



Ehlanzeni TVET College

BILL OF QUANTITIES

FOR A

PROPOSED RENOVATION OF THE
DEFY BUILDING AT TVET
BARBERTON CAMPUS, 3074
GENERAL STREET, 1300

FOR

EHLANZENI TVET COLLEGE

Brought Forward

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Supplementary preambles are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles

The **contractor's** prices for all items throughout these **bills of quantities** must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles

PRICING OF PRELIMINARIES

Should the **contractor** select Option A in terms of subclause 3.2.1 in the **Contract Data - Contractor to Employer** (CE) for the purpose of adjustment of these **preliminaries**, the amount entered into the amount column in these **preliminaries** is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries

Brought Forward

R

SECTION A: PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

- 1 Clause 1.0 - Definitions and interpretation

The measuring system used for the preparation of the **bills of quantities** is the Standard System of Measuring Building Work (seventh edition, revised 2015) published by the Association of South African Quantity Surveyors [1.1]

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

Item

Objective and preparation (A2 - A14)

- 2 Clause 2.0 - Offer acceptance and performance obligations

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

Item

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries

	Brought Forward		R
3	Clause 3.0 - Documents <i>Refer to the contract drawings</i> Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) [3.5] The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9] Notwithstanding this or any other Clause, Clause 3.1 is amended by deletion of the clause in total and the Clause to read: "The Employer will not provide a Payment Guarantee." Notwithstanding this or any other Clause, Clause 3.3 is amended by adding: "The Employer requires the contractor to waive his lien without in turn receiving a Payment Guarantee from the Employer. If it is in favour of a financial institution, then the Waiver of Lien should be in favour of both the Client and the financial institution. The Contractor may also be requested to complete a Lien in the format required by the financial institution." F:..... V:..... T:.....		
		Item	
4	Clause 4.0 - Design responsibility Notwithstanding the provisions of Clause 4.2, the Contractor shall ensure that every nominated or selected sub-contractor shall simultaneously with the signing of the relevant nominated or selected sub-contractor sign and deliver to the employer a Design Materials and Workmanship Warranty and Undertaking in favour of the employer or a Materials and Workmanship Undertaking strictly in accordance with the instructions or provisions contained in the tender documents for the nominated or selected sub-contract works F:..... V:..... T:.....		
		Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries		

	Brought Forward		R
5	Clause 5.0 - Employer's agents The principal agent shall: - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process F:..... V:..... T:.....	Item	
6	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries		

Brought Forward		R
7	Clause 7.0 - Compliance with laws and regulations Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works 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 reasonable provisions of the aforementioned health and safety specification [7.1] F:..... V:..... T:.....	Item
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item
9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item
10	Clause 10.0 - General insurances F:..... V:..... T:.....	Item
11	Clause 11.0 - Special insurances F:..... V:..... T:.....	Item
12	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item
13	Clause 13.0 - Assignment The Contractor shall not cede his rights or delegate his obligations in terms of this agreement, unless specifically called for by the employer. F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries		

	Brought Forward		R	
14	Clause 14.0 - Security F:..... V:..... T:..... <u>Execution (A15 - A23)</u>	Item		
15	Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item		
16	Clause 16.0 - Site and access Access to the site must be arrange with the campus manager. The site must be fully enclosed to keep unauthorized people out of the site. Contractor has to take the level of noise into consideration when construction commences during teaching activities. F:..... V:..... T:.....	Item		
17	Clause 17.0 - Contract instructions F:..... V:..... T:.....	Item		
18	Clause 18.0 -Setting out of the works The contractor shall notify the principal agent if any encroachment of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments [18.1] F:..... V:..... T:.....	Item		
19	Clause 19.0 - Temporary works and plant Clause 19.1.1 - Enclosure of the works F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

Brought Forward			R
20	Clause 19.1.2 - Office accommodation - provide suitable office accommodation for site meetings with tables and chairs for ten people F:..... V:..... T:.....	Item	
21	Clause 19.1.3 - The contractor shall ensure, where required, that the works are sealed off with temporary hoarding from neighbouring areas, keeping doors closed at all times. The contractor is to provide and remove up on completion any temporary hoarding etc. used to protect existing premisses and equipment. The hoarding shall be maintained and kept clean for the duration of use.	Item	
22	Clause 20.0 - Nominated subcontractors Refer to the provisions on general attendance hereinafter F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries			

R

General attendance of **n/s subcontractors** for pricing by the **contractor** shall be in accordance with the **n/s agreement**. Notwithstanding this provision, general attendance shall be deemed to include for the **contractor** to provide free of charge to any **n/s subcontractor** such scaffolding as may reasonably be required by such **n/s subcontractor** for the execution of the relevant subcontract work

Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted

F: V:
T:

Item

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-9-

	Brought Forward		R
24	Clause 22.0 - Employer's direct contractors The employer shall have the right to employ other direct contractors to execute any special works not contained in this contract, concurrently with the work being executed under this contract and the contractor shall not be entitled to any percentage profit or discount on the value thereof. The contractor shall allow these direct contractors to have access to the works and shall allocate reasonable space in the building for the storage of their materials, tools and equipment, all to the satisfaction of the principal agent. The contractor shall also allow the direct contractors to use, free of charge, scaffolding, the latrine accommodation, water and power supply on site, and shall not in any way hinder or prevent the execution of their work. The contractor is to allow for any costs in connection with providing access for such concurrent contracts and for the use of the facilities stated above and no additional claim will be entertained due to the presence on the works of such direct contractors. F:..... V:..... T:.....	Item	
25	Clause 23.0 - Contractor's domestic subcontractors The Contractor is referred to the Specific Preliminaries below for the mandatory Sub-Contracting requirements of this contracts F:..... V:..... T:..... <u>Completion (A24 - A30)</u>	Item	
26	Clause 24.0 - Practical completion Notwithstanding the provisions of this Clause, Clause 24 is amended by adding the following: The fact that the tenants has occupied the building does not necessarily mean that practical completion has occurred. The Practical Completion certificate will not be issued by the Principal Agent until such time as the following items are complete: - Improvements completed, including all external and internal finishes		
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries		

R

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Item

F: V:
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-11-

	Brought Forward		R
31	Clause 29.0 - Revision of date for practical completion Sub clause 29.1.1 is hereby added onto by the following: "Exceptionally inclement weather, which shall only relate to weather with a degree of inclement which is materially greater than or is materially beyond the average inclemency experienced in past years and/or recorded, in terms of available records or otherwise, at or for the area in which the site is situated, for the period(s) in question. Any revision of date for practical completion which may, in terms of this clause be allowed for exceptionally inclement weather, shall be related only to those periods of exceptionally inclement weather by which the average periods of time, during which exceptionally inclement weather is experienced and/or recorded in the area in which the site is situated, is exceeded. The Contractor is therefore to make allowance for normal variances of the weather." Extension of time shall only be considered when work is on the critical path of the contract programme, which the contractor shall clearly identify, for the works affected. Any delays to minor portions of the works will only attract extensions of time to those areas and not the entire project The removal and replacement of materials and/or workmanship which do not conform to specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3) F:..... V:..... T:.....	Item	
32	Clause 30.0 - Penalty for late or non-completion F:..... V:..... T:..... <u>Payment (A31 - A35)</u>	Item	
33	Clause 31.0 - Interim payment Materials and goods stored off site shall not be included in the amount authorised for payment [31.6.5] F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries		

	Brought Forward		R
34	Clause 32.0 - Adjustment to the contract value All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [32.13] Where prices are submitted by the contractor or n/s subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the agreement and notwithstanding the fact that such prices may be used in an interim payment certificate there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing The contractor shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims for loss of profit shall not be entertained Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing [32.2] F:..... V:..... T:.....	N/A	
35	Clause 33.0 - Recovery of expense and loss F:..... V:..... T:.....	Item	
36	Clause 34.0 - Final account and final payment F:..... V:..... T:.....	Item	
37	Clause 34.10 - Is amended by the deletion of "with in seven (7) calender days" in the first sentence and replacing with "within thirty (30) calender days".	Item	
38	Clause 34.11 - Is amended by the substitution of the words "practical completion", in the fourth line by the words, "Final completion".	Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries		

Brought Forward			R
39	Clause 34.13 - Is amended by the deletion of "within twenty one (21) calender days" in the second sentence and replacing with "within thirty (30) calender days".	Item	
40	Clause 35.0 - Payment to other parties F:..... V:..... T:.....	Item	
<u>Termination (A36 - A39)</u>			
41	Clause 36.0 - Termination by employer - contractor's default F:..... V:..... T:.....	Item	
42	Clause 37.0 - Termination by employer - loss and damage F:..... V:..... T:.....	Item	
43	Clause 38.0 - Termination by contractor - employer's default F:..... V:..... T:.....	Item	
44	Clause 39.0 - Termination - cessation of the works F:..... V:..... T:.....	Item	
<u>Dispute (A40)</u>			
45	Clause 40.0 - Settlement of disputes F:..... V:..... T:.....	Item	
Section No. 1 Bill No. 1 Preliminaries			
Carried Forward			R

R

Item	Value
1. The first step in the process of creating a new product is to identify a market need.	True
2. A product that is not profitable is not a viable product.	True
3. A product that is not profitable is not a viable product.	True
4. A product that is not profitable is not a viable product.	True
5. A product that is not profitable is not a viable product.	True
6. A product that is not profitable is not a viable product.	True
7. A product that is not profitable is not a viable product.	True
8. A product that is not profitable is not a viable product.	True
9. A product that is not profitable is not a viable product.	True
10. A product that is not profitable is not a viable product.	True

Item

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Brought Forward		R	
<u>SECTION B: PRELIMINARIES</u>			
<u>Definitions and interpretation (B1)</u>			
48	Clause 1.0 - Definitions and interpretation The items in the Bill of Quantities are to be read and priced in conjunction with and the description regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, and no claim arising from brevity of description of items fully described in the said documents will be entertained F:..... V:..... T:.....	Item	
<u>Documents (B2)</u>			
49	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item	
50	Clause 2.2 - Provisional bills of quantities F:..... V:..... T:.....	Item	
51	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:.....	Item	
<u>Previous work and adjoining properties (B3)</u>			
52	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
53	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
Carried Forward		R	
Section No. 1 Bill No. 1 Preliminaries			

	Brought Forward		R	
54	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:..... <u>Samples, shop drawings and manufacturer's instructions (B4)</u>	Item		
55	Clause 4.1 - Samples of materials F:..... V:..... T:..... The principal agent may reject any materials or colours not corresponding with the approved samples. The approved samples shall be kept on site until completion of works. Should any materials or items specified prove to be either unavailable, in poor supply or likely to cause delay to the works the contractor shall notify the principal agent in sufficient time for suitable alternatives to be considered. Any claims for delays resulting from the contractor not conforming with the terms of this clause will not be entertained or allowed.	Item		
56	Clause 4.2 - Workmanship samples F:..... V:..... T:.....	Item		
57	Clause 4.3 - Shop drawings F:..... V:..... T:.....	Item		
58	Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:..... <u>Deposits and fees (B5)</u>	Item		
59	Clause 5.1 - Deposits and fees F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

	Brought Forward		R	
	<u>Temporary services (B6)</u>			
60	Clause 6.1 - Water F:..... V:..... T:.....	Item		
61	Clause 6.2 - Electricity F:..... V:..... T:.....	Item		
62	Clause 6.3 - Telecommunication facilities F:..... V:..... T:.....	Item		
63	Clause 6.4 - Ablution facilities F:..... V:..... T:.....	Item		
64	Additional Clause 6.5 - Office Accommodation The contractor to provide standard office accomodation on site to house 12 persons to be used by the professional team for site meetings and site works. F:..... V:..... T:.....	Item		
65	Additional Clause 6.6 - Advertising rights and notice The contractor to erect a main notice board according to the Architect's specifications (3000mm wide x 3000mm High) and local municipality regulations. Existing signboard (Employers) is to be kept displayed on site and maintained. The successful main contractor may alter the position of the signage (to be approved by the principal agent) at his own costs. F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

	Brought Forward		R	
	<u>Prime cost amounts (B7)</u>			
66	Clause 7.1 - Responsibility for prime cost amounts Clause 7.1 is amended by the omission of "hoisting and fixing" in the second sentence and replacing with "hoisting, wastage and fixing." Clause 7.1 is further amended by deletion of "The contract documents shall make provision for the contractor to separately price" in the second sentence and replacing with "The contractor shall include in the rate for the item". The client reserves the right to omit the PC amount and the associated waste factor in totality and supply the contractor with these items on site in which case only the extra over amount shall be used for installation including all associated cost and profit. F:..... V:..... T:.....	Item		
	<u>Special attendance on n/s subcontractors (B8)</u>			
67	Clause 8.1 - Special attendance F:..... V:..... T:.....	Item		
	<u>General (B9)</u>			
68	Clause 9.1 - Protection of the works F:..... V:..... T:.....	Item		
69	Clause 9.2 - Protection/isolation of existing/ occupied works F:..... V:..... T:.....	Item		
70	Clause 9.3 - Security of the works F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

	Brought Forward		R
71	Clause 9.4 - Notice before covering work F:..... V:..... T:.....	Item	
72	Clause 9.5 - Disturbance F:..... V:..... T:.....	Item	
73	Clause 9.6 - Environmental disturbance F:..... V:..... T:.....	Item	
74	Clause 9.7 - Works cleaning and clearing Great emphasis will be placed upon orderliness and cleanliness of the site during construction and finishing of the project and the contractor shall ensure that this condition is met by himself and all of his subcontractors at all times. F:..... V:..... T:.....	Item	
75	Clause 9.8 - Vermin F:..... V:..... T:.....	Item	
76	Caluse 9.9 - Overhand work F:..... V:..... T:.....	Item	
	<u>Schedule of variables (B10)</u> Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract 10.1 - Provisional bills of quantities [2.2] The quantities are provisional Yes 10.2 - Availability of construction documentation [2.3] Construction documentation is complete No		
	Carried Forward		R
	Section No. 1 Bill No. 1 Preliminaries		

Brought Forward		R
10.3 - Previous work - dimensional accuracy [3.1]		
10.4 - Previous work - defects [3.2]		
10.5 - Inspection of adjoining properties [3.3]		
The contractor must inspect the existing buildings adjoining and report in writing, so no claims can be made by the client to the contractor of damages to existing structures.		
10.6 - Water [7.2]		
Option A (by contractor)	Yes	
Option B (by employer - free of charge)	No	
Option C (by employer - metered)	No	
10.7 - Electricity [7.3]		
Option A (by contractor)	Yes	
Option B (by employer - free of charge)	No	
Option C (by employer - metered)	No	
10.8 - Telecommunications [7.4]		
Telephone (At contractors office and on site)	Yes	
Facsimile (At contractors office and on site)	Yes	
E-mail (At contractors office and on site)	Yes	
10.9 - Ablution facilities [7.5]		
Option A (by contractor)	Yes	
Only approved chemical toilets will be allowed.		
Option B (by employer)	No	
10.10 - Protection of the works [9.1]		
All existing and new		
10.11 - Protection/isolation of existing/sectionally occupied works [9.2]		
Protection/isolation is required	Yes	
Carried Forward		R
Section No. 1		
Bill No. 1		
Preliminaries		

Brought Forward

R

10.12 - Disturbance [9.5]

All noisy works to be kept to minimum.

