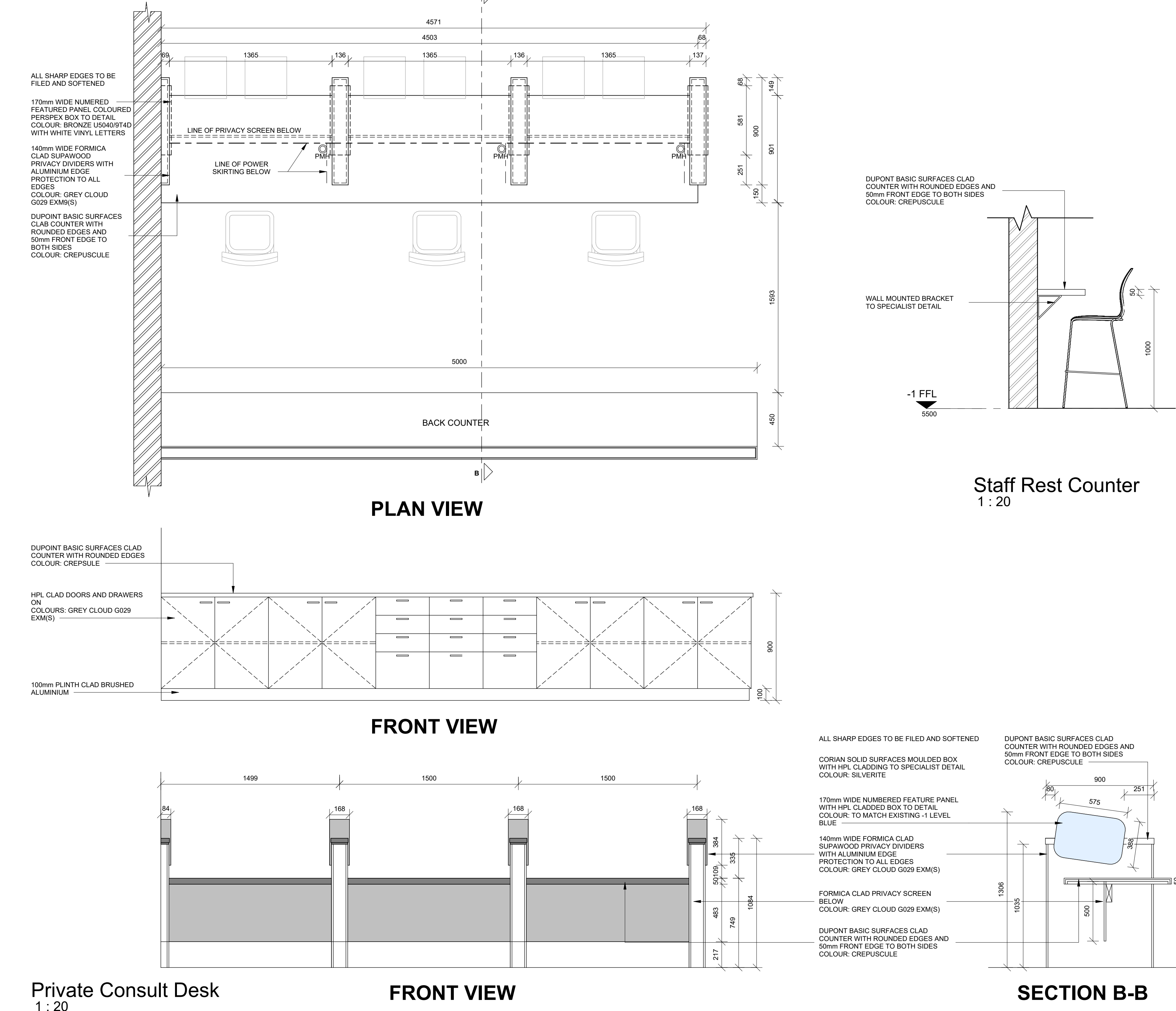
# NEW FINANCE OFFICE IN EXISTING RADIO STATION AREA



# SHOPFRONT SCHEDULE



# JOINERY DETAILS



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**REVISIONS**

No.	Description	Date	By



Owner/Client: MANGOSUTHU UNIVERSITY OF TECHNOLOGY

Owner/Client Signature: *KP MAWESANA*

Arch. Signature: *PRArch 7902*

Arch. Council no.: PRArch 7902



Project Title:  
PLAN NO.0174.12.13 STUDENT CENTRE FOR MANGOSUTHU UNIVERSITY OF TECHNOLOGY ON (ERF 13 OF UMLAZI SECTION)

301 GRIFFITHS KENNEDY HIGHWAY  
UMHANGU  
DURBAN  
4001

TENDER:  CONSTRUCTION  SUBMISSION:  
APPROVAL:  INFORMATION  DATE: 2020/01/27  
date: 2024/09/17 14:37:18 scale: As indicated  
drawn: L.C. Rev: As indicated

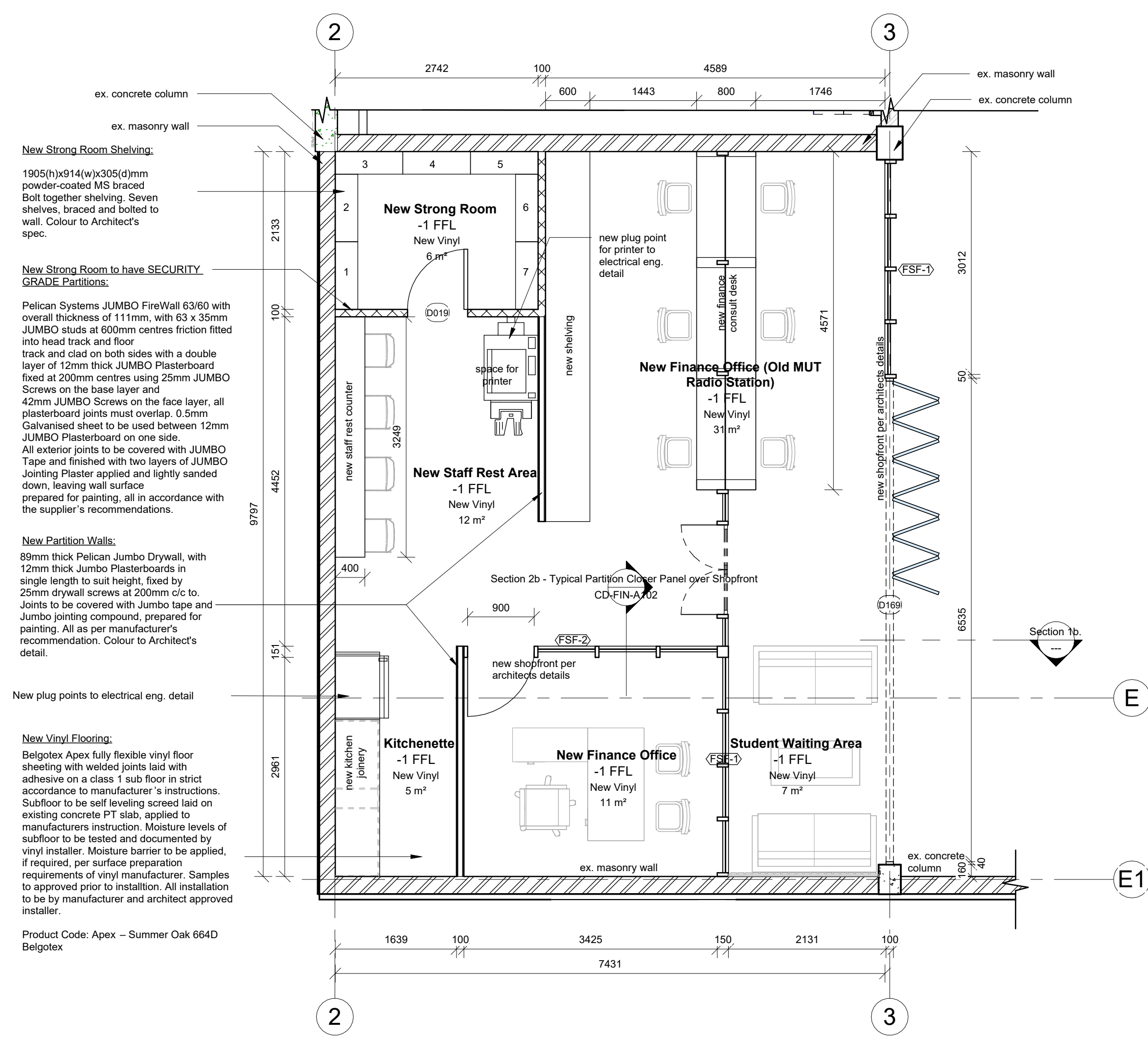
Drawing Description:  
Tender Drawing

New Finance Office (Old MUT Radio Station)