10.13 - Environmental disturbance [9.6]

Removal of Asbestos structures/materials should be done in accordance with the latest Occupational Health and Safety Act, Asbestos Regulations.

ADDITIONAL VARIABLES

CONTRACTING AND OTHER PARTIES

1. Employer **Ehlanzeni TVET College**

Physical address **29 Bell Street, Nelspruit**

Code **1200**

Telephone **013 712 6640**

Fax

E-mail

jerry.zulu@ehlanzenicollege.co.za

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries

Brought Forward

R

CONTRACT DETAILS

8. Works description

In general the works comprise of the following:

Renovation of the Defy Building in Barberton

9. Site description

Site is located at:

**Mpumalanga
TVET Barberton Campus
3074 General Street
1300**

GPS Coordinates

Latitude South : deg.S 25° 47' 7.602"

Longitude East : deg.E 31° 2' 54.692"

10. Work or installations by direct contractors:

Yes where applicable

11. This agreement is for a TVET College contract

No. ETVETC/BAR/DEFY/25

12. Possession of the site is intended to be given
on **To be confirmed in 2025**

13. Period for the commencement of the Works
after the Contractor takes possession of the site

Working days (7) Seven

14. Completion in sections of the works is required

No

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries

		Brought Forward			R
77	15.	Intended date of practical completion and the penalty per calendar day for : excluding builders and public holidays. Penalty: R 12 743.14 per calendar day An additional penalty for not achieving works completion as per clause 25.4 Penalty: R 5 540.00 per calendar day	Item		
	16.	Arbitration rules <i>(if applicable)</i> Arbitration rules as recommended by the relevant Association of Arbitrators.			
	17.	The law applicable to this agreement shall be that of South Africa			
	18.	Penalty for beneficial completion N/A			
		INSURANCES			
	19.	Contracts works insurance to be effected by: Contractor For the sum of: Contract Sum plus 20% With a deductible of: Maximum of R20 000-00 for any one occurrence			
	20.	Supplementary insurance is required SASRIA Yes			
		Carried Forward			R
		Section No. 1 Bill No. 1 Preliminaries			

Brought Forward 21. Public Liability Insurance to be effected by : Contractor For the sum of R 2 000 000-00 with the deductible of Max of R 20 000-00 DOCUMENTS 22. Waiver of the Contractor's lien or right of continuing possession is required. Yes, no Payment Guarantee will be implemented by the Employer 23. Construction document and drawings copies to be supplied to the Contractor free of charge. Number of 3 24. Bills of Quantities/Schedule of Rates drawn up in accordance with: Standard System of Measuring Building Work 2015/ Revised Seventh edition 25. JBCC Engineering General Conditions are to be included in the contract documents. No 26. The contract will be a fixed price contract. The Contractor to allow for his own escalation and include it in his priced rates Yes 27. Details of changes made to the provisions of JBCC standard documentation. <u>SECTION C: SPECIFIC PRELIMINARIES</u> Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included Carried Forward Section No. 1 Bill No. 1 Preliminaries	R	
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	Brought Forward		R	
78	Black economic empowerment and training F:..... V:..... T:.....	Item		
79	Proprietary branded products F:..... V:..... T:..... The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative	Item		
80	Contract instructions F:..... V:..... T:..... Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor Contract instructions to the contractor and his subcontractor may be issued only by the Principal Agent, Project Manager or his authorized representative and must be issued via the contractor . Copies of all contract instructions issued shall be submitted to the Principal Agent and the Quantity Surveyor or within 48 hours of issue all Contract Instructions demarcated having cost implications or an extension of time effect, must be signed by the Principal Agent or his authorized representative prior to the work being executed.	Item		
81	Labour record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

	Brought Forward		R	
82	Plant record F:..... V:..... T:..... 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 used on the works each day of that week	Item		
83	Guarantees F:..... V:..... T:..... Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement	Item		
84	Overtime F:..... V:..... T:..... Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

	Brought Forward		R	
85	Co-operation of contractor for cost management F:..... V:..... T:..... It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors	Item		
86	Occupational Health and Safety Specification F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

Brought Forward		R
The contractor shall comply with all the requirements set out in the Construction Regulations 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of parial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satifactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including extension of time or interest, due to such delay of payment. Provisions for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained. Contractor to comply with all required Occupational Health and Safety Specifications including Asbestos Act. Allow for the compulsory equipment and clothing, ie hats, safety shoes, safety clothing, safety glasses, safety masks, harnesses, etc F:..... V:..... T:.....	Item	
Allow for all compulsory health and safety posters, boards, etc F:..... V:..... T:.....	Item	
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries		

	Brought Forward		R	
95	Principal Contractor's responsibility as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
96	Supervision of construction work as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
97	Risk assessment as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
98	Fall protection as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
99	Structures Formwork and Support as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
100	Excavation as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

	Brought Forward		R	
107	Batch plant as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
108	Explosive powered tools as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
109	Cranes as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
110	Construction vehicles and mobile plant as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
111	Electrical installations and machinery on construction sites as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
112	Use and temporary storage of flammable liquids on construction sites as per Act No 85 of 1993			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

	Brought Forward		R	
113	Water environments as per Act No 85 of 1993			
	F:..... V:.....			
	T:.....	Item		
114	Housekeeping on construction sites as per Act No 85 of 1993			
	F:..... V:.....			
	T:.....	Item		
115	Stacking and storage on construction sites as per Act No 85 of 1993			
	F:..... V:.....			
	T:.....	Item		
116	Fire precautions as per Act No 85 of 1993			
	F:..... V:.....			
	T:.....	Item		
117	Construction welfare as per Act No 85 of 1993			
	F:..... V:.....			
	T:.....	Item		
118	Approved inspection Authorities as per Act No 85 of 1993			
	F:..... V:.....			
	T:.....	Item		
	Carried Forward		R	
	Section No. 1			
	Bill No. 1			
	Preliminaries			

	Brought Forward		R	
119	Offences and penalties as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
120	Repeal of regulations as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
121	Short title as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
122	Obligatory Sub-contracting and Training F:..... V:..... T:..... The Principal Agent and the Contractor shall at all times make sure that the work complies with the relevant specifications, standards and norms as contained in this tender. The Principal Agent and the Contractor shall provide for the necessary skills transfer and assistance to complete the sub-contracted section of the works. The Principal Agent and the Contractor shall provide the necessary documentation to the Domestic Sub-Contractor for upgrading of the rating by CIDB.	Item		
123	Expanded Public Works Programme F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

	Brought Forward		R	
	The Contractor shall study the guidelines for the implementation of labour-intensive infrastructure projects under the Expanded Public Works Programme (EPWP) attached to this document. The Contractor shall take note of the requirements and inform all selected and or other sub-contractors, as no claim afterwards will be entertained			
124	C11.1 Local and targeted labour F:..... V:..... T:.....	Item		
125	Allow for regular submission of proof of employment of local skilled and unskilled labour to Employer's representative F:..... V:..... T:.....	Item		
126	Training allowance paid to targeted labour in respect of formal training. F:..... V:..... T:.....	Item		
127	Extra over for the administration of payment of training allowances to targeted labour F:..... V:..... T:.....	Item		
128	Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries			

Brought Forward			R
133	Provide the amount of R7,500.00/month (Seven Thousand Rand per month) for the appointment of a Community Liaison Officer F:..... V:..... T:.....	Mnths 12	
134	C16: SANS 1921-6: HIV/AIDS Awareness read in conjunction with the Associated Specification Data F:..... V:..... T:.....	Item	
135	General requirements (Clause 4.1) F:..... V:..... T:.....	Item	
136	HIV/AIDS awareness programme (Clause 4.2) F:..... V:..... T:.....	Item	
137	Reporting (Clause 4.3) F:..... V:..... T:.....	Item	
<u>SUMMARY OF CATEGORIES</u>			
Category : Fixed R.....			
Category : Value R.....			
Category : Time R.....			
Carried to Final Summary			R
Section No. 1 Bill No. 1 Preliminaries			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE: Contractors are advised to study the Model Preambles for Trades and PW371 ----- All Tenderers will be deemed to have visited the site prior to submitting their tender to determine the nature and extent of the alteration and demolition work and the value of the materials to be recovered. No claim for a variation in the credit allowance for recoverable materials in respect of demolition items will be considered. All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned. In taking down and removing existing work the utmost care must be taken to avoid any structural or other damage to the remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc to ensure the stability of all structures during the alteration/demolition work. The Contractor will be held solely responsible for the safety and stability of the buildings for the whole period of the contract and must make good any damage at his own expense. Existing services must be maintained at all times to the existing buildings. If it is found necessary to disconnect any service then suitable temporary or alternate services must be provided to the existing buildings. Special care shall be exercised during the progress of the work to ensure that any electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice must be given to the Principal agent if any disconnection or alterations become necessary. The Contractor shall cover up and protect from injury all work not removed and shall make good at his own expense any damage that may occur. Any water supply or other piping, etc that may be encountered and found necessary to disconnect or cut			
	Carried Forward		R	
	Section No. 2 Bill No. 1 Alterations			

Brought Forward are to be effectually stopped off and any new connections that may be necessary shall be made with the proper fittings to the satisfaction of the Principal Agent. Where sanitary fittings, geysers, etc are to be removed the Contractor shall allow for removing all exposed waste or water supply pipes to the nearest suitable junction or connection and stopping off, as well as for making good plaster, screeds, etc. Prices for the removal of concrete slabs, etc must include for removal of reinforcement, screeds, membrane waterproofing, conduits, etc. Prices for the removal of concrete surface beds, etc must include for removal of reinforcement, screeds, conduits, damp proof membrane, etc. The Contractor is to note that removal of the existing floor finishes such as vinyl, carpets, ceramic tiles, etc has been measured separately. Taking down existing walls is to include for skirtings, cornices, conduits, pipes, brick or concrete fins, lintels, etc built into the structure and for making good walls, floors, ceilings, etc as described. The Contractor is to note that items for the removal of joinery, etc such as shelves, pelmets, curtain rails, pinning boards, signage, etc has been measured separately. Removal of doors, windows, fittings, etc is to include for their removal complete with frames, ironmongery, glass, quadrants, architraves, skirtings, burglar bars and all accessories to walls, reveals, around openings, for cutting out cills, etc, for hacking up flooring at openings and for making good. Removal of sanitary fittings is to include for the removal and blocking off of service pipes, taps, traps, fixing brackets, cisterns, etc complete. Building up of existing openings where given in number shall be deemed to include preparing existing surfaces all round, brickwork properly toothed and bonded to existing and shot pinned to concrete, wedging up and unless otherwise stated making good finishes on both sides to match existing. Allow for watering the works sufficiently to prevent nuisance from dust. OLD MATERIALS TO BE CARTED AWAY: Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, rubble, debris etc., must be regularly carted from the site and not be allowed to accumulate on or		R
Carried Forward Section No. 2 Bill No. 1 Alterations		R

Brought Forward			R
around the site.			
OLD MATERIALS NOT TO BE RE-USED: None of the old materials are to be used for new work except where specifically described as being set aside for re-use. OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR: Old materials from alterations, except where described to be re-used or handed over, become the property of the Contractor who must allow credit for same in the Final Summary. HANDING OVER OF MATERIALS: Where certain materials or articles from demolitions or articles are described as to be handed over by the Contractor to the Regional Representative or Representative/Agent, such materials or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor. ----- <u>REMOVAL OF EXISTING WORK</u> <u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement</u>			
1	85mm Thick surface beds	m2	330
<u>Props to be erect and approved by the engineer before continuing with the demolition of concrete column below the floor slab. Props to be erected as per indication on engineers drawing no.002-6300-010</u>			
2	Columns	m3	1
<u>Demolish, remove and cart away brickwork etc</u>			
3	Half brick walls	m2	429
4	One brick walls	m2	61
Carried Forward			R
Section No. 2 Bill No. 1 Alterations			

Brought Forward			R
<u>Breaking down and removing brickwork etc and prepare surface to receive new doors and windows (New doors and windows measured elsewhere)</u>			
5	Break out opening in half brick wall	m2	20
6	Break out opening in one brick wall	m2	60
<u>Taking out and removing doors, windows, etc from brickwork to be demolished</u>			
7	Timber single door and frame not exceeding 2,5m2	No	32
<u>Taking out, remove and cart away doors, windows, etc and prepare surface to receive new (New doors and windows measured elsewhere)</u>			
8	Timber single door and frame not exceeding 2,5m2	No	2
9	Glazed steel window not exceeding 2,5m²	No	13
10	Glazed steel window exceeding 2,5m² and not exceeding 5m2	No	2
<u>Taking out and removing doors, windows, etc, including thresholds, sills, etc and building up openings in brick walls, including making good cement plaster on both sides (making good paintwork elsewhere)</u>			
11	Timber single door and frame not exceeding 2,5m2	No	2
12	4000 x 3230mm High Roller shutter doors with expanded metal security gates	No	2
<u>Removal of existing rainwater drainage pipes</u>			
13	Carefully remove existing box gutters	m	220
<u>Carefully take out and removing rainwater pipes, setting aside for re-use and later refixing</u>			
14	Downpipes	m	36
<u>Removal of existing sanitary plumbing pipework</u>			
15	Carefully remove existing pipes	m	20
Carried Forward			R
Section No. 2 Bill No. 1 Alterations			