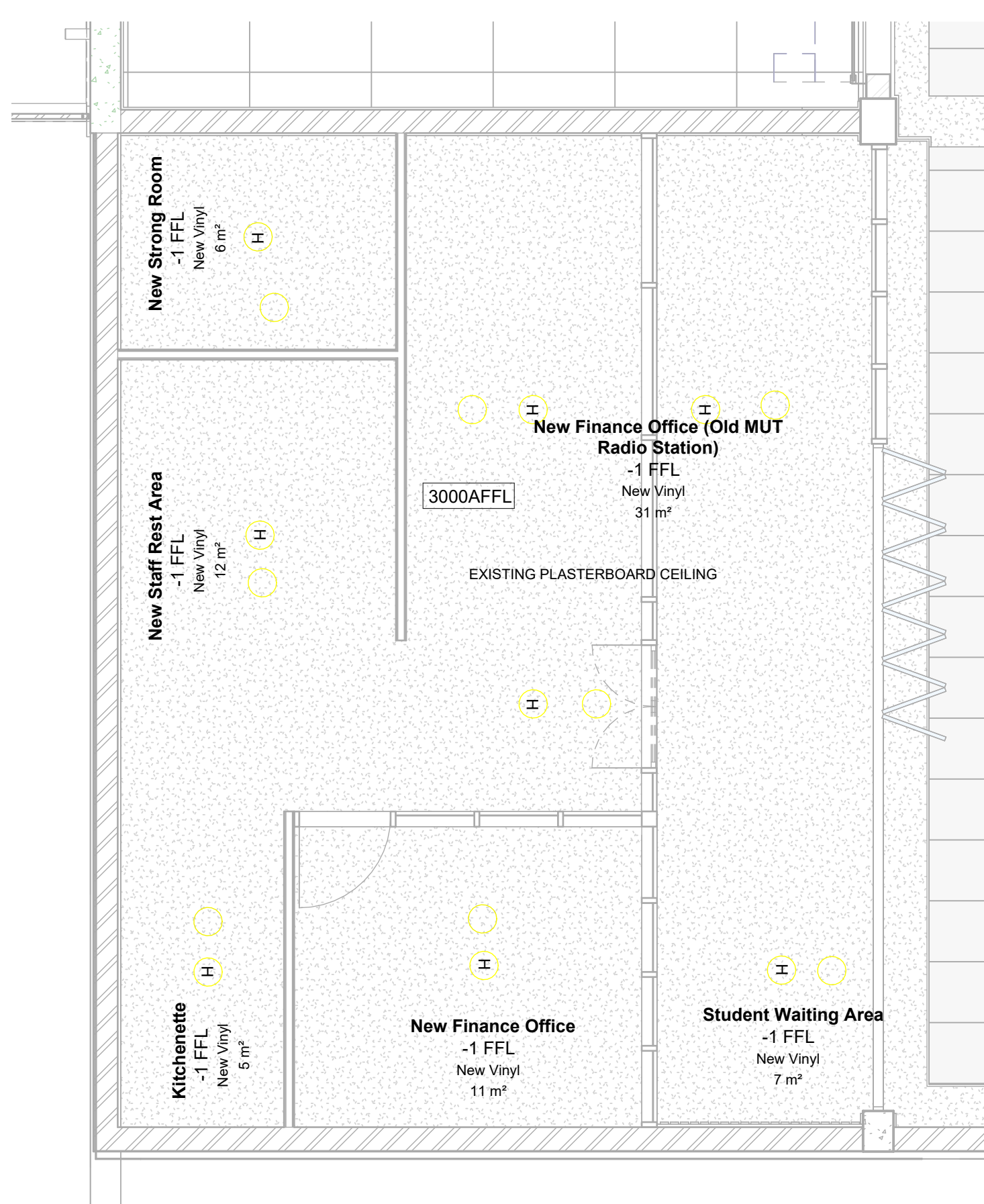
Job No.	Drawing No.	Rev.
S-325.1	CD-FIN-A101	



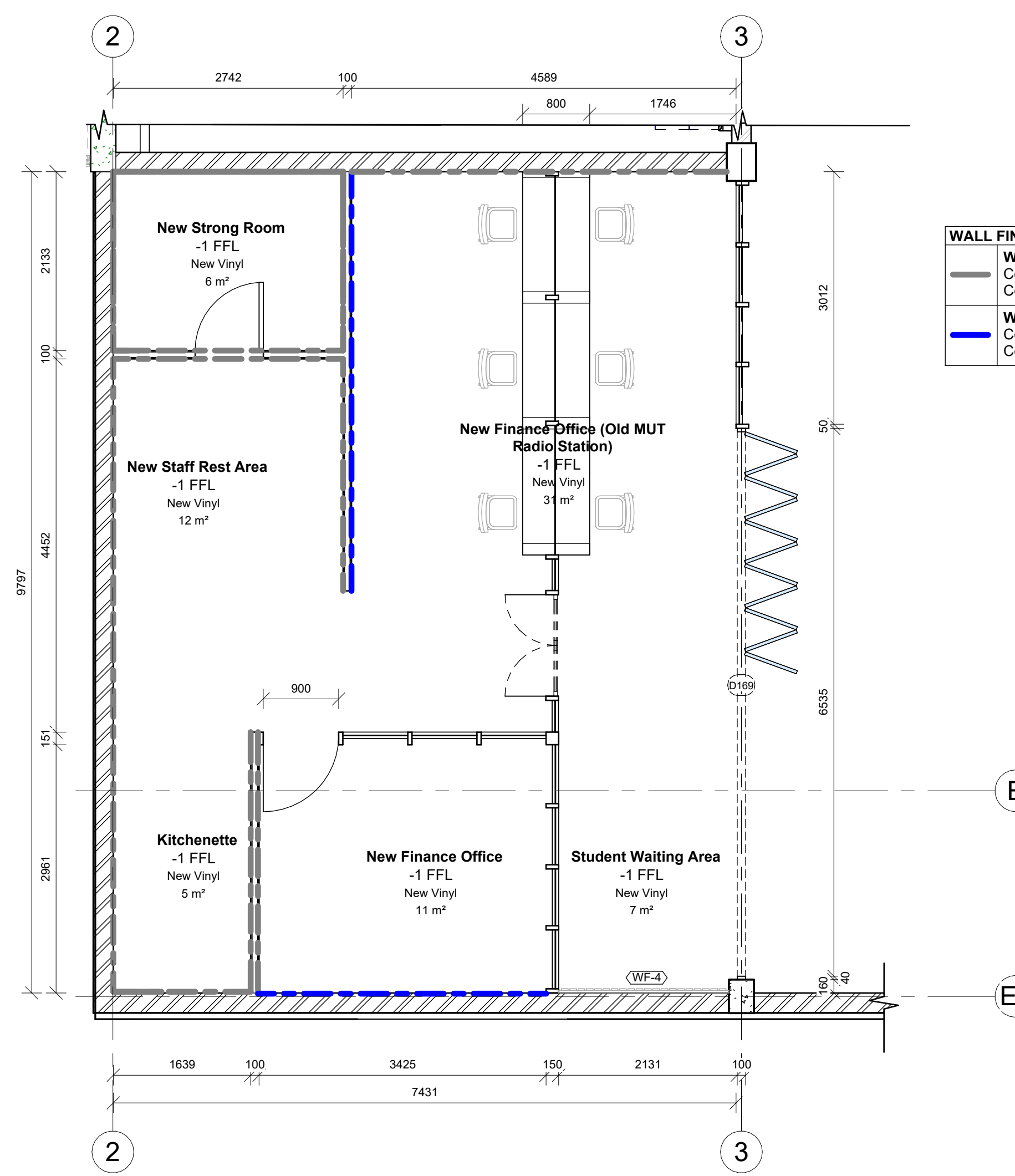
# NEW FINANCE OFFICE IN EXISTING RADIO STATION AREA



-1 FFL New Finance Office  
1 : 50



-1 Finance Office Ceiling Plan  
1 : 50



-1 FFL New Finance Office Wall  
Finishes Layout Plan  
1 : 50

**GENERAL DRAWING NOTES**

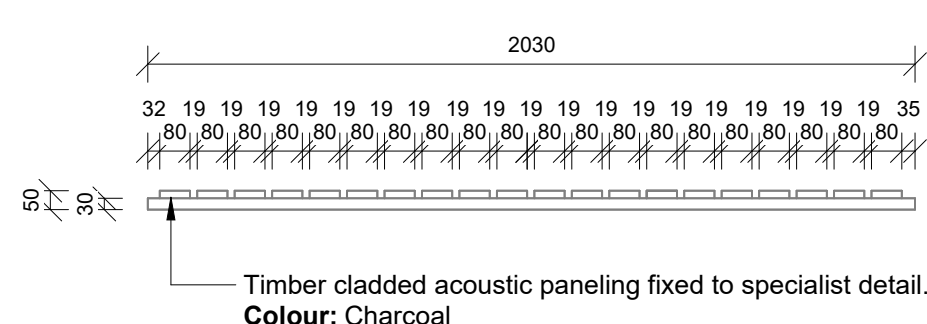
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- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO MANUFACTURE.

**NOTES FOR ELECTRONIC DRAWINGS**

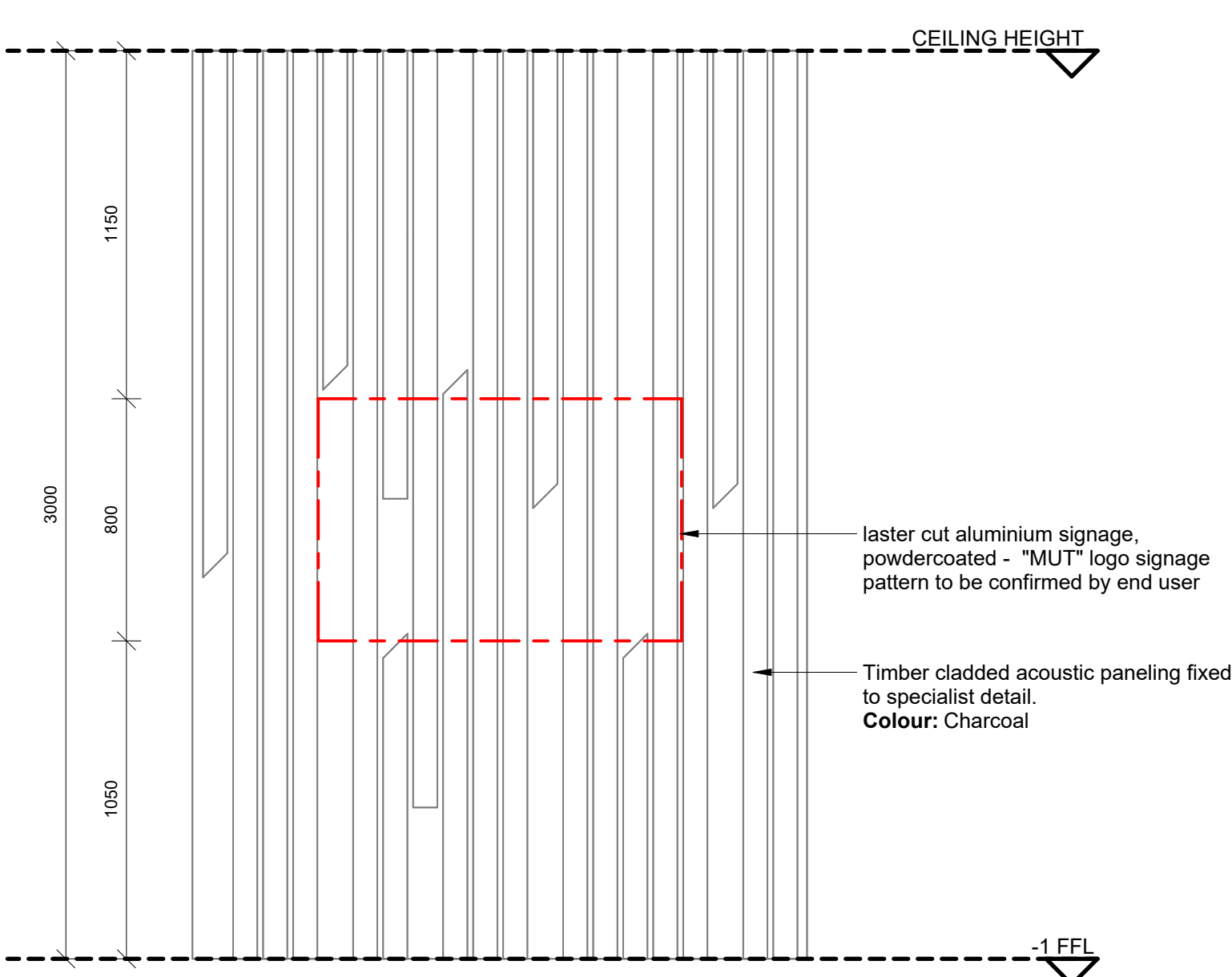
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REVISIONS			
No.	Description	Date	By

## ACOUSTIC PANEL DETAIL



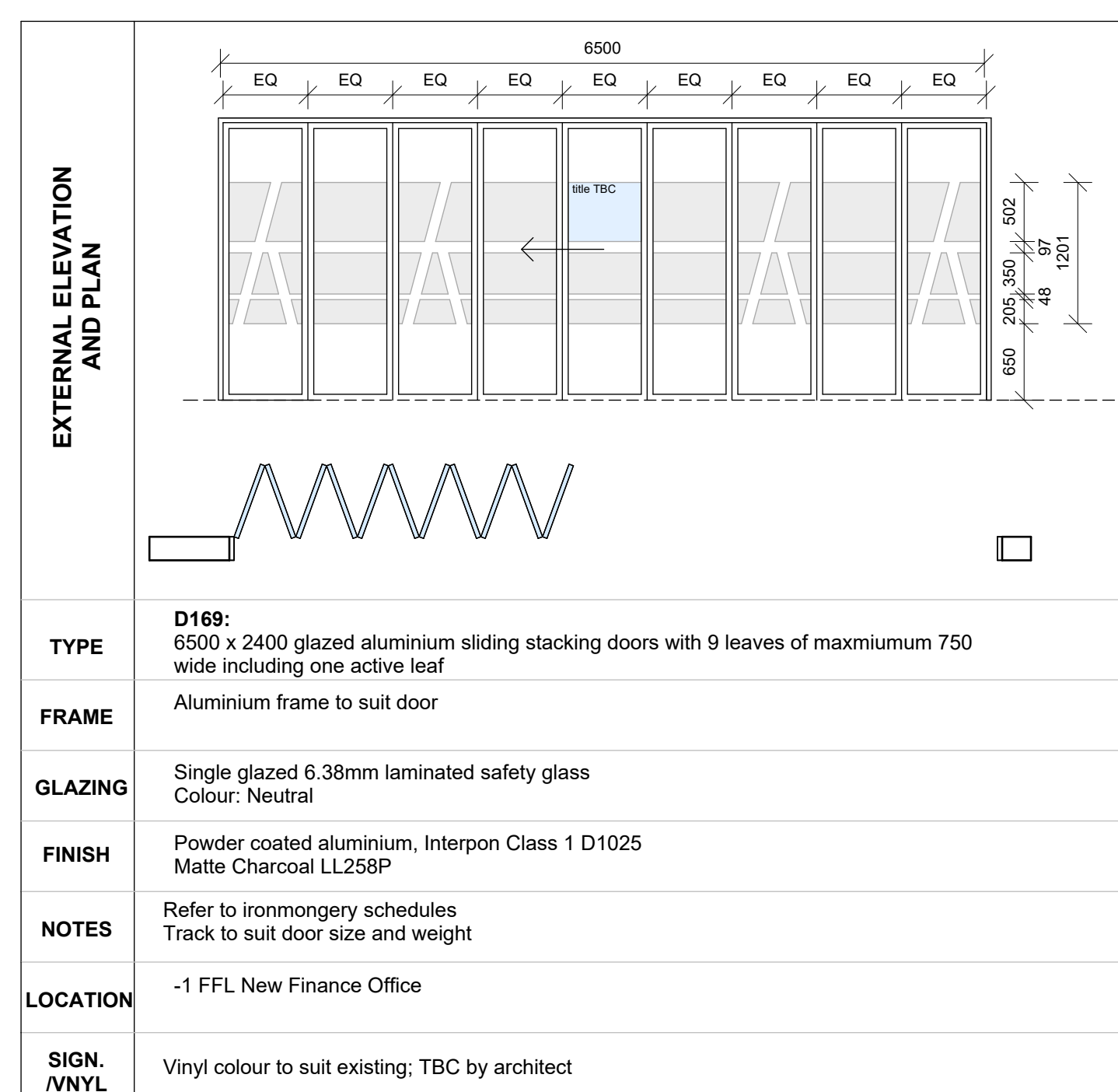
Plan Detail: WF-4  
1 : 20



Elevation Front: WF-4  
1 : 20

## SHOPFRONT SCHEDULE

ID	FSF-2	FSF-1	FSF-3
QUANTITY	1	1	1
LOCATION	-1 FFL - New Finance Office	-1 FFL - New Finance Office	-1 FFL - New Finance Office
UNIT DIMENSIONS	FSF-2: 3760 x 2400 mm	SF-1: 2952 x 2400mm	SF-3: 2952 x 2400mm
FRAME	Epoxy powder coated fixed aluminium window perimeter of window to be sealed with approved polysulphide sealant. Color : External grade powder coating in approved matt charcoal	Epoxy powder coated fixed aluminium window perimeter of window to be sealed with approved polysulphide sealant. Color : External grade powder coating in approved matt charcoal	Epoxy powder coated fixed aluminium window perimeter of window to be sealed with approved polysulphide sealant. Color : External grade powder coating in approved matt charcoal
GLAZING	6.3 mm clear safety glass to comply with SABS 0137	6.3 mm clear safety glass to comply with SABS 0137	6.3 mm clear safety glass to comply with SABS 0137
HINGES	GMS	GMS	GMS
SIGNAGE	Vinyl colour to suit existing; TBC by architect	Vinyl colour to suit existing; TBC by architect	Vinyl colour to suit existing; TBC by architect



TYPE	D064 - 2400 x 900 mm	D019 - 813 x 2032mm single solid core flush panel masonite door	D0FSF1 - 2400 x 900 mm
FRAME	Aluminium frame to suit door and shopfront. Complete with 1.5 pairs aluminium sinkless hinges	Double rebated galvanised mild steel frame to suit wall. Finish - primed and painted	Aluminium frame to suit door and shopfront. Complete with 1.5 pairs aluminium sinkless hinges
GLAZING	Single glazed 6.38mm laminated safety glass	N/A	Single glazed 6.38mm laminated safety glass
FINISH	Powder coated aluminium, Interpon Class 1 D1025 Matt Charcoal LLP258P	Primed and painted	Powder coated aluminium, Interpon Class 1 D1025 Matt Charcoal LLP258P
NOTES	Refer to ironmongery schedules Frame to allow for roller catch	Refer to ironmongery schedules Frame to allow for roller catch	Refer to ironmongery schedules Frame to allow for roller catch
LOCATION	New Finance Office	New Finance Office Strong Room	New Finance Office



Owner/Client: MANGOSUTHU UNIVERSITY OF TECHNOLOGY

Owner/Client Signature:

Arch. Signature: KP MAWESANA

Arch. Council no.: PRArch 7902



Project Title:  
PLAN NO.0174.12.13 STUDENT CENTRE FOR MANGOSUTHU UNIVERSITY OF TECHNOLOGY ON (ERF 13 OF UMLAZI S SECTION)

301 GRIFITHS MAXENSE HIGHWAY  
UMHLOBOZI  
DURBAN  
4001

TENDER:  CONSTRUCTION:  SUBMISSION:   
APPROVAL:  INFORMATION:  DATE: 2020/01/27  
date: 2024/10/11 08:27:05 scale: As indicated  
drawn: L.C.