Brought Forward			R
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
16	Carefully take out and remove existing IBR roof sheeting	m2	2,065
17	Drywall partitioning	m2	46
18	Timber partitioning	m2	139
19	Carefully remove existing steel roof structure and make good where required	m2	488
20	Carefully remove existing timber roof trusses and remove from site	m2	38
<u>Taking out and removing sundry joinery work, fittings, etc</u>			
21	Brickwork counter 6000 x 600 x 900mm high	No	1
22	Timber shelves 600mm wide	m	30
23	Timber sink cupboard 5000 x 600 x 900mm high, including sink and disconnecting waste pipe	No	1
<u>Taking out and removing ironmongery</u>			
24	Toilet paper holder from wall	No	12
<u>Taking out/off and removing sundry metalwork</u>			
25	3600mm High External welded mesh fence including posts and gates	m	65
26	3540mm High Internal wire mesh fence including posts and gates	m	15
27	5550mm High Internal wire mesh fence including posts and gates	m	52
28	2100mm High Boundary wire mesh fence with razor wire including foundations	m	241
29	2100mm High palisade fencing including foundations	m	6
30	5296 x 5405mm wide carports	No	5
31	4000 x 3230mm High Roller shutter doors with expanded metal security gates	No	1
Carried Forward			R
Section No. 2 Bill No. 1 Alterations			

Brought Forward			R
32	5454 x 3218m High Steel shopfront with 5 fixed panels and a double door with a 5454 x 3218mm High expanded metal security double gate	No 1	
33	900 x 2125mm High expanded metal steel gate	No 1	
34	1650 x 2125mm High expanded metal steel gate	No 1	
<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
35	Vitreous china WC pan with cistern and flush pipe, including disconnecting waste pipe	No 12	
36	Wash hand basin, including disconnecting waste pipe	No 5	
37	Kitchen sink, including disconnecting waste pipe	No 2	
38	Wash Trough, including disconnecting waste pipe	No 1	
<u>Hacking up/off and removing plaster from concrete</u>			
39	Internal plaster from concrete slab	m2 16	
<u>Hacking up/off and removing existing tiling and preparing surfaces for new tiling (measured elsewhere)</u>			
40	On floors	m2 43	
41	On walls	m2 274	
<u>Demolishing of existing foundation</u>			
42	Provide the sum of R20,000.00 (Twenty Thousand Rand) for the demolition of existing foundations on the outside of the main building	Item	
<u>PREPARATORY WORK TO EXISTING SURFACES</u>			
<u>Scraping and removing existing paint to walls and soffits, and prepare surface to receive new paint (new paint measured elsewhere)</u>			
43	On internal walls	m2 2,733	
44	On external walls	m2 1,256	
Carried Forward			R
Section No. 2 Bill No. 1 Alterations			

Brought Forward			R
<u>Scraping and removing existing paint to metalwork, and prepare surface to receive new paint (new paint measured elsewhere)</u>			
45	On security screens	m2	41
<u>Scraping and removing existing paint to rainwater pipes, and prepare surface to receive new paint (new paint measured elsewhere)</u>			
46	On downpipes	m2	22
<u>OPENINGS THROUGH EXISTING WALLS ETC</u>			
<u>Breaking out for and forming plain openings through brick walls including necessary precast concrete lintels and making good plaster on both sides and into reveals and with ? concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u>			
47	Opening through one brick walls	m2	90
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 1			
Alterations			

Brought Forward			R
<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	132
<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water	Item	
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>			
8	Backfilling to trenches, holes, etc	m3	14
<u>Earth filling obtained from commercial source</u>			
9	Selected fill from Commercial Sources (G8) compacted in 150mm layers to 95% Mod AASHTO	m3	10
<u>Coarse river sand filling supplied by the contractor</u>			
10	Backfill top 35mm river sand blinding beneath surface bed	m3	13
<u>Compaction of surfaces</u>			
11	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	341
<u>SOIL POISONING</u>			
<u>Soil insecticide</u>			
12	To bottoms and sides of trenches	m2	187
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 2			
Earthworks			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Cost of tests</u>			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)			
	<u>Formwork</u>			
	Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.			
	The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
	Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described			
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"			
	Carried Forward		R	
	Section No. 2 Bill No. 3 Concrete, Formwork & Reinforcement			

Brought Forward			R
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25MPa/19mm concrete</u>			
1	Strip footings	m3	1
2	Bases	m3	6
<u>REINFORCED CONCRETE</u>			
<u>25MPa/19mm concrete</u>			
3	Surface beds on waterproofing	m3	30
4	Slabs including beams and inverted beams	m3	42
5	Isolated beams	m3	7
6	Columns	m3	1
7	Walls in foundations (Provisional)	m3	1
<u>TEST BLOCKS</u>			
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	11
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a steel float</u>			
9	Surface beds, slabs, etc	m2	143
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
<u>Rough formwork to sides</u>			
10	Walls in foundations (Provisional)	m2	6
Carried Forward			R
Section No. 2 Bill No. 3 Concrete, Formwork & Reinforcement			

Brought Forward			R
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Smooth formwork to sides</u>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	70
12	Rectangular columns with total height not exceeding 3.5m above bearing level	m2	22
13	Inverted beams above concrete	m	63
<u>Smooth formwork to soffits</u>			
14	Slabs not exceeding 250mm thick propped up exceeding 1,5m and not exceeding 3,5m high	m2	137
<u>Smooth formwork to sides and soffits</u>			
15	Isolated beams	m2	69
<u>Boxing in smooth formwork to form (Provisional)</u>			
16	20 x 20mm Vertical chamfer at corner	m	19
17	25 x 25mm Chamfer along top or bottom edge	m	349
<u>MOVEMENT JOINTS ETC</u>			
<u>Expansion joints with 10mm Jointex between vertical concrete and brick surfaces</u>			
18	10mm Joints not exceeding 300mm high	m	181
<u>Expansion joints with softboard between vertical concrete surfaces</u>			
19	10mm Joints not exceeding 300mm high	m	1
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>High tensile steel reinforcement to structural concrete work</u>			
20	All Diameter bars	t	7.73
<u>Fabric reinforcement</u>			
21	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	343
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 3			
Concrete, Formwork & Reinforcement			

Brought Forward			R
<u>BRICKWORK SUNDRIES</u>			
5	Cutting toothings and bonding new brickwork to existing	m2	34
<u>Brickwork reinforcement</u>			
6	75mm Wide reinforcement built in horizontally	m	459
7	150mm Wide reinforcement built in horizontally	m	542
<u>Prestressed fabricated lintels</u>			
8	110 x 75mm Lintels in lengths not exceeding 3m	m	58
9	220 x 150mm Lintels in lengths not exceeding 3m	m	41
<u>Turning pieces</u>			
10	220mm Wide turning piece to lintels etc	m	99
<u>PAVING</u>			
<u>EXCAVATIONS</u>			
<u>Coarse river sand filling supplied by the contractor</u>			
11	Backfill top 25mm of parking with riversand	m3	13
<u>Treatment of Terrace bed</u>			
12	Rip, scarify and compaction 150mm of in-situ material to a minimum of 90% Mod AASHTO at -2% and +1% of OMC	m2	250
<u>CONCRETE BLOCK WALKWAY</u>			
<u>Bosun 200x100x80mm Grey interlocking paving, laid with 3-5mm joints including sand brushed into joints (Colour : as per Architect's approval)</u>			
13	Paving laid in herringbone bond	m2	250
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 4			
Masonry			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 5</u>			
	<u>WATERPROOFING</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			

	<u>DAMP-PROOFING OF SUBSOIL DRAIN</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
1	In wall	m2	5	
2	Vertical	m2	9	
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
3	Under surface beds	m2	330	
	<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
	<u>"Sika Cemflex" or similar approved waterproofing as per manufacturer's specifications</u>			
4	On shower floors and walls to receive tiles	m2	64	
	<u>Supply and install 4mm "Derbigum SP4" torch-on fully bonded waterproofing</u>			
5	On flat floors not exceeding 25 degrees from the horizontal	m2	123	
	<u>PROTECTIVE STONE DRESSING</u>			
	<u>19mm River stone pebble dressing evenly spread with larger stones around outlets</u>			
6	19mm Thick on waterproofing to flat roofs	m2	123	
	Carried Forward		R	
	Section No. 2			
	Bill No. 5			
	Waterproofing			

Brought Forward

R

PROTECTIVE ROOFING PAINT

Two coats "Silvakote" bituminous aluminium paint

7	Silvakote: On waterproofing to roofs	m2	123
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Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 5
Waterproofing

Brought Forward			R
3	(D03F) 44mm Standard 2032 x 813 Solid timber door with masonite finish	No	3
4	(D03M) 44mm Standard 2032 x 813 Solid timber door with masonite finish	No	3
5	(D05) 40mm Standard 2032 x 913 Solid laminated exterior door	No	2
<u>Fire doors with 3mm thick Masonite to both sides</u> <u>(Refer to Architects drawing: 3.5.3.5.1)</u>			
6	(D04F) 900 x 2100 x 48mm Class B (2 hour) SABS approved fire door with panic push bar, single point locking (as per Architects specification on door schedule)	No	2
7	(D06) Class B (2 hour stability, 1hr integrity, 1hr insulation) 48 x 1620 x 2030mm SABS approved equal leaf double door. Leaf & frame must comply with SANS 1253 (Door & Frame) with back-to-back stainless steel D-handle (300mm), euro cylinder with thumbtum, euro cylinder mortice lock body, euro profile escutcheon - round and 150mm stainless steel projection hinge to allow for 180 degree opening (as per architects specification on door schedule)	No	13
8	(D06B) Class B (2 hour stability, 1hr integrity, 1hr insulation) 48 x 1620 x 2030mm SABS approved equal leaf double door. Leaf & frame must comply with SANS 1253 (Door & Frame) with back-to-back stainless steel D-handle(300mm), roller bolt and stainless steel hinge (as per Architects specification on door schedule)	No	1
9	(D06F) Class B (2 hour stability, 1hr integrity, 1hr insulation) 48 x 1620 x 2030mm SABS approved equal leaf double door. Leaf & frame must comply with SANS 1253 (Door & Frame) with back-to-back stainless steel D-handle(300mm), exidor 309 double door set for rebated doors package, consisting of panic bolt with horizontal pullman latches(308), panic bolt with vertical pullman latches(311), 2x horizontal pullman keeps(407), redlam lock(sliding break glass bolt with padlock) and a stainless steel hinge (as per Architects specification on door schedule)	No	3
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 7			
Carpentry and Joinery			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 8</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or 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 600mm centres and where described as "bolted" the bolts have been given elsewhere.			
	<u>ROOF AND WALL INSULATION</u>			
	<u>40mm Lambdaboard</u>			
1	"40mm Lambdaboard" to be mechanically fastened to existing purlins and new intermediate lightweight steel purlins. Dry wall fasteners must be used and fixed through the board into battens, in accordance with manufacturer's specifications.	m2	2,298	
	<u>SUSPENDED CEILINGS</u>			
	<u>Proprietary suspended ceilings</u>			
	<u>Note:</u>			
	Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)			
	<u>User note:</u>			
	a) The above note to be included in the bills of quantities after confirmation of the basic design of the ceilings, lighting, air conditioning, etc			
	Carried Forward		R	
	Section No. 2 Bill No. 8 Ceilings, Partitions and Access flooring			

	Brought Forward			R
7	Foot pedal sanitary she bin 19l	No	24	
	<u>Purpose made wall mounted grab rails</u>			
8	750mm Plumline ss cistern grab rail	No	2	
9	600mm Splashaid straight grab rail	No	2	
	<u>HINGES, BOLTS, ETC</u>			
	<u>"QS" or similar approved</u>			
10	"QS4415 stainless steel 100x76x3mm hinge	No	78	
	<u>WRITING BOARDS, PINNING BOARD, ETC</u>			
	<u>(PROVISIONAL)</u>			
	<u>"Virtrex" vitreous enamelled writing boards, etc to</u>			
	<u>SABS CSK-36-1980</u>			
11	White writing board 4 800 x 1 140mm high consisting of two fixed panels each 2 400 x 1 140mm high complete with aluminium chalk rail, etc, plugged	No	8	
	<u>"Parrot products"</u>			
12	"BDO476" 3000 X 1200mm Aluminium framed carpet bulletin board	No	10	
	<u>LOCKS</u>			
	<u>"QS Products" or similar approved</u>			
13	"5757/A" Three lever lockset	No	16	
14	"QS0055/5" 55mm Deadbolt lock	No	23	
15	"QS4445" Zinc alloy surface mounted WC indicator lockset	No	23	
16	"QS601" Roller bolt	No	6	
17	"QS4409" Disabled thumb turn indicator	No	2	
18	"QS0055/5" lock	No	2	
19	Heavy duty ABUS diskus locks	No	2	
	Carried Forward			R
	Section No. 2			
	Bill No. 9			
	Ironmongery			

Brought Forward			R
<u>DOOR CLOSERS</u>			
<u>"QS Products" or similar approved</u>			
20	"QS920NHO" Rack & Pinion door closer	No	40
21	"QS700/DA/1" Door closer with delayed action, fitted with "QS7712" steel classic cover	No	4
<u>HANDLES</u>			
<u>"QS Products" or similar approved</u>			
22	"Malindi" handle and escutcheon (male to female thru-bolts to be used as supplied)	No	16
23	"QS2203" Back-to-back stainless steel D-handle on plate (130mm)	No	6
24	"QS2201" Back-to-back stainless steel D-handle installed as per SANS 10400 Part S	No	2
<u>LETTERS, NAMEPLATES, ETC (PROVISIONAL)</u>			
25	60 x 3mm Thick engraved perspex plate	No	45
26	812 x 900mm High stainless steel kickplate	No	47
27	812 x 300mm High stainless steel kickplate	No	43
<u>SUNDRIES</u>			
<u>"QS Products" or similar approved</u>			
28	"QS4434" Door stop and coat hook	No	23
29	"QS4422" Hooded door stop	No	16
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 9			
Ironmongery			

Brought Forward

R

Welding

Welding shall conform to SABS 0167 and be in accordance with SABS 044 "Welding : Parts I, II and III".