Drawing Description:  
Tender Drawing  
New Finance Office (Old MUT Radio Station)

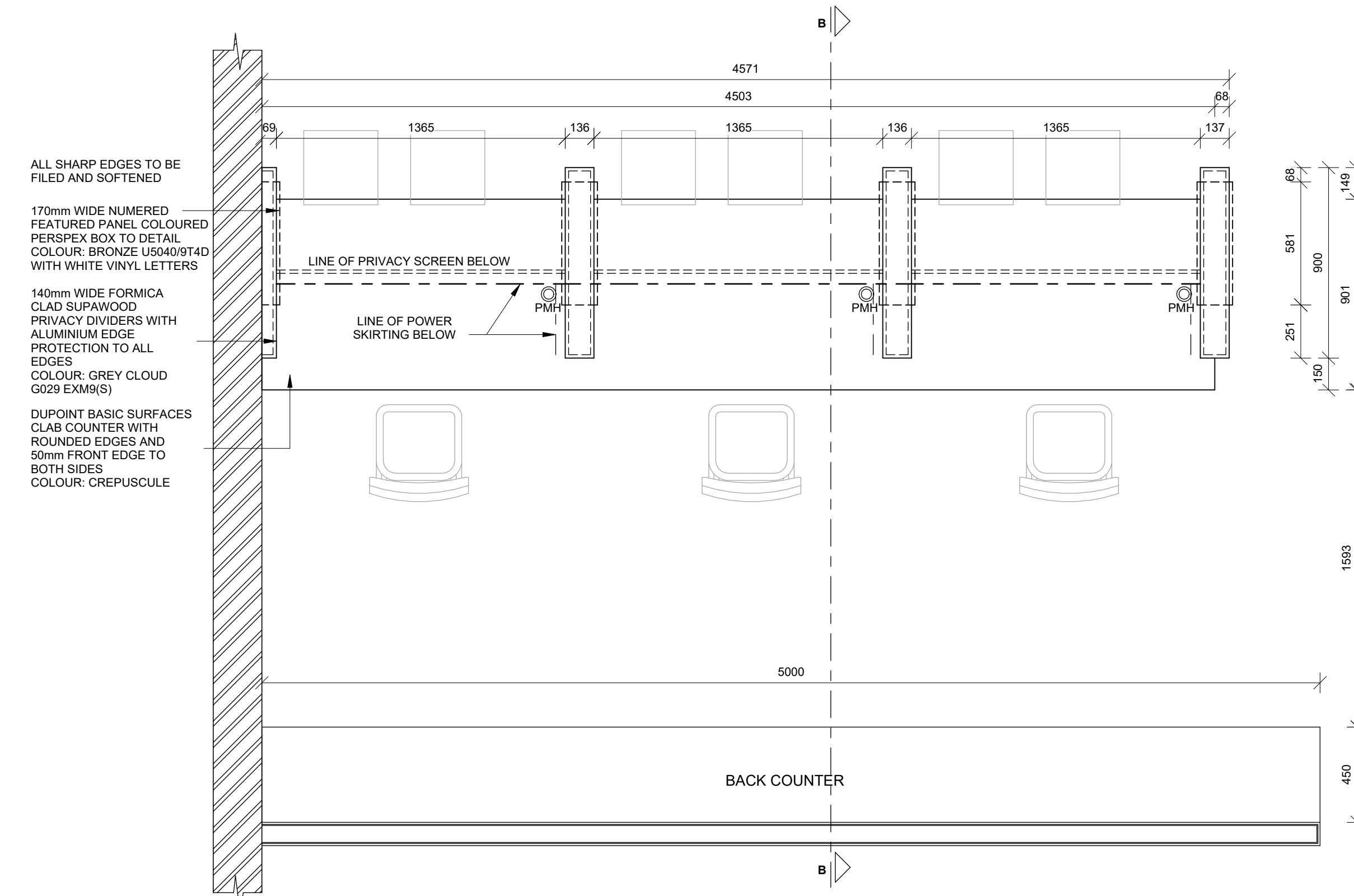
Job No.	Drawing No.	Rev.
S-325.1	CD-FIN-A101	