Welding shall be carried out in a manner which will prevent any distortion of the weld or the parent section.

All welds shall have adequate root fusion and shall be free from cracks, porosity or other irregularities and any undercutting shall be made good by the deposition of additional runs of weld metal. Any completed welds showing cracks, cavities or other defects shall be cut out and made good at the sub-contractor's own expense.

Mild steel electrodes shall comply with SABS 455 "Covered Electrodes for Manual Arc Welding of Mild Steel and Medium High Tensile Steel".

All welding to be 6mm fillet weld unless otherwise shown.

Bolts

All structural bolts shall be grade 8.8 unless otherwise noted.

Bolts shall have well-formed heads forged from the solid (minimum sizes M20 or refer to engineer's drawings).

Nuts shall closely fit the bolts so that they can only just be turned by hand and at least one clear thread shall project beyond the nut when fully tightened.

All bolts shall have one washer under the nuts and shall be so tightened that the threaded portion does not bear on the members connected. Where bolt heads or nuts bear upon bevelled surfaces they shall be provided with tapered washers of 2,3mm mean thickness to provide a seating square with the axis of the bolt.

Carried Forward

R

Section No. 2
Bill No. 10
Structural Steelwork

Brought Forward

R

Erection

The steelwork generally is to be manufactured in the sub-contractor's works paying due regard to transport and erection facilities. Items may be detailed for delivery "piece small" or the sub-contractor may prefabricate if he is satisfied that suitable arrangement for transport can be made.

Where temporary bracing or propping is necessary, the sub-contractor shall be responsible for the design, erection, maintenance and removal (where necessary) of such supports. If transport necessitates splicing of trusses, then a proposal of this shall be submitted to the engineer at an early stage for written approval.

Connections are to be made for the forces indicated on the drawings or to the maximum capacity of the members.

- a) Before the sub-contractor commences erection, he shall check the levels and setting out of the holding down bolts and shall report any discrepancies immediately to the engineer.
- b) The sub-contractor shall submit to the engineer his proposed methods and procedures of erection.
- c) Temporary bracing should be used where necessary to ensure stability during the erection sequence.
- d) No permanent bolting or welding shall be carried out on any position of the steelwork until that position has been properly aligned and levelled.
- e) Cognizance should be taken of the fact that other contractors may also be on site and the sub-contractor shall conduct his erection work in such a manner as not to hamper or interfere with the work of the contractors.
- f) Any defects noticed by the engineer whether during or after erection shall, immediately after it was brought to the contractor's attention, be made good by the sub-contractor at his own expense.
- g) Draft pins, jacking equipment etc, shall not be used to bring incorrectly fabricated steelwork into place. No burning of holes in steelwork will be permitted without written consent of the engineer.

Carried Forward

R

Section No. 2
Bill No. 10
Structural Steelwork

Brought Forward

R

Cleaning and Painting

Corrosion protection shall consist of:

- i) Blast clean steelwork to Sa 2.5 of SIS 05-59-00 (or alternate to be approved by engineer)
- ii) Apply one coat (30 micron) red lead primer in accordance with SABS 681
- iii) Apply two coats (30 microns minimum) multi-purpose undercoat in accordance with SABS 681. Use Type I, otherwise use Type II if paint is applied within 16 hours of the application of red lead primer.
- iv) Apply one coat of Alkyd base enamel (30 micron) to architect's colour specification. Damaged areas of paint shall be made good on site in accordance with SABS 0120.

NOTE:

For exposed steelwork (interior and exterior) i, ii, iii, and iv shall apply. for concealed roof trusses i and ii shall apply. Where applicable, grout shall be provided under the base plates before any primary loads are applied to the structure.

All structural steel is to be thoroughly degreased to remove all grease or oil and when wire-brushed, scraped or sandpapered to remove all rust, mill scale or surface contaminations and is to be immediately given one coat zinc chromate primer prior to delivery to site. All damaged paintwork to be made good on site after erection is complete.

Testing of Welders

Tenderer must include in their rates for the testing of any welder used on the work who has not been tested within a period of six months immediately preceding employment on this contract.

STEEL COLUMNS AND BEAMS

Welded flat bars in single lengths with flat section bearer and connection plates bolted to concrete beams

1	100x10mm flat bar	t	0.04
2	M20 Grade 8.8 Bolts	No	16

Carried Forward to Summary of Section No. 2

Section No. 2
Bill No. 10
Structural Steelwork

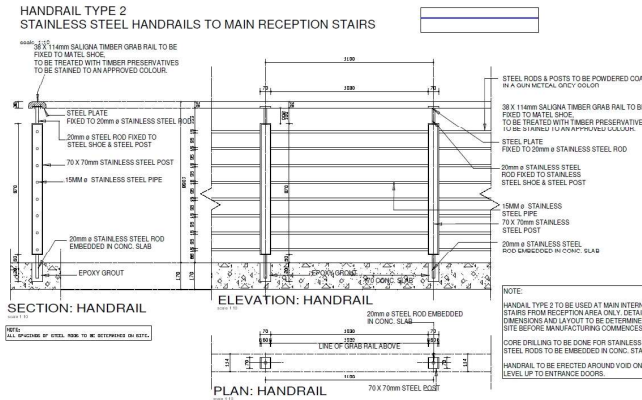
R

Brought Forward			R
<u>Compliance</u>			
All balustrading to comply with SANS 10400 & SANS 10160. Installer to table a Balustrade Compliance Certificate on completion of balustrade installation			
All angle deviations horizontal or vertical to be by means of seamless mitred joints except for landing termination bends. Workmanship sample to be tabled for approval			
Shop drawings are to be tabled for approval before manufacturing			
1	Shop drawing in SS preliminaries	Item	
<u>DOOR FRAMES, INCLUDING BUILDING INTO BRICKWORK</u>			
<u>Class A 1.6mm Mild steel double 48x25m rebated frames suitable for brickwork (Refer to Architects drawing: 3.5.3.5.1)</u>			
2	Frame for door 869 x 2060mm high	No 3	
3	Frame for door 956 x 2125mm high	No 1	
4	Frame for door 977 x 2060mm high	No 1	
5	Frame for door 1676 x 2100mm high	No 3	
Carried Forward			R
Section No. 2 Bill No. 11 Metalwork			

STEEL BALUSTRADES

Purpose made handrail core drilled balustrade to concrete

Purpose made core drilled balustrade to concrete as indicated on Architect's detail below:



- | | | | |
|--|---|----|----|
| 6 | Stainless steel 920mm High overall balustrade Type 2 bolted to the side of concrete slabs with a 38 x 114mm Saligna timber grab rail to be fixed to metal shoe | m | 89 |
| 7 | Extra over balustrade for elbow bend | No | 3 |
| 8 | Extra over balustrade for knee bend | No | 3 |
| <u>STEEL GATES, SCREENS, ETC.</u> | | | |
| <u>Welded screens and gates to brickwork (Refer to Architects drawing: 3.5.3.5.1)</u> | | | |
| 9 | (D07) 2790 x 3060mm High plant yard gate with 6320E expanded mesh on 40x5mm flat bars welded at angles from corner to corner, CISA 421M or equal, weld on lockbox, fitted with CISA 42111 steel gate lock (latch only), includes, cylinder, escutcheons and keys (as per Architects specification on door schedule) | No | 1 |
| 10 | (G01) 788 x 2032mm high gate with 50 x 25mm mild steel rectangular sections and 6320E expanded mesh on 40 x 5mm flat bars welded at angles from corner to corner (as per Architects specification on door schedule) | No | 1 |
| 11 | 3.818 x 2.7m High sliding gate to match clearview fence | No | 1 |

Brought Forward			R
<u>ALUMINIUM SHOPFRONTS</u>			
<u>Charcoal powdercoated aluminium shopfronts glazed with 6,38mm thick laminated clear safety glass and plugged to brickwork or concrete (Refer to Architects drawing: 3.5.3.5.1)</u>			
12	(D17) Shopfront with irregular shape, overall size 2400 x 3000mm high extreme with QS products back-to-back stainless steel D-handle(300mm), euro profile mortice lock with 66mm thumbturn cylinder and Dorma 100x75x3mm stainless steel rising burtt hinge (as per Architects specifications on door schedule)	No	1
13	(D15) Shopfront with irregular shape, overall size 3600 x 3000mm high extreme with QS products back-to-back stainless steel D-handle (300mm), euro profile mortice lock with 66mm thumbturn cylinder and 100x75x3mm Dorma stainless steel rising butt hinge (as per Architects specification on door schedule)	No	2
14	(D16) Shopfront with irregular shape, overall size 5454 X 3200mm high extreme with QS products back-to-back stainless steel D-handle(300mm), euro profile mortice lock with 6mm thumbturn cylinder and Dorma 100x75x3mm stainless steel rising butt hinge (as per architects specification on door schedule)	No	1
Carried Forward			R
Section No. 2 Bill No. 11 Metalwork			

Brought Forward			R
<u>GALVANIZED PRESSED STEEL ROLLERSHUTTERS</u>			
<u>Purpose made "Xpanda" solid slatted roller shutter fixed to brickwork or concrete (Refer to Architects drawing: 3.5.3.5.1)</u>			
15	(D08) 3230 x 2810mm High Class C (120min fire resistance) Xpanda roller shutter, slats: 75mm x 1.0mm or 1.2mm galvanized steel interlocking stats. Guides: 76mm x 38mm x 2.5mm galvanized steel Barrel: 114mm OD x 4mm wall thickness steel tube. Canopy & Motor Box: 1.0mm galvanized steel. T-Bar Bottom Rail: 50mm x 50mm x 5mm steel angle, fitted with a drive motor with a battery backup (as per Architects specification on door schedule)	No	8
16	(D09) 3730 x 2810mm High Class C (120min fire resistance) Xpanda roller shutter, slats: 75mm x 1.0mm or 1.2mm galvanized steel interlocking stats. Guides: 76mm x 38mm x 2.5mm galvanized steel Barrel: 114mm OD x 4mm wall thickness steel tube. Canopy & Motor Box: 1.0mm galvanized steel. T-Bar Bottom Rail: 50mm x 50mm x 5mm steel angle, fitted with a drive motor with a battery backup (as per Architects specification on door schedule)	No	1
17	(D10) 4220 x 3610mm High Class C (120min fire resistance) Xpanda roller shutter, slats: 75mm x 1.0mm or 1.2mm galvanized steel interlocking stats. Guides: 76mm x 38mm x 2.5mm galvanized steel Barrel: 114mm OD x 4mm wall thickness steel tube. Canopy & Motor Box: 1.0mm galvanized steel. T-Bar Bottom Rail: 50mm x 50mm x 5mm steel angle, fitted with a drive motor with a battery backup (as per Architects specification on door schedule)	No	1
18	(D11) 5230 x 3618mm High Class C (120min fire resistance) Xpanda roller shutter, slats: 75mm x 1.0mm or 1.2mm galvanized steel interlocking stats. Guides: 76mm x 38mm x 2.5mm galvanized steel Barrel: 114mm OD x 4mm wall thickness steel tube. Canopy & Motor Box: 1.0mm galvanized steel. T-Bar Bottom Rail: 50mm x 50mm x 5mm steel angle, fitted with a drive motor with a battery backup (as per Architects specification on door schedule)	No	1
Carried Forward			R
Section No. 2 Bill No. 11 Metalwork			

PANELS**DEFENCE RATED 3 CLEAR VU INVINCIBLE
WALL FENCING (ClearVU 22) CAT3**

REFERENCES CODES AND STANDARDS

A. CSIR, SABS, North Atlantic Treaty Organization (NATO) and International Aviation Authority Organization (ICAO).

CSIR Test: 050036, 050056, T09998

SABS Test: 2536/YM139

Nato Stock :5660-99-458-7414

ICAO ICAO Security Manual

PART 1

PRODUCTS

2.1 GENERAL

A. All steel materials shall be of good commercial quality, galvanized steel.

B. All pipes shall be galvanized, one piece without joints. Furnish moisture proof caps for all posts.

C. Zinc coating shall be smooth and essentially free from lumps, globs, or points.

D. Miscellaneous material shall be galvanized.

2.2 SUGGESTED MANUFACTURER: COCHRANE

2.3 DESCRIPTION OF FENCE SYSTEM:

Plant yard clearvu panels

- 19 3.06m high panel fixed to underside of roof and suspended slab with M16 bolt on 10mm thick base plates

m

6

BOLLARDS**Galvanised Mild steel CHS with 10mm wall thickness, filled with mass concrete welded to a base plate and painted with yellow/black chevron with enamel paint**

- 20 150mm Diameter CHS welded to a 250 x 250 x 10mm Base plate 15mm x 200mm Long rawbolts or approved chemical anchors