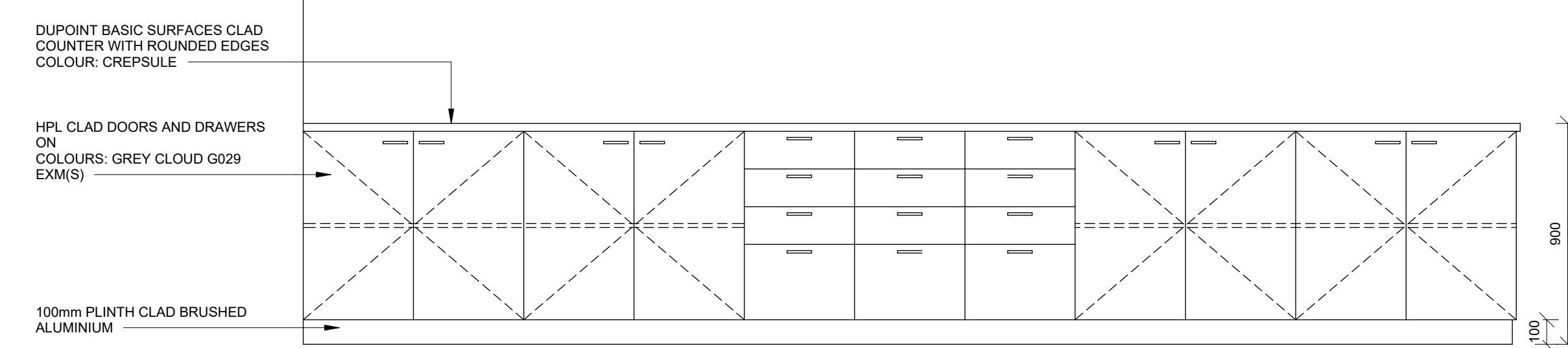
JOINERY DETAILS

GENERAL DETAILS

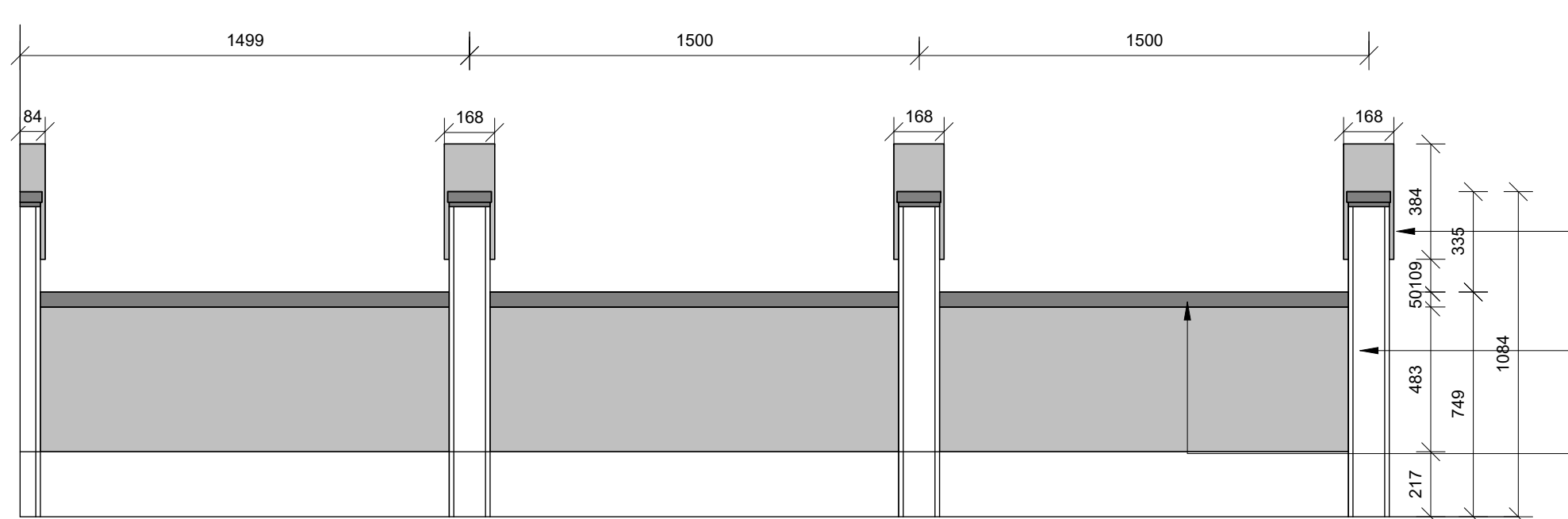
Private Consult Desk  
1 : 20



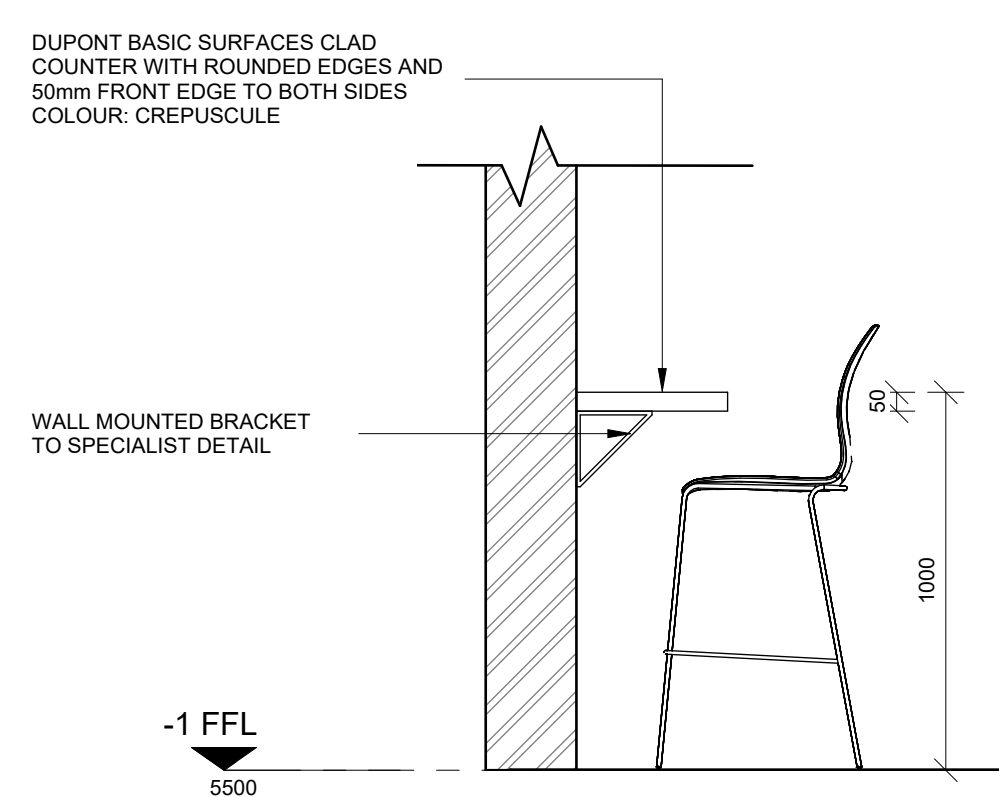
PLAN VIEW



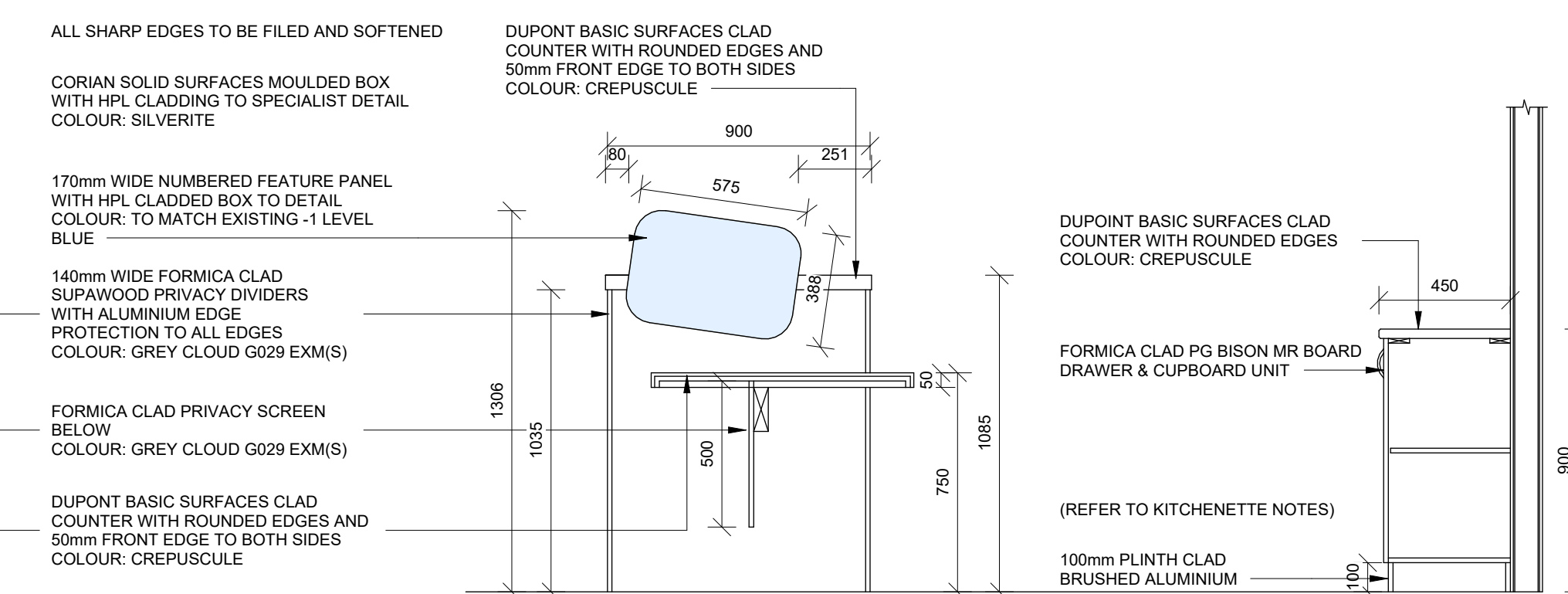
FRONT VIEW



FRONT VIEW

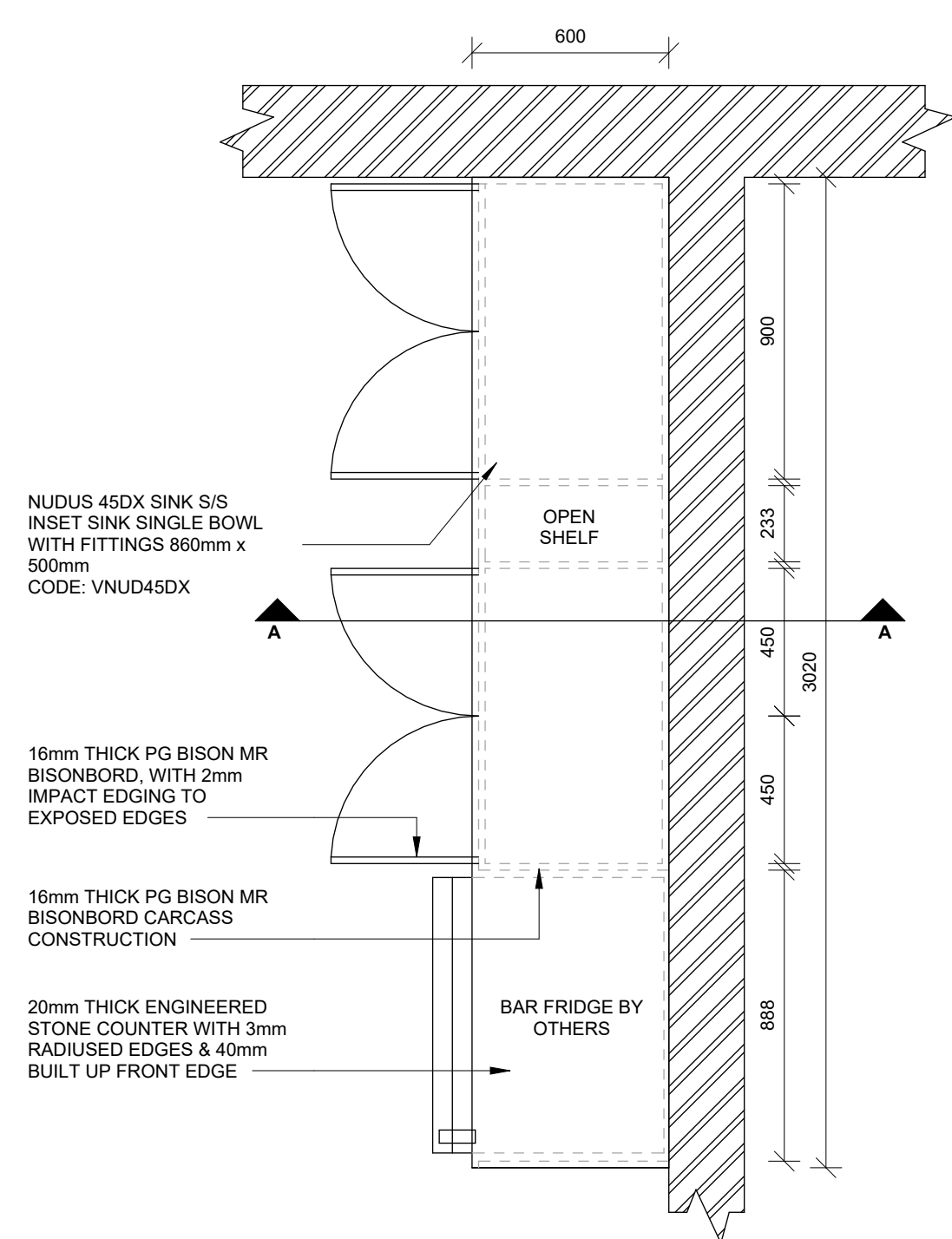


Staff Rest Counter  
1 : 20



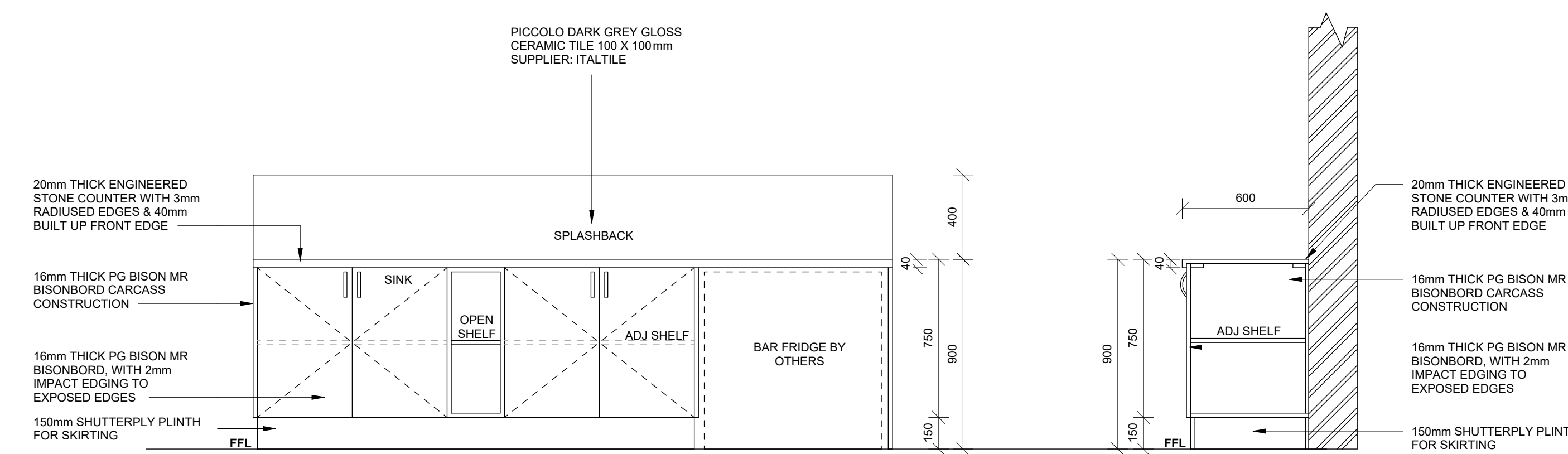
SECTION B-B

New Finance Office Kitchenette  
1 : 20



PLAN VIEW

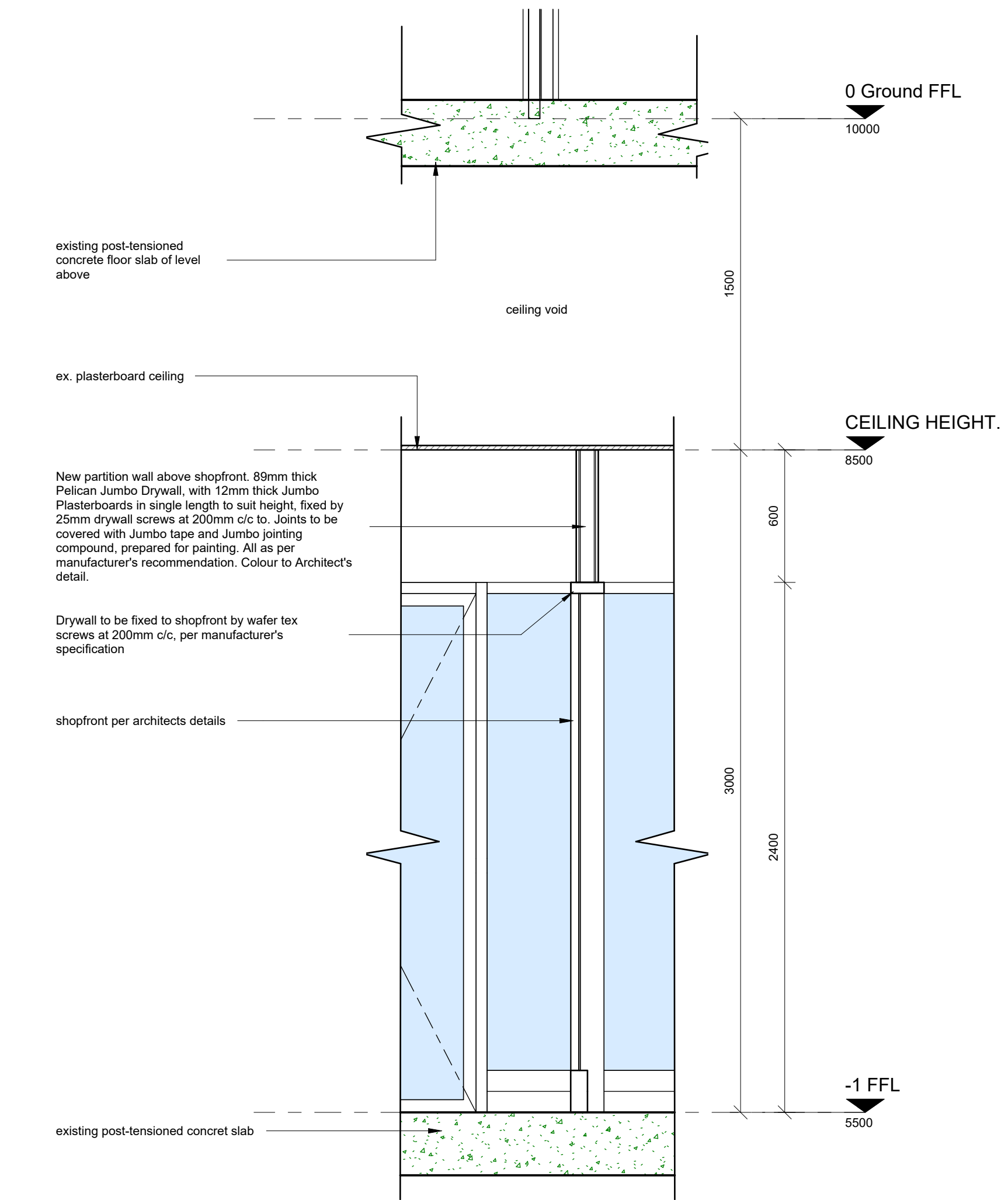
REFER TO SANITARY AND FIXTURES SCHEDULES FOR RELEVANT SPECIFICATIONS  
FRIDGE DIMENSIONS TO BE CONFIRMED PRIOR TO MANUFACTURE  
THIS DRAWING TO BE READ IN CONJUNCTION WITH FINISHES SCHEDULE



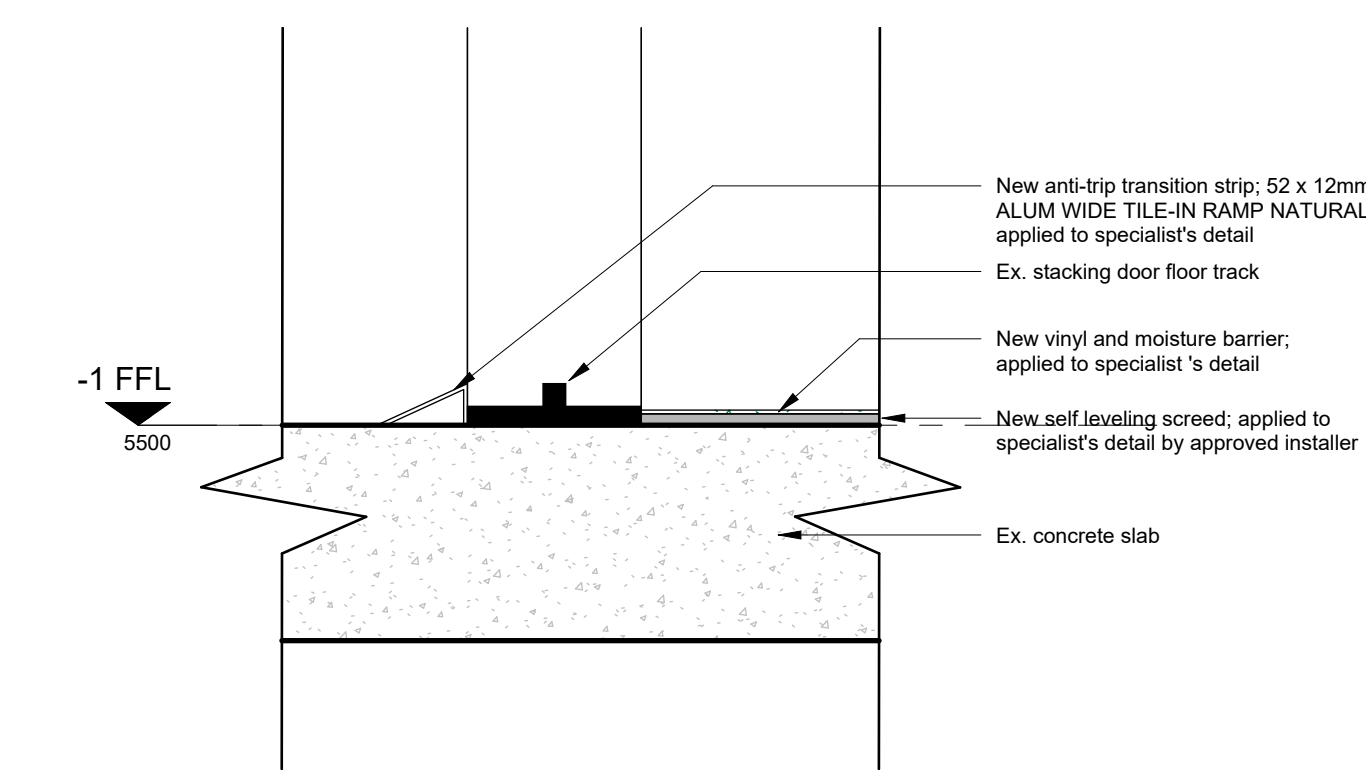
FRONT VIEW

SECTION A-A

Section 2b - Typical Partition Closer Panel over Shopfront  
1 : 20



Section 1b - Transition strip  
1 : 10



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REVISIONS

No.	Description	Date	By



Owner/Client: MANGOSUTHU UNIVERSITY OF TECHNOLOGY  
 Arch. Signature: KP MAWESANA  
 Arch. Council no.: PRArch 7902

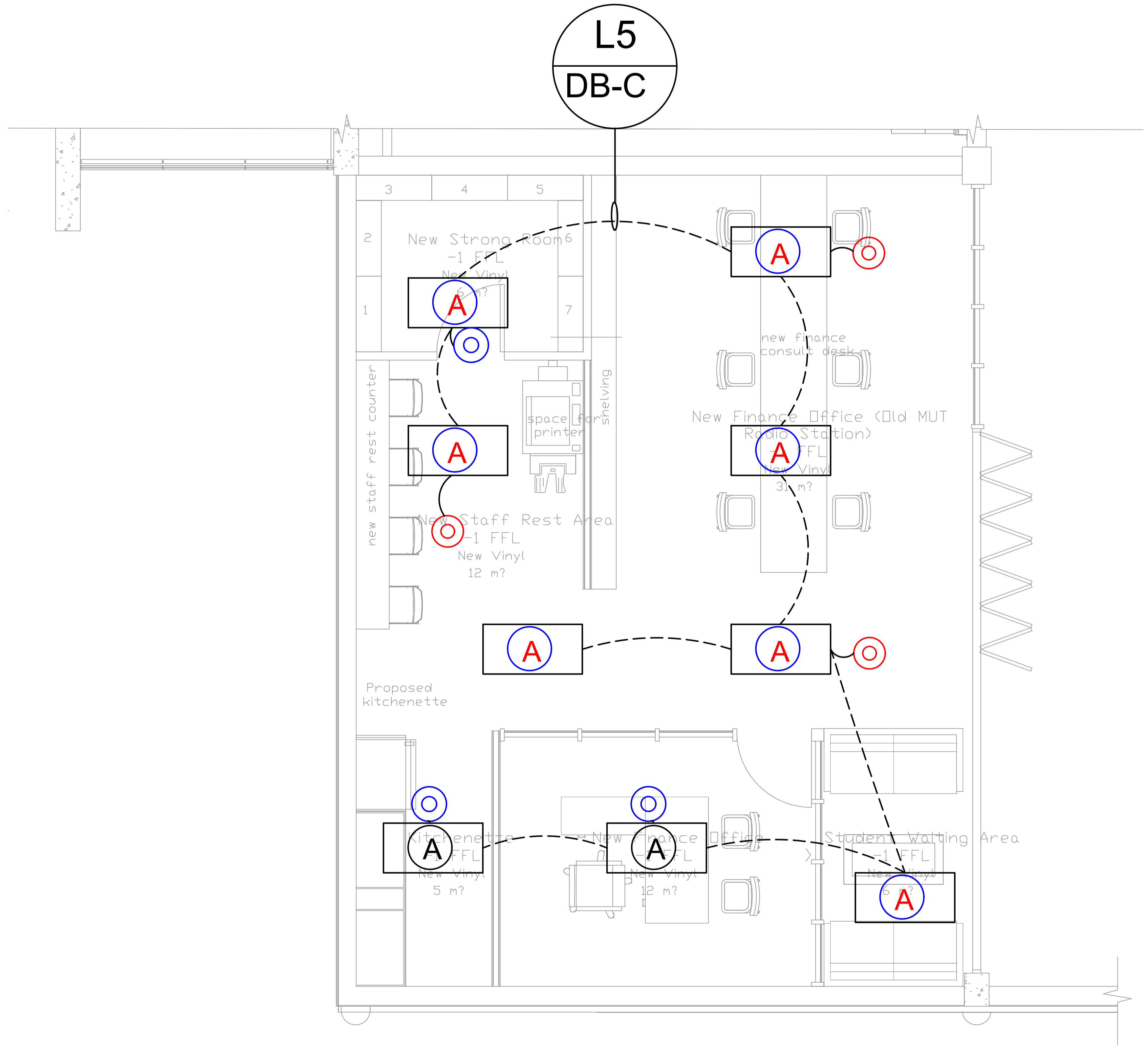


Project Title:  
 PLAN NO.0174.12.13 STUDENT CENTRE FOR MANGOSUTHU UNIVERSITY OF TECHNOLOGY ON (ERF 13 OF UMLAZI S SECTION)  
 301 GRFFITHS MAXENSE HIGHWAY UMLAZI DURBAN 4001