No

7

Brought Forward			R
<u>CARPORTS</u>			
21	5296 x 5405 wide Carports made up of Klip-lok 700 roof sheeting resting on lip channels and RHS, hung at a 3 degree slope from the wall with CHS struts. (As per engineers specifications and as indicated on Architects' drawing number 3.2.3.2.2)	No 5	
<u>BUDGETARY ALLOWANCES</u>			
<u>Clearvu fencing panels at external staircase shafts</u>			
22	Allow the budgetary amount of R195,000.00 (One Hundred and Ninety Five Thousand) for Clearvu fencing panels to enclose both staicase shafts	Item	195,000.00
<u>Security steel screens</u>			
23	Allow the budgetary amount of R110,000.00 (One Hundred and Ten Thousand) for Security steel screens at ground floor windows	Item	110,000.00
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 11			
Metalwork			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 13</u>			
	<u>TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	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			
	NOTE: PC Amount refer to the cost of material delivered to site excluding any discounts, grout, glue and VAT			
	<u>WALL TILING</u>			
	<u>200 X 200mm Johnsons wall tiles</u>			
1	On bathroom walls	m2	972	
	<u>FLOOR TILING</u>			
	<u>300 x 300mm white porcelain anti-slip mosaic tiles to match existing (Prime Cost Amount R 157.13/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound</u>			
2	On shower floors	m2	11	
	<u>FLOOR TILING</u>			
	<u>600 x 600 Granito Grey Porcelain Floor Tile (Prime Cost sum of R 250/m²) , with 6mm joint with white grouting and laid on a thin bed cement based tile adhesive as approved</u>			
3	On floors and landings	m2	1,060	
4	On narrow widths	m2	8	
5	100mm high skirting	m	986	
	Carried Forward		R	
	Section No. 2 Bill No. 13 Tiling			

Item No			Quantity	Rate	Amount
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 14</u>				
	<u>PLUMBING AND DRAINAGE</u>				
	<u>(PROVISIONAL)</u>				
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill				

	<u>RAINWATER DISPOSAL</u>				
	<u>0,6mm Galvanised sheet iron with chromadek finish</u>				
1	158 x 140mm Galvanised gutter fixed to rafter feet	m	264		
2	Extra over 158 x 140mm square gutter for stop ends	No	12		
3	Extra over 158 x 140mm square gutter for outlet to 110mm diameter downpipe	No	12		
4	110mm diameter rainwater downpipe	m	8		
5	Extra over 110mm rainwater downpipe for shoe	No	2		
6	Extra over 110mm rainwater pipe for eaves offset	No	2		
	<u>SANITARY FITTINGS</u>				
	<u>"Lecico"or similiar approved</u>				
7	White Eco Basin & Pedestal Combo ECOBPED - Including holes for hot and cold taps (Prime Cost Amount of R 900.00 Each)	No	22		
	<u>"Vaal"or similar approved</u>				
8	"Klip" low level wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	24		
	<u>"Franke" or similar approved</u>				
9	Mens 1411mm wide Auto-flush Trough Urinal	No	10		
	Carried Forward				
	Section No. 2				
	Bill No. 14				
	Plumbing and Drainage				
				R	

		Brought Forward			R
		<u>"Vaal" or similar approved</u>			
10	Constantia white toilet seat with a chrome hinge	No	24		
		<u>TRAPS, ETC</u>			
		<u>"Marley"</u>			
11	32 x 50mm Deep seal "P" or "S" trap	No	32		
		<u>"ISM" or similar approved</u>			
12	50mm Shower trap including square chromium plated grating	No	11		
		<u>TAPS, VALVES, ETC</u>			
		<u>"Victory" or similar approved</u>			
13	Chrome Plated Undertile Tap Headpart V37 Hot & Cold (Prime Cost Amount of R 550.00 Each) Including Concealed Part	No	11		
		<u>Brass shower head or similar approved</u>			
14	"SA03300" - Basic Brass Shower Head 50mm (Prime Cost Amount of R 340.00 Each) inclusive of shower arm	No	11		
		<u>"Cobra Watertech" or similar approved</u>			
15	Chrome victory basin pillar tap	No	22		
16	Chrome urinal flushing valve	No	10		
		<u>ELECTRIC WATER HEATERS</u>			
		<u>"Kwikot" or similar approved</u>			
17	200 Litre electric water heater wall mounted including standard with overflow pipe	No	3		
		Carried Forward			R
	Section No. 2				
	Bill No. 14				
	Plumbing and Drainage				

BUDGETARY ALLOWANCES

The following budgetary allowances are for work to be executed by the main contractor: This work will be measured and valued at bill rates in accordance with clause 32 of the Principal Building Agreement or omitted if not required

18 Budgetary allowance of R100,000.00 (One Hundred Thousand Rand) for installation of waste pipes to ensure full functionality of the buildings drainage system to the Principal Agent's satisfaction.

Item

19 Budgetary allowance of R100,000.00 (One Hundred Thousand Rand) for installation of copper pipes pipes to ensure full functionality of the buildings water system to the Principal Agent's satisfaction.

Item

TESTING

20 Testing water pipe system

Item

SUBSOIL DRAINAGE

110mm Diameter HDPE Nextube perforated pipe enclosed by 450 x 450mm 19mm washed stone filling in sub-soil drain, rock filling enclosed by "Geotextile PT110" or similar approved

21 Sub Soil - Drain

m

12

Carried Forward to Summary of Section No. 2

Section No. 2

Bill No. 14

Plumbing and Drainage

R

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 16</u>			
	<u>PAINTWORK</u>			
	Note: All paintwork to be "Dulux" or similar approved product			
	<u>PAINTWORK TO BAGWASHED BRICK</u>			
	<u>One coat alkali resistant primer, one undercoat and two coats - Dulux "Evening shadow 30BB 21/056", "Bumble fun 39YY 52/691" and "Grey chic 69YY 66/036"</u>			
1	On walls	m2	3,376	
	<u>ON FLOATED PLASTER</u>			
	<u>One coat alkali resistant primer, one undercoat and two coats - Dulux "Ski Adventure" and "Police Siren 45BB 18/339"</u>			
2	On internal walls	m2	4,939	
	<u>One coat alkali resistant primer, one undercoat and two coats - Dulux "Evening shadow 30BB 21/056", "Bumble fun 39YY 52/691" and "Grey chic 69YY 66/036"</u>			
3	On external walls	m2	613	
	<u>ON SMOOTH CONCRETE</u>			
	<u>One coat alkali resistant primer, one undercoat and two coats - Dulux "Evening shadow 30BB 21/056", "Bumble fun 39YY 52/691" and "Grey chic 69YY 66/036"</u>			
4	On slabs and beams	m2	334	
	Carried Forward		R	
	Section No. 2			
	Bill No. 16			
	Paintwork			

Brought Forward			R
<u>ON METAL</u>			
<u>Sand down all the window frames. Window frames to be painted. Colour: 1x coat dulux steel primer, and 1x coat dulux "Grey chic 96YY 66/036" and dulux "Darkened storm 42BB 09/032"</u>			
5	On door frames	m2	7
6	On windows with burglar bars	m2	50
7	On staircase handrails	m2	20
8	On security screens	m2	41
<u>ON RAINWATER PIPES</u>			
9	On downpipes	m2	22
<u>ROAD MARKING PAINTWORK</u>			
<u>Prepare and apply one coat white reflective road marking paint on pre-cast concrete blocks</u>			
10	Line 100mm wide on paving and concrete	m	35
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 16			
Paintwork			

**Bill
No**

**Page
No**

Amount

Carried to Final Summary

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>BOUNDARY CLEARVU FENCE</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			

	<u>SUPPLEMENTARY PREAMBLES</u>			
	All Tenderers will be deemed to have visited the site prior to submitting their tender to determine the nature and extent of the alteration and demolition work and the value of the materials to be recovered. No claim for a variation in the credit allowance for recoverable materials in respect of demolition items will be considered.			
	All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned.			
	In taking down and removing existing work the utmost care must be taken to avoid any structural or other damage to the remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc to ensure the stability of all structures during the alteration/demolition work. The Contractor will be held solely responsible for the safety and stability of the buildings for the whole period of the contract and must make good any damage at his own expense.			
	Existing services must be maintained at all times to the existing buildings. If it is found necessary to disconnect any service then suitable temporary or alternate services must be provided to the existing buildings.			
	Special care shall be exercised during the progress of the work to ensure that any electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice must be given to the Principal agent if any disconnection or alterations become necessary.			
	The Contractor shall cover up and protect from injury all work not removed and shall make good at his own expense any damage that may occur.			
	Carried Forward		R	
	Section No. 3 Bill No. 1 Fencing			

Brought Forward Any water supply or other piping, etc that may be encountered and found necessary to disconnect or cut are to be effectually stopped off and any new connections that may be necessary shall be made with the proper fittings to the satisfaction of the Principal Agent. Where sanitary fittings, geysers, etc are to be removed the Contractor shall allow for removing all exposed waste or water supply pipes to the nearest suitable junction or connection and stopping off, as well as for making good plaster, screeds, etc. Prices for the removal of concrete slabs, etc must include for removal of reinforcement, screeds, membrane waterproofing, conduits, etc. Prices for the removal of concrete surface beds, etc must include for removal of reinforcement, screeds, conduits, damp proof membrane, etc. The Contractor is to note that removal of the existing floor finishes such as vinyl, carpets, ceramic tiles, etc has been measured separately. Taking down existing walls is to include for skirtings, cornices, conduits, pipes, brick or concrete fins, lintels, etc built into the structure and for making good walls, floors, ceilings, etc as described. The Contractor is to note that items for the removal of joinery, etc such as shelves, pelmets, curtain rails, pinning boards, signage, etc has been measured separately. Removal of doors, windows, fittings, etc is to include for their removal complete with frames, ironmongery, glass, quadrants, architraves, skirtings, burglar bars and all accessories to walls, reveals, around openings, for cutting out cills, etc, for hacking up flooring at openings and for making good. Removal of sanitary fittings is to include for the removal and blocking off of service pipes, taps, traps, fixing brackets, cisterns, etc complete. Building up of existing openings where given in number shall be deemed to include preparing existing surfaces all round, brickwork properly toothed and bonded to existing and shot pinned to concrete, wedging up and unless otherwise stated making good finishes on both sides to match existing. Allow for watering the works sufficiently to prevent nuisance from dust. OLD MATERIALS TO BE CARTED AWAY: Old materials from the alterations, except where described to be re-used or handed over, as well as all	Brought Forward	R
Carried Forward Section No. 3 Bill No. 1 Fencing	Carried Forward	R

Brought Forward

rubbish, rubble, debris etc., must be regularly carted from the site and not be allowed to accumulate on or around the site.

OLD MATERIALS NOT TO BE RE-USED:

None of the old materials are to be used for new work except where specifically described as being set aside for re-use.

OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR:

Old materials from alterations, except where described to be re-used or handed over, become the property of the Contractor who must allow credit for same in the Final Summary.

HANDING OVER OF MATERIALS:

Where certain materials or articles from demolitions or articles are described as to be handed over by the Contractor to the Regional Representative or Representative/Agent, such materials or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.

NEW PERIMETER FENCE

CLEARVU "CLASS A" OR SIMILAR APPROVED HIGH SECURITY PERIMETER FENCING

REFERENCES CODES AND STANDARDS

- A. DEPARTMENT OF BASIC EDUCATION
SCHOOL INFRASTRUCTURE SAFETY AND
SECURITY GUIDELINES (First Version) 25 March
2017
- B. CSIR, SABS, North Atlantic Treaty Organization
(NATO) and International Aviation Authority
Organization (ICAO).
CSIR Test: 050036, 050056, T09998
SABS Test: 2536/YM139
Nato Stock :5660-99-458-7414
ICAO ICAO Security Manual

Carried Forward

Section No. 3
Bill No. 1
Fencing

R

R

Brought Forward			R
C. CORROSION PROTECTION AND RUST CONTROL 1. Posts, mesh panels for the fence and gate material shall be hot-dip galvanised and then Fusionbond epoxy powder coated (or similar) for schools in coastal areas and only fusion-bond epoxy powder coated (or similar) for schools in inland areas where corrosion is not a problem; 2. The anti-burrow mesh shall be hot-dip galvanised and then bitumen-dip coated. D. GUARANTEES / WARRANTIES 1. Ten (10) year anti-corrosion guarantee on all the fence and gate materials; 2. Three (3) year anti-vandalism guarantee on all the fence and gate materials (Materials that are guaranteed to be vandal-proof must not be capable of being vandalised successfully with ease using ordinary tools during the tenure of the guarantee). All Tenderers will be deemed to have familiarise themselves with the above mentioned Codes and Standards <u>High Tensile Steel Posts</u> Posts shall be embedded 600mm deep x 400 x 400 with 15 - 25 MPa concrete. Post shall include 'Locking Recess Mechanism' to secure panel edge. Posts shall be hot-dip galvanised then Fusion-bond epoxy powder coated. UV stabilised moisture proof end-caps deemed to be included			
1	3.0m long post	No	91
Carried Forward			R
Section No. 3 Bill No. 1 Fencing			

Brought Forward			R
<u>High Tensile Welded Mesh Panels</u>			
Panel shall be stepped where the site is sloping to follow the ground profile; The panel aperture size (centre to centre) shall be 76.2mm horizontal x 12.7mm vertical and shall be formed of 4mm wire strands; The panel shall be reinforced with 50mm deep "V" formation horizontal recessed bands to enhance rigidity; Anti-scale clamps must be provided against the post where there is a "V" formation on the mesh panel; Mesh panels shall have a 1 x 90° flange along the top and 1 x 30° flange along the bottom edge (integrated rigid angle); All the mesh panels must be secured along the entire length of the posts with a locking mechanism and using anti-vandal bolts that cannot be tampered with or manoeuvred with ordinary tools; All the mesh panel fixtures shall be on the inside of the fence and not accessible from the outside; The mesh panel and all the mesh panel fixtures shall be hot-dip galvanised then Fusion-bond epoxy powder coated			
2	2.4m high panel	m	241
<u>Over-climb Prevention</u>			
3	100mm high toughened steel Castle Spike or Spear Spikes affixed on top of mesh panels along full length of fence with anti-vandal bolts from the inside of the fence. Spikes shall be hot-dip galvanised then Fusion-bond epoxy powder coated.	m	267
<u>Gate Anti-burrow / Anti-dig</u>			
4	100mm thick 20MPa slab reinforced with minimum Mesh Ref 193 extending 1m on both sides of Driveway Entrance Gate and Pedestrian Gate inclusive of all excavations, cart away and risk of collapse etc.	m	26
<u>TURNSTILES ETC</u>			
5	Turnstar - Titan 3 or similar approved Pedestrian Turnstiles with overall dimensions of 1430mm Wide x 2250mm high. Finished with Polyester exterior grade power coat, colour charcoal blue, colour to be approved by Architect prior to order all according to manufacturer specifications.	No	2
Carried Forward			R
Section No. 3 Bill No. 1 Fencing			