TENDER:  CONSTRUCTION  SUBMISSION  
 APPROVAL:  INFORMATION  DATE: 2020/01/27  
 date: 2024/10/10 15:51:24  
 drawn: L.C. K.N. scale: As indicated

Drawing Description:  
 Tender Drawing  
 New Finance Office (Old MUT Radio Station)

Job No.	Drawing No.	Rev.
S-325.1	CD-FIN-A102	



LEGEND

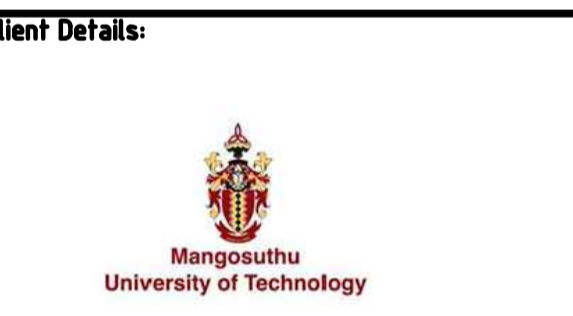
SYMBOL	DESCRIPTION
	Existing ASL Recessed backlit full LED panel, 500mA driver, 6800lm, body of glass fibre reinforced polyester with injection moulded lens with 240mm Sump plug & spiral filters for both surfaces & recessed grid. Spear 1370x172x115m 60W, A++ energy usage classification. As African Spear Lighting or Similar Approved.
	Relocated ASL Recessed backlit full LED panel, 500mA driver, 6800lm, body of glass fibre reinforced polyester with injection moulded lens with 240mm Sump plug & spiral filters for both surfaces & recessed grid. Spear 1370x172x115m 60W, A++ energy usage classification. As African Spear Lighting or Similar Approved.
	Existing light sensor
	Proposed / Relocated light sensor
	Existing Electrical distributed box

DRAWING REVISIONS

REV No	DESCRIPTION	DATE
00	Issued for Information	April 2024

- NOTES:
- ALL CONDUITS TO BE BUILT, CAST IN OR SURFACE RUN IN CEILING VOID.
  - ALL SSO, TELEPHONE AND DATA OUTLET BOXES TO BE RECESSED INTO WALL AND MOUNTED @ +300mm AFFL UNLESS OTHERWISE INDICATED.
  - PENETRATIONS THROUGH, OR CHASING INTO COLUMNS/SLABS/ BEAMS STRICTLY PROHIBITED UNLESS PERMISSION IS RECEIVED, IN WRITING, FROM THE STRUCTURAL ENGINEER.
  - CLEARANCE TO OTHER SERVICES TO BE CHECKED ON SITE.
  - CONDUIT PROVISIONS FOR ELECTRONIC SERVICES TO BE AS FOLLOWS:
    - DATA = 25mm Ø STEEL CONDUIT.
    - TELEPHONE = 20mm Ø STEEL CONDUIT.
    - 1.6 GALVANISED DRAW WIRE TO BE INSTALLED IN ALL ELECTRONIC SERVICE CONDUITS
  - OUTLET BOXES FOR ELECTRONIC SERVICES TO BE INSTALLED COMPLETE WITH BLANK COVER PLATES.

**Project Description:**  
Mangosuthu University of Technology Student Centre



**CONSULTANT**

SEKANKOE ENGINEERING  
16 SAMARA MACHEL STREET  
OFFICE BUILDING NO. 1  
MIDDELBURG  
013 240 0052

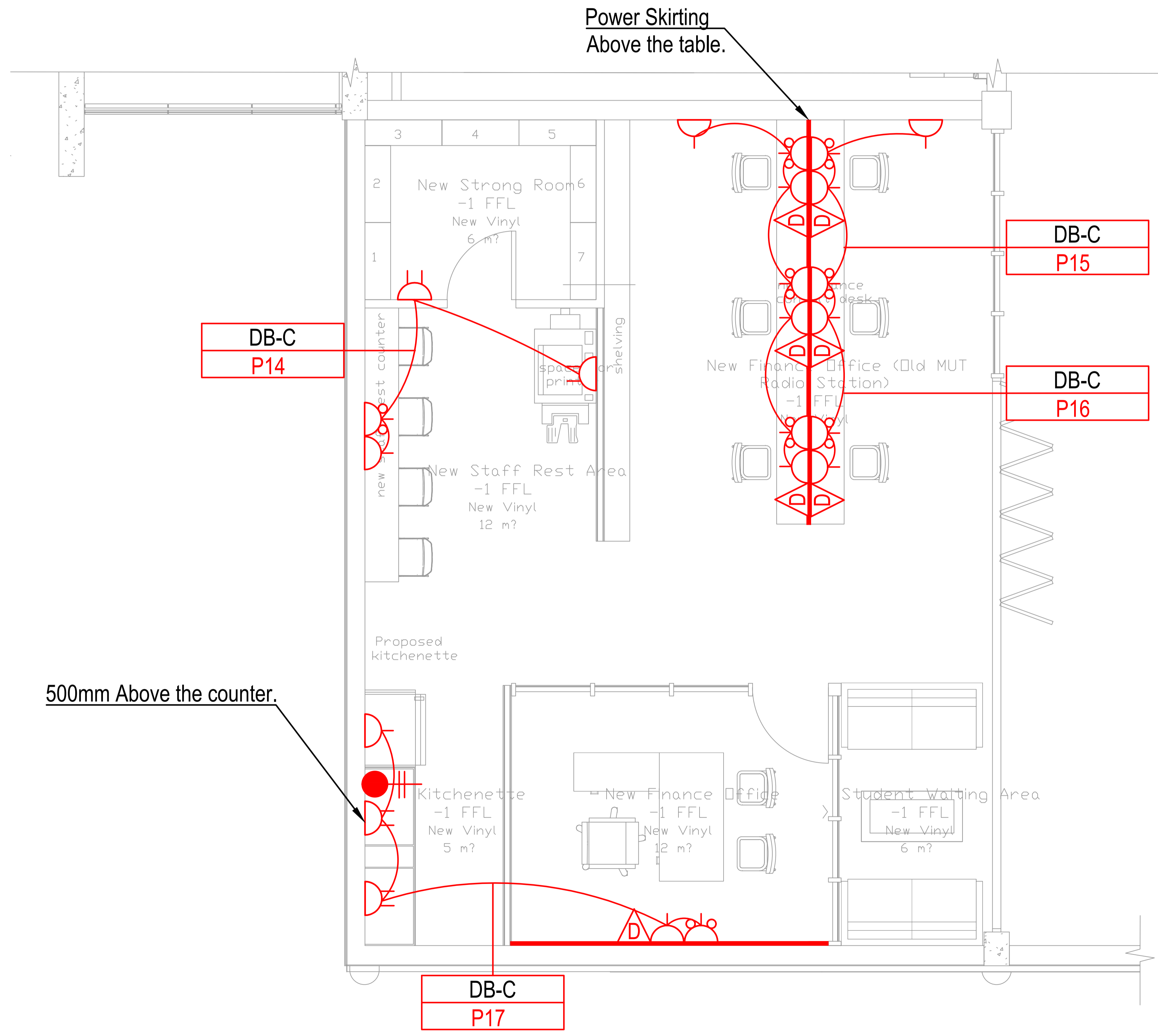
**Discipline:**  
ELECTRICAL

**Project Address:**  
MANGOSUTHU UNIVERSITY OF TECHNOLOGY  
301 Griffiths Mxenge Highway, Durban, 4066

**Drawing Title:**  
New finance office Lights Layout

Ref.no	Designed
Scale	Drawn
Date	Checked
Approved	Approved
Type Number	Sheet
Drawing Number	Rev
MSC/ELE/LL/016/00/1	16 of 21
	00
	A1





**LEGEND:**

	PROPOSED SINGLE NORMAL SWITCHED SOCKET OUTLET, RECESSED MOUNTED @900mm AFFL UNLESS NOTED OTHERWISE, OR MOUNTED ON POWERSKIRTING
	EXISTING 16A 3PIN SINGLE SWITCHED SOCKET OUTLET MOUNTED AT 300mm AFFL OR AS INDICATED OTHERWISE
	EXISTING 16A EXISTING DEDICATED SSO ON POWER SKIRTING
	PROPOSED 16A NEW DEDICATED SSO ON POWER SKIRTING
	PROPOSED DATA OUTLET - 100mm X 100mm WALL BOX WITH 1 X 25mm CONDUIT TO DATA DUCT
	PROPOSED DOUBLE NORMAL SWITCHED SOCKET OUTLET, RECESSED MOUNTED @900mm AFFL UNLESS NOTED OTHERWISE
	PROPOSED EURO PLUG SOCKET
	EXISTING DATA OUTLET - 100mm X 100mm WALL BOX WITH 1 X 25mm CONDUIT TO DATA DUCT
	PROPOSED 30A ISOLATOR FOR TURNSTILE MOUNTED AT 2000mm HEIGHT
	PROPOSED 20A ISOLATOR FOR HAND DRIVER
	EXISTING 32A, 3 PHASE EXISTING ISOLATOR FOR AIRCON
	EXISTING DISTRIBUTION BOARD
	EXISTING 2 COMPARTMENT POWER SKIRTING
	PROPOSED 2 COMPARTMENT POWER SKIRTING
	EXISTING CIRCUIT
	PROPOSED CIRCUIT
	20 x 10mm Heavy duty floor wiring cover trunking

**DRAWING REVISIONS**

REV No	DESCRIPTION	DATE
00	Issued for Information	April 2024

**GENERAL NOTES**

- DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECT'S DRAWINGS AND ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY.
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- NO PART OF THIS DRAWING MAY BE SCALED.

**Project Description:**  
Mangosuthu University of Technology Student Centre



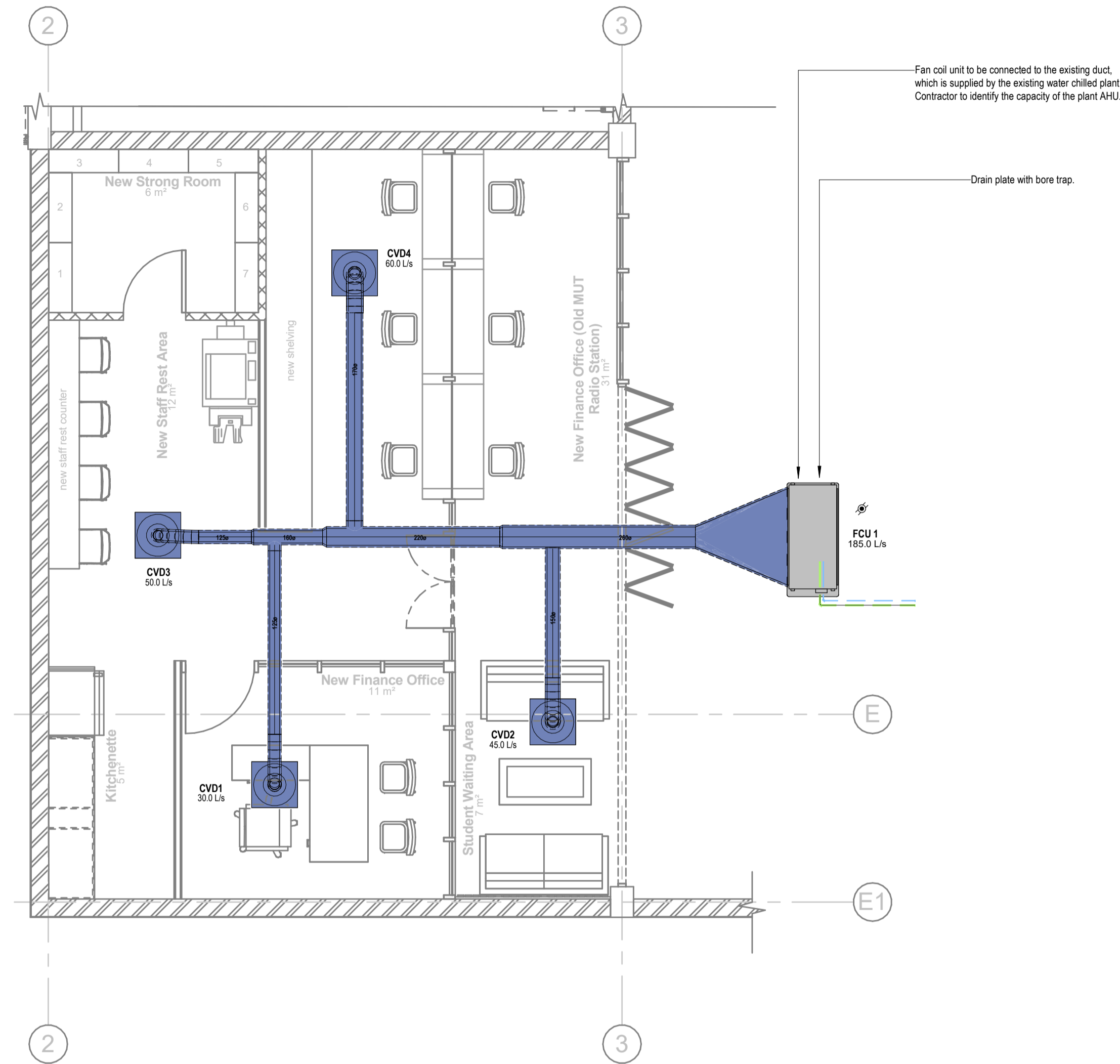
**CONSULTANT**  
SEKANKOE ENGINEERING  
10 SAMARA MACHEL STREET  
OFFICE BUILDING NO. 1  
MIDDELBURG  
013 240 0052

**Discipline:**  
ELECTRICAL

**Project Address:**  
MANGOSUTHU UNIVERSITY OF TECHNOLOGY  
301 Griffiths Mxenge Highway, Durban, 4066

**Drawing Title:**  
New finance office Power Layout

Ref.no	Designed
Scale	Drawn
Date	Checked
Type Number	Approved
Drawing Number	Sheet
MSC/ELE/PL/015/00/1	15 of 21
	Rev
	00
	Size
	A1



**Standard Notes:**

1. All exhaust air ducting to be un-insulated unless otherwise stated.
2. Duct sizes shown are internal sizes.
3. For duct treatment refer to specification.
4. All ducting to be manufactured & installed in accordance with SANS 10142-1
5. All A/C shafts to be fitted with a mentis grid platform on all floors including airtight access door unless otherwise stated.
6. All exposed ducting to be painted to an approved colour, unless otherwise stated.
7. For location of valves, instrumentation, etc refer to SICO drawings & water schematic drawing.
8. All take-offs from supply & exhaust air ducting to have 45° boots.
9. A/C equipment to be fitted with anti-vibration mountings as per the specification.
10. HVAC (sub)contractor to ensure that all condensate drains are trapped and sloped adequately. All drains to be tested for leaks and operation.
11. All ducting to be flat on top, unless otherwise stated.
12. HVAC (sub)contractor shall be responsible for connecting the condensate drains to the drain stack. The connection must be an inverted solid connection to prevent leakage, unless otherwise stated.
13. All refrigerant piping, electrical and control wiring between indoor and outdoor split type units shall run in trunking with cover plate / Wire basket / tray and adequately strapped.
14. All supply air ducting to be externally insulated & treated as per specification, unless otherwise stated.
15. All BMS wiring shall be installed in PVC / galvanised conduit by the BMS (sub)contractor, unless otherwise stated.
16. All supply air flexible's to be of the insulated acoustic type.
17. All chilled / hot water pipes to be treated as per specification.
18. All fans to have inlet /outlet cones complete with wire mesh screen where not directly connected to ducting.
19. All pipes to be colour coded as per specification.
20. All diffusers/grilles/louvres "finish" to be approved by the architect.
21. All exposed chilled water pipes to be insulated, vapour sealed and clad, as per specification.
22. Auto air vents to be provided in pipe runs where required.
23. Drain points with ball valves, plugged must be provided at bottom of each chilled water riser and at lowest point in plant room.
24. All equipment selected must fit into plant room provided.
25. Sufficient space for adequate maintenance must be allowed for around equipment.

HVAC LEGEND	
	Constant Square Diffuser
	Fire Damper
	Hideaway unit
	Three Phase Isolator
	Refrigerant Pipe : Liquid (Copper)
	Refrigerant Pipe : Gas (Copper)
	Supply Air Duct Insulated Externally

NOTE:  
ABBREVIATIONS  
CSD - CONSTANT SQUARE DIFFUSER  
FD - FIRE DAMPER  
AC01 - HIDE AWAY UNIT

**FINANCE UNIT FLOOR HVAC LAYOUT**

1 : 50

**FINANCE UNIT FLOOR PLAN - AIR TERMINALS SCHEDULE**

Code	Description	Air Flow l/s	Inlet Diameter	Width	Height	Quantity	Notes
CVD1	Constant Square Diffuser	30.0 L/s	130	600	600	1	
CVD2	Constant Square Diffuser	45.0 L/s	130	600	600	1	
CVD3	Constant Square Diffuser	50.0 L/s	130	600	600	1	
CVD4	Constant Square Diffuser	60.0 L/s	130	600	600	1	

**FINANCE UNIT FLOOR PLAN - MECHANICAL EQUIPMENT SCHEDULE**

Code	Description	Cooling Capacity	Heating Capacity	Air Flow	Height	Width	Depth	Weight	Power Requirement(kW)	Power (V-Ph-Hz)	Quantity	Notes
FCU 1	Hideaway	14.30 kW	15.20 kW	185.0 L/s	450	1485	675	105.00 kg	5.13 kW	230/1/50	1	

DRAWING ISSUED FOR

INFORMATION

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CLIENT



CONSULTANT



UNIT A3, CENTURION CLOSE  
119 GERHARD STREET  
CENTURION  
0157  
GAUTENG, SOUTH AFRICA  
Reg no: 203/056655/23

TEL: 012 664 6577  
FAX: 012 664 4875  
Email: mail@muteo.co.za  
Website: www.muteo.co.za

APPROVED BY	M.M
DESIGNED BY	M.M
DRAWN BY	M.S
DATE	2024.10.04
ECSA	

SIGNATURE

Project

MUT STUDENT CENTRE

SCALE As indicated SHEET SIZE A1

DRAWING NUMBER  
ME-401-HVAC-

Discipline

MECHANICAL ENGINEERING

Description

FINANCE UNIT FLOOR HVAC LAYOUT

Rev	Date	by	Description
A	2024.10.04	MS	Issued For Information

Revision Schedule