Brought Forward			R
<u>SECURITY GATE ETC</u>			
6	Turnstar - Full height Security Gate or similar approved with overall dimensions of 970mm Wide x 2250mm high formed of 40 x 4mm flat square hollow section framing with one 40 x 4mm flat square hollow section intermediate rail spaced 1060mm in the centre of the gate and the top and bottom part both with nine 10 x 10mm square section vertical intermediate rails at 110mm centres; the gate filled with 100 x 130 x 30mm lock box of 2mm plate for and including approved mortice lock with chromium plate furniture and 153mm long "Quadrisection Profile B14" striking plate slot-holed for latch and bolt. Finished with Polyester exterior grade power coat, colour charcoal blue, colour to be approved by Architect prior to order all according to manufacturer specifications.	No 1	
<u>BIOMETRIC AND CARD ACCESS CONTROL</u>			
7	Provide the sum of Thirty Thousand for supply and installation of Biometric and card access control as well as the required posts executed complete by an approved sub-contractor	Item	30,000.00
8	Add for profit		%
9	Add for general attendance		%
<u>BOUNDARY FENCE SLIDING GATE</u>			
<u>Clearvu Entrance Gate</u>			
10	Design, Supply and Install Driveway Entrance Gate 6m length x 3m height of clearvu materials inclusive of new sliding track embedded in concrete and posts, sliding mechanism, anti-lift mechanism, locking mechanism, over-climb prevention and latches	No 1	
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 1			
Fencing			

R

Electrical Installation

- Item

6,020,691.87

- %

- %

Provide the sum of R2,169,336.00 Two Million One Hundred and Sixty Nine Thousand Three Hundred and Thirty Six for Mechanical HVAC installation

- %

- %

7	Provide the sum of R1,568,500.00 (One Million Five Hundred and Sixty Eight Thousand Five Hundred) for Fire Protection installation, supplied and installed complete
---	---

- Item

1,568,500.00

- %

- %

10	Allow the Provisional Amount of R1,000,000.00 (One Million Rand) for the installation of a lift to be done by a Selected Sub-contractor
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- Item

1,000,000.00

- %

- %

R

-92-

SECTION SUMMARY - Provisional Sums

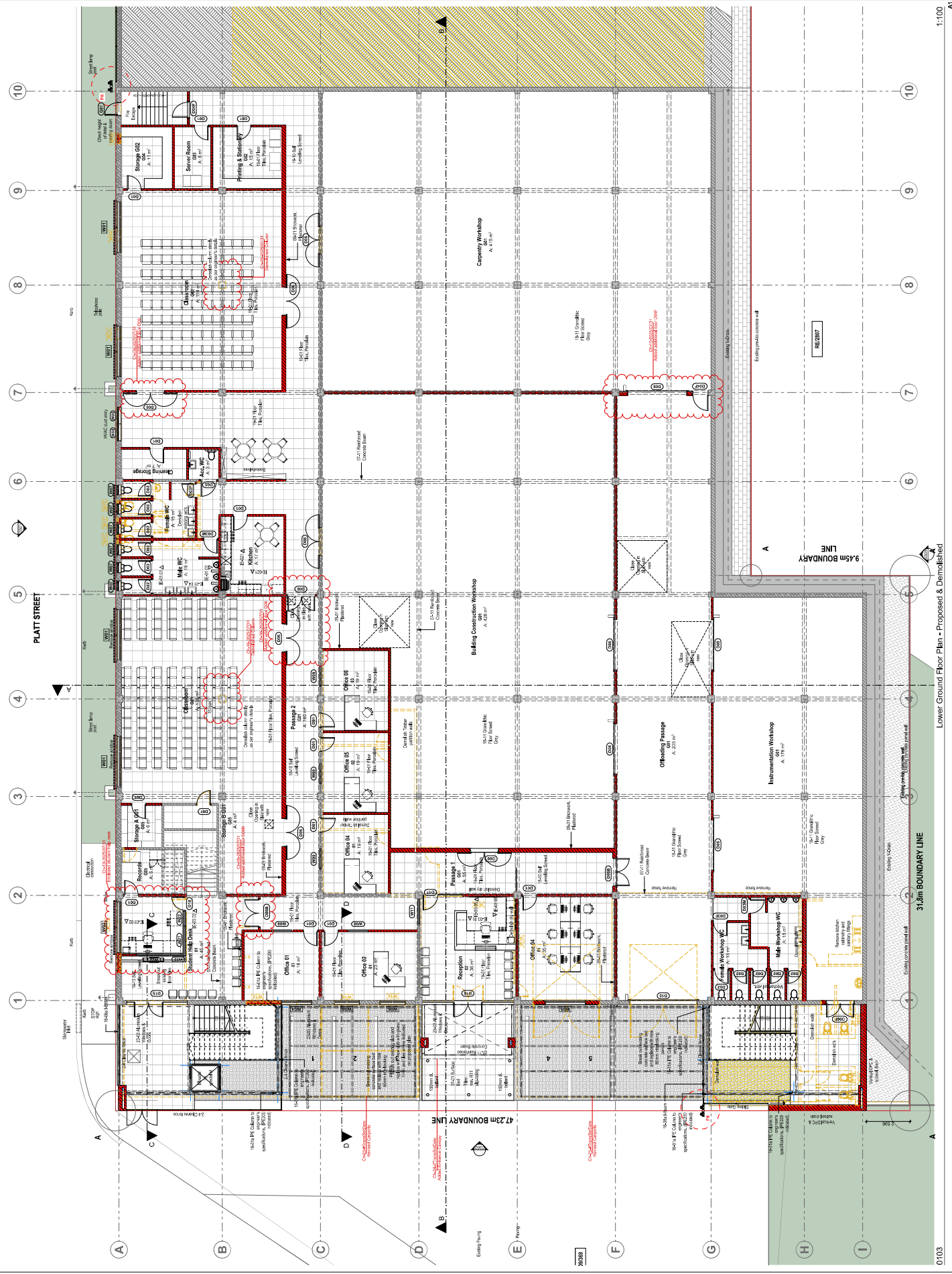
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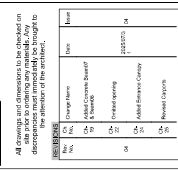
Section No	FINAL SUMMARY	Page No	Amount
1	Preliminaries and General	39	
2	Main Building	84	
3	Provisional Sums	94	
TOTAL OF BUILDERS WORK			R
Allow 10% for contingencies to be used at the sole discretion of the principal agent			R
Sub Total			R
Vat @ 15%			R
TOTAL CONTRACT VALUE			R
Carried to Form of Tender			R

Per No.	Ch Name	Change Name	Date	Issue
04	Ch 12	Enhance student help text	2025-07-25	04
	Ch 13	Remove Functions section		
	Ch 14	Add column number and #		
	Ch 15	Revised Column		

NOTES

Plans	Plans
1. Site Plan 2. Grading Plan 3. Foundation Plan 4. Structural Plan 5. Electrical Plan 6. Plumbing Plan 7. HVAC Plan 8. Interior Finish Plan 9. Exterior Finish Plan 10. Landscaping Plan 11. Signage Plan 12. Other Plans	1. Site Plan 2. Grading Plan 3. Foundation Plan 4. Structural Plan 5. Electrical Plan 6. Plumbing Plan 7. HVAC Plan 8. Interior Finish Plan 9. Exterior Finish Plan 10. Landscaping Plan 11. Signage Plan 12. Other Plans
Notes	Notes
1. General Notes 2. Foundation Notes 3. Structural Notes 4. Electrical Notes 5. Plumbing Notes 6. HVAC Notes 7. Interior Finish Notes 8. Exterior Finish Notes 9. Landscaping Notes 10. Signage Notes 11. Other Notes	1. General Notes 2. Foundation Notes 3. Structural Notes 4. Electrical Notes 5. Plumbing Notes 6. HVAC Notes 7. Interior Finish Notes 8. Exterior Finish Notes 9. Landscaping Notes 10. Signage Notes 11. Other Notes
Drawings	Drawings
1. Site Plan 2. Grading Plan 3. Foundation Plan 4. Structural Plan 5. Electrical Plan 6. Plumbing Plan 7. HVAC Plan 8. Interior Finish Plan 9. Exterior Finish Plan 10. Landscaping Plan 11. Signage Plan 12. Other Plans	1. Site Plan 2. Grading Plan 3. Foundation Plan 4. Structural Plan 5. Electrical Plan 6. Plumbing Plan 7. HVAC Plan 8. Interior Finish Plan 9. Exterior Finish Plan 10. Landscaping Plan 11. Signage Plan 12. Other Plans
Specifications	Specifications
1. General Specifications 2. Foundation Specifications 3. Structural Specifications 4. Electrical Specifications 5. Plumbing Specifications 6. HVAC Specifications 7. Interior Finish Specifications 8. Exterior Finish Specifications 9. Landscaping Specifications 10. Signage Specifications 11. Other Specifications	1. General Specifications 2. Foundation Specifications 3. Structural Specifications 4. Electrical Specifications 5. Plumbing Specifications 6. HVAC Specifications 7. Interior Finish Specifications 8. Exterior Finish Specifications 9. Landscaping Specifications 10. Signage Specifications 11. Other Specifications
Cost Estimate	Cost Estimate
1. General Cost Estimate 2. Foundation Cost Estimate 3. Structural Cost Estimate 4. Electrical Cost Estimate 5. Plumbing Cost Estimate 6. HVAC Cost Estimate 7. Interior Finish Cost Estimate 8. Exterior Finish Cost Estimate 9. Landscaping Cost Estimate 10. Signage Cost Estimate 11. Other Cost Estimate	1. General Cost Estimate 2. Foundation Cost Estimate 3. Structural Cost Estimate 4. Electrical Cost Estimate 5. Plumbing Cost Estimate 6. HVAC Cost Estimate 7. Interior Finish Cost Estimate 8. Exterior Finish Cost Estimate 9. Landscaping Cost Estimate 10. Signage Cost Estimate 11. Other Cost Estimate
Summary	Summary
1. General Summary 2. Foundation Summary 3. Structural Summary 4. Electrical Summary 5. Plumbing Summary 6. HVAC Summary 7. Interior Finish Summary 8. Exterior Finish Summary 9. Landscaping Summary 10. Signage Summary 11. Other Summary	1. General Summary 2. Foundation Summary 3. Structural Summary 4. Electrical Summary 5. Plumbing Summary 6. HVAC Summary 7. Interior Finish Summary 8. Exterior Finish Summary 9. Landscaping Summary 10. Signage Summary 11. Other Summary





NOTES

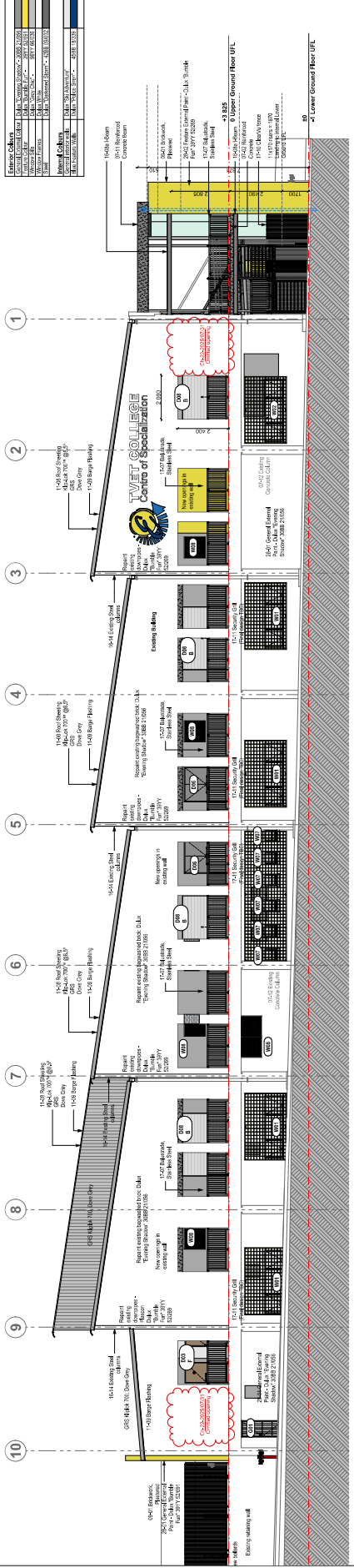
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02	02	02	02/01/2024	Revised Design
03	03	03	03/01/2024	Final Design
04	04	04	04/01/2024	Construction Documents
05	05	05	05/01/2024	As-Built Drawings
06	06	06	06/01/2024	Revised Design
07	07	07	07/01/2024	Final Design
08	08	08	08/01/2024	Construction Documents
09	09	09	09/01/2024	As-Built Drawings
10	10	10	10/01/2024	Revised Design
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12	12	12	12/01/2024	Construction Documents
13	13	13	13/01/2024	As-Built Drawings
14	14	14	14/01/2024	Revised Design
15	15	15	15/01/2024	Final Design
16	16	16	16/01/2024	Construction Documents
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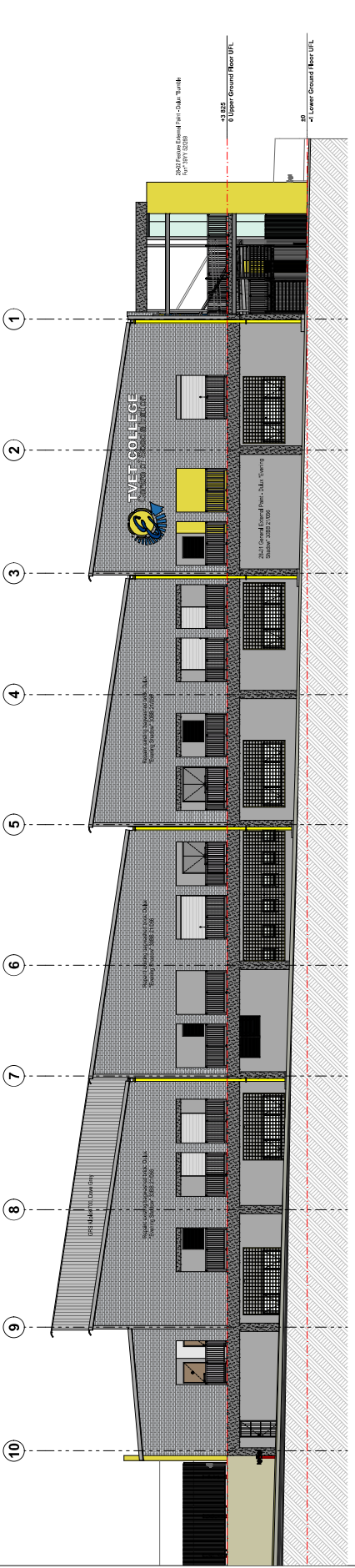
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Rev	By	Check	Date	Notes
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0301.2 Eastern Elevation - Demolition



0301.3 Eastern Elevation - Proposed new work



0301.3 Eastern Elevation - Proposed Finish

Rev	By	Check	Date	Notes
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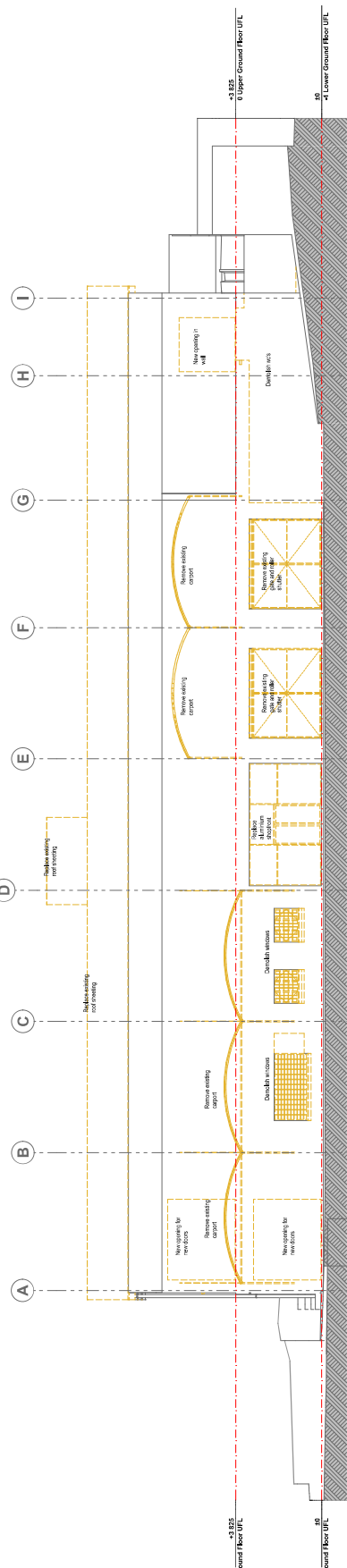
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Rev	By	Check	Date	Notes
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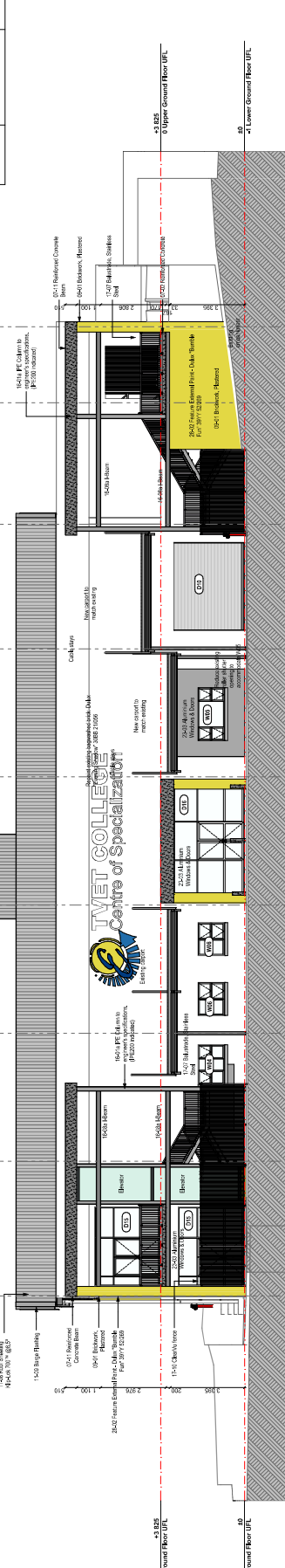
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Rev	By	Check	Date	Notes
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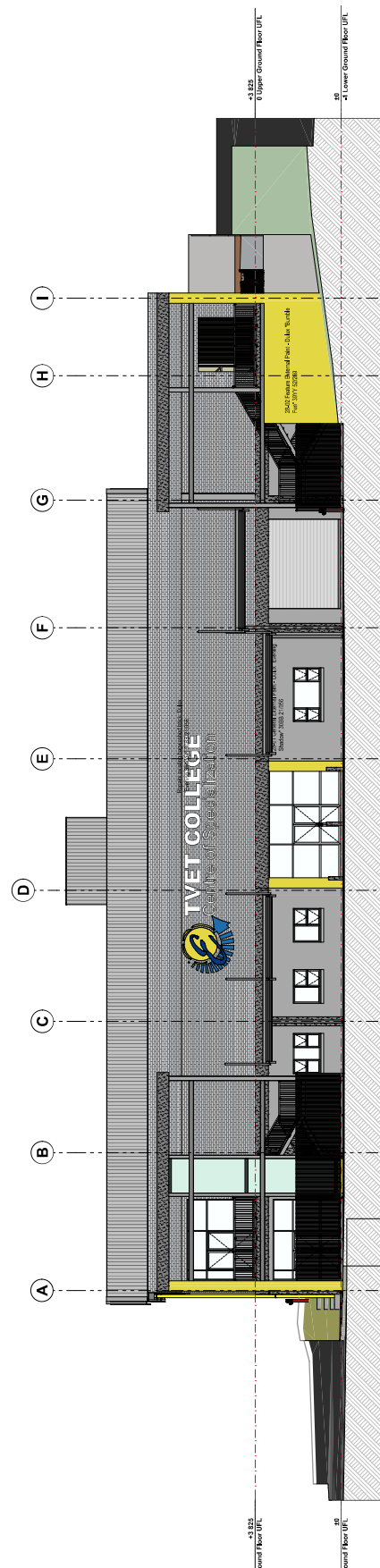


0302.2 Northern Elevation - Demolition 1:100

Material	Color	Code
Concrete	Grey	001
Brick	Red	002
Tile	Blue	003
Paint	White	004
Paint	Black	005
Paint	Yellow	006
Paint	Green	007
Paint	Blue	008
Paint	Red	009
Paint	White	010
Paint	Black	011
Paint	Yellow	012
Paint	Green	013
Paint	Blue	014
Paint	Red	015
Paint	White	016
Paint	Black	017
Paint	Yellow	018
Paint	Green	019
Paint	Blue	020
Paint	Red	021
Paint	White	022
Paint	Black	023
Paint	Yellow	024
Paint	Green	025
Paint	Blue	026
Paint	Red	027
Paint	White	028
Paint	Black	029
Paint	Yellow	030
Paint	Green	031
Paint	Blue	032
Paint	Red	033
Paint	White	034
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Paint	Red	045
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Paint	White	058
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Paint	Green	061
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Paint	Green	091
Paint	Blue	092
Paint	Red	093
Paint	White	094
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Paint	Green	097
Paint	Blue	098
Paint	Red	099
Paint	White	100



0302.2 Northern Elevation - Proposed new work 1:100

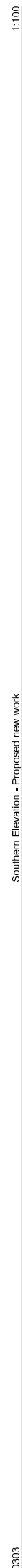


0302.2 Northern Elevation - Proposed Finish 1:100

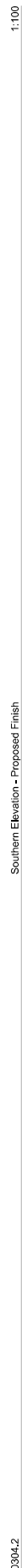
All drawings and dimensions to be checked on site prior to ordering any materials. Any discrepancies must immediately be brought to the attention of the architect.

Rev. No.	Ch. No.	Change Name	Date	Issue
03	Ch. 01	Revised Door Numbers	2025-08-24	03
	Ch. 21	Revised Part Colors		
04	Ch. 20	Added Rust Metal and new pins at Retention Enforce	2025-07-15	04
	Ch. 26	Revised Capcots		

NOTES

[illegible]

Exterior Colours	
General Exterior Color	Black "Everest Shadow" - 3088 210591
Feature Color	Black "Bumble Bee" - 3917 521851
Window Sills	Black "Gloss Char" - 6017 662356
Window Frames	Black White
Steel	Black "Darkened Storm" - 4160 110332
Interior Colours	
General Interior with	Black "Ski Adventure"
Blue Feature Wall	Black "Everest Shadow" - 4160 110336





All drawings and dimensions to be checked on site and approved by the relevant authorities. Any discrepancies must be reported to the architect immediately.

REVISIONS		Drawn by	Checked by	Date
01	01	01	01	2023/01/01
02	02	02	02	2023/01/01
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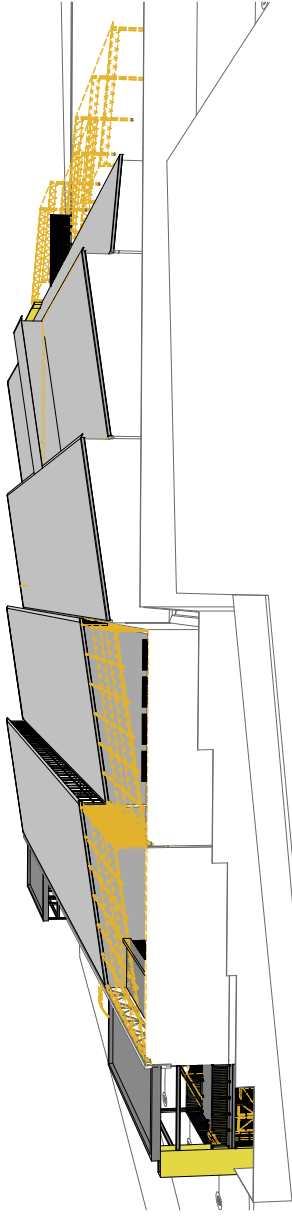
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1:100

Western Elevation - Proposed new work

0305

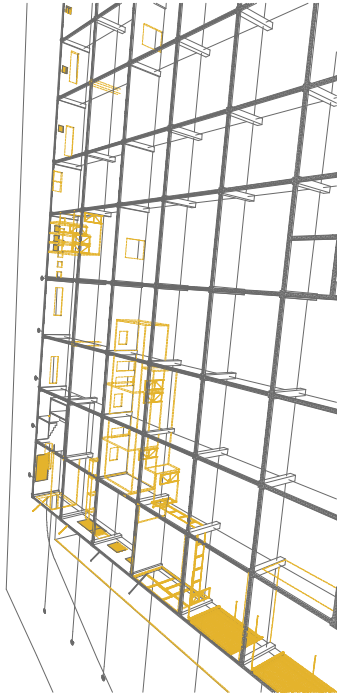
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17.00m	17.00m
18.00m	18.00m
19.00m	19.00m
20.00m	20.00m



P11

Perspective showing demolition

1:100



Elevations	
01	01
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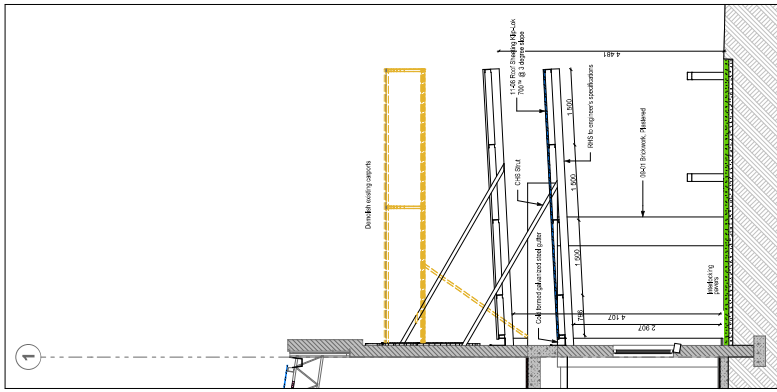


All drawings and dimensions to be checked on site and approved by the Engineer before construction and installation of the structure.

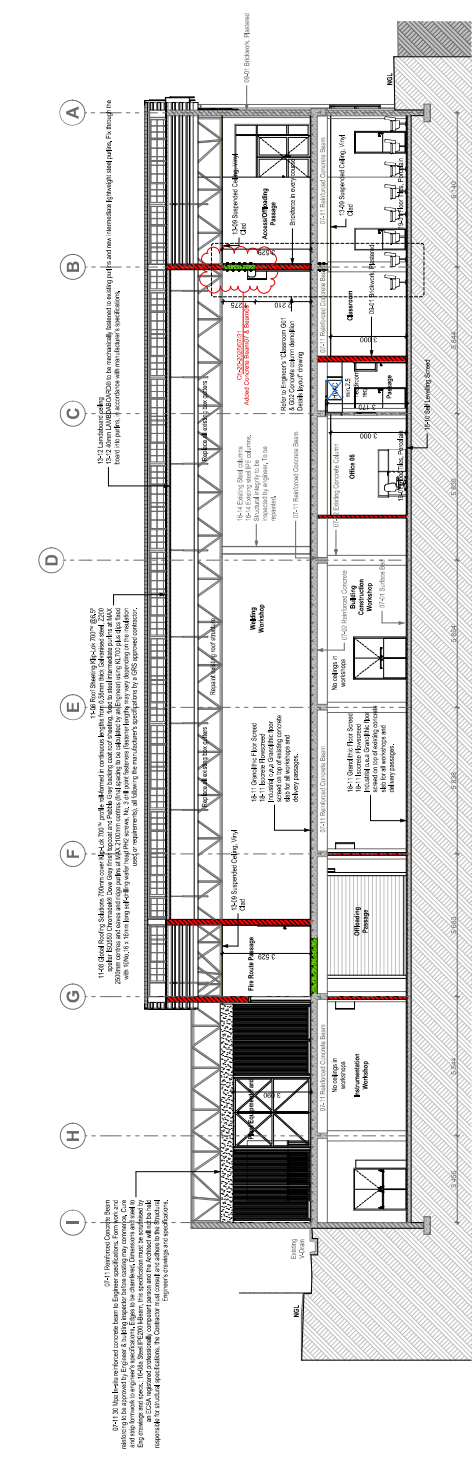
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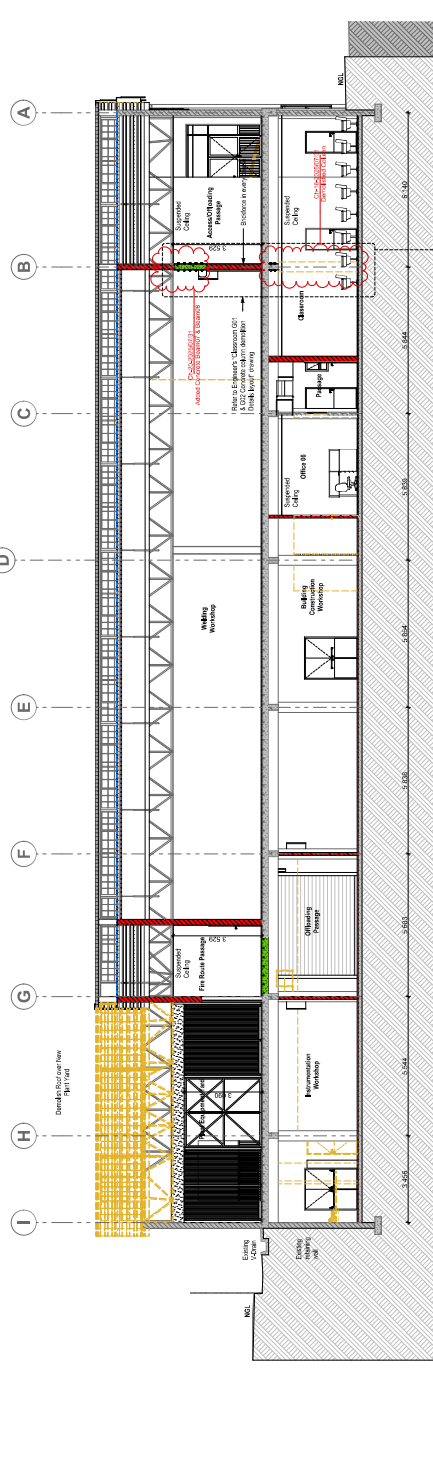
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ARCHITECT
ENGINEER
STRUCTURAL
MECHANICAL
ELECTRICAL
PLUMBING
PAINTING
LANDSCAPE
INTERIOR DESIGN
EXTERIOR DESIGN
ENVIRONMENTAL
SAFETY
QUALITY CONTROL
CONSTRUCTION
OPERATION
MAINTENANCE
REPAIRS
DEMOLITION
DISPOSAL
RECYCLING
ENERGY
WATER
AIR
SOIL
CLIMATE
BIODIVERSITY
CULTURE
HERITAGE
SCIENCE
TECHNOLOGY
INNOVATION
ARTS
SPORTS
RECREATION
ENTERTAINMENT
EDUCATION
HEALTHCARE
INDUSTRY
TRANSPORT
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TELECOMMUNICATIONS
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OPERATION
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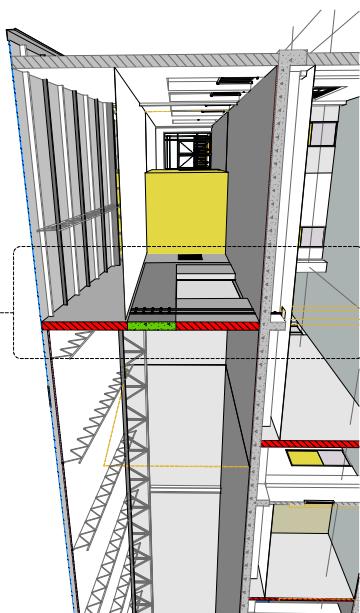
Section D-D 1:50



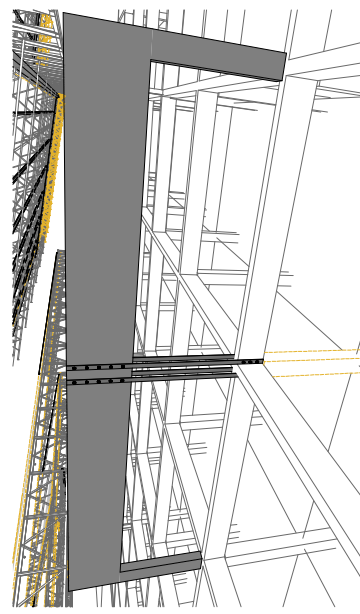
Section A-A 1:100



Section A-A 1:100



Perspective 1:200



Perspective 1:200

P19 Perspective-New Concrete Columns and Beams P20 Perspective

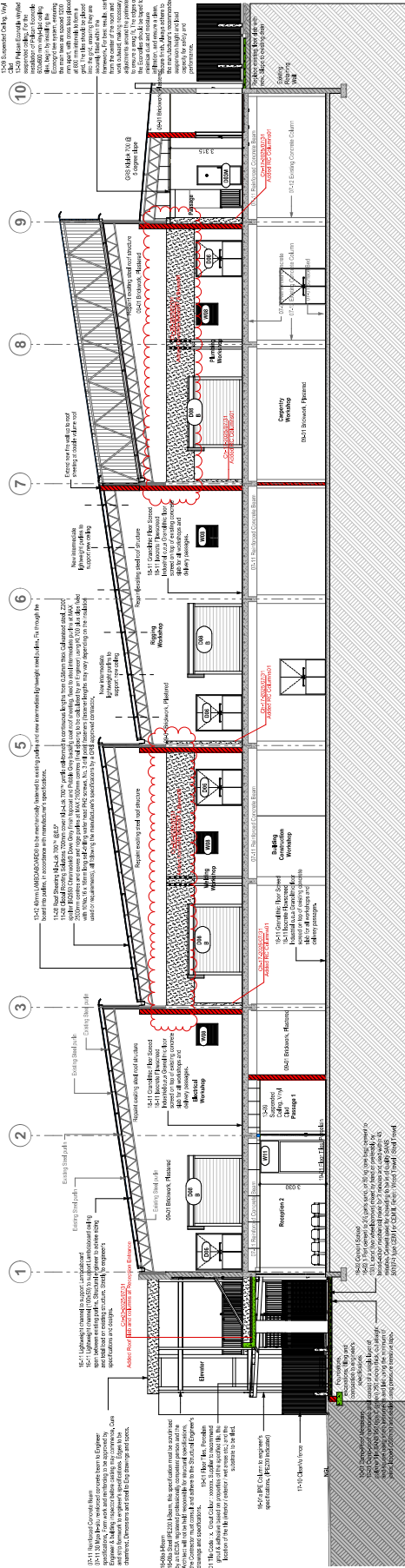
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A2

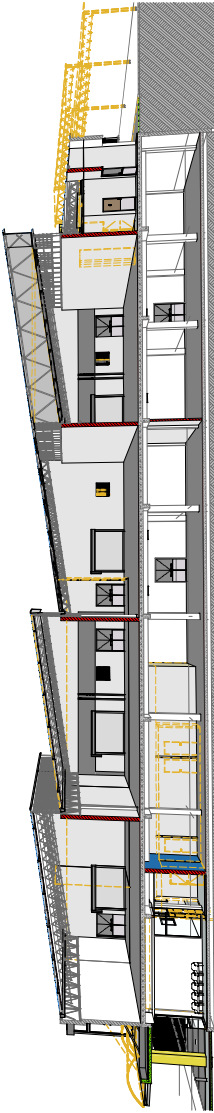
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07	07	07/07/2020	07/07/2020
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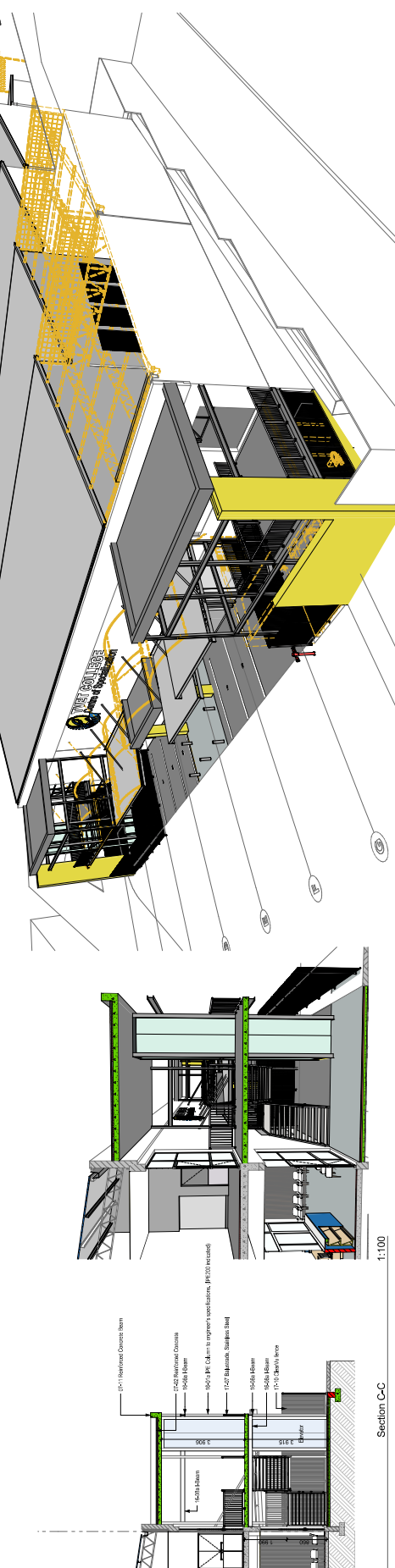
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CLIENT	Barborton TVET College	Barborton TVET College
DESIGNER	Barborton TVET College	Barborton TVET College
DATE	10/10/2020	10/10/2020
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SECTION 100	SECTION 100	SECTION 100



Section B-B 1:100



Section C-C 1:100



Perspective 1:100

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All drawings and dimensions to be checked on site and approved by the architect before any work is carried out. The architect is responsible for the accuracy and compliance of the drawings and dimensions and is not responsible for the accuracy of the information provided by the client.

PROJECT DATA		DRAWING DATA		REVISIONS	
No.	01	Rev.	01	Date	2024/08/01
Project Name		Project Name		Date	2024/08/01
Project Address		Project Address		Date	2024/08/01
Project Contact		Project Contact		Date	2024/08/01

PROJECT DATA		DRAWING DATA		REVISIONS	
No.	01	Rev.	01	Date	2024/08/01
Project Name		Project Name		Date	2024/08/01
Project Address		Project Address		Date	2024/08/01
Project Contact		Project Contact		Date	2024/08/01

Schedules	
PROJECT TEAM	
Architect	Architect
Structural Engineer	Structural Engineer
MEP Engineer	MEP Engineer
Electrical Engineer	Electrical Engineer
Plumbing Engineer	Plumbing Engineer
Fire Engineer	Fire Engineer
Quantity Surveyor	Quantity Surveyor
Project Manager	Project Manager
Client	Client
Contractor	Contractor
Subcontractor	Subcontractor
Supplier	Supplier
Manufacturer	Manufacturer
Distributor	Distributor
Installer	Installer
Maintainer	Maintainer
Inspector	Inspector
Tester	Tester
Verifier	Verifier
Checker	Checker
Approver	Approver
Signatory	Signatory
Witness	Witness
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Barborton TVET College
Centre of Specialization

PROJECT TEAM	
Architect	Architect
Structural Engineer	Structural Engineer
MEP Engineer	MEP Engineer
Electrical Engineer	Electrical Engineer
Plumbing Engineer	Plumbing Engineer
Fire Engineer	Fire Engineer
Quantity Surveyor	Quantity Surveyor
Project Manager	Project Manager
Client	Client
Contractor	Contractor
Subcontractor	Subcontractor
Supplier	Supplier
Manufacturer	Manufacturer
Distributor	Distributor
Installer	Installer
Maintainer	Maintainer
Inspector	Inspector
Tester	Tester
Verifier	Verifier
Checker	Checker
Approver	Approver
Signatory	Signatory
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All drawings and dimensions to be checked on site before construction. The contractor is responsible for the accuracy of the dimensions and for the quality of the work. The architect is not responsible for the accuracy of the dimensions and for the quality of the work.

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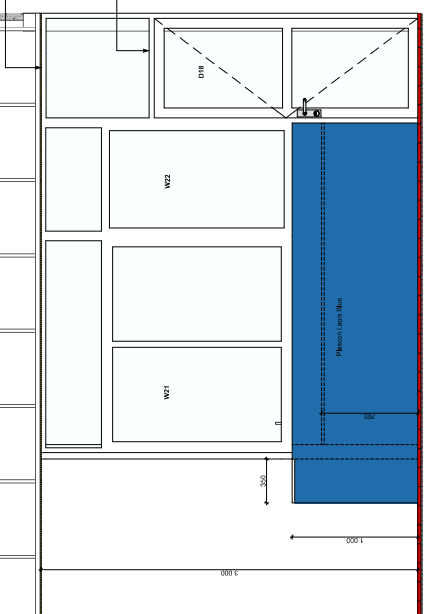
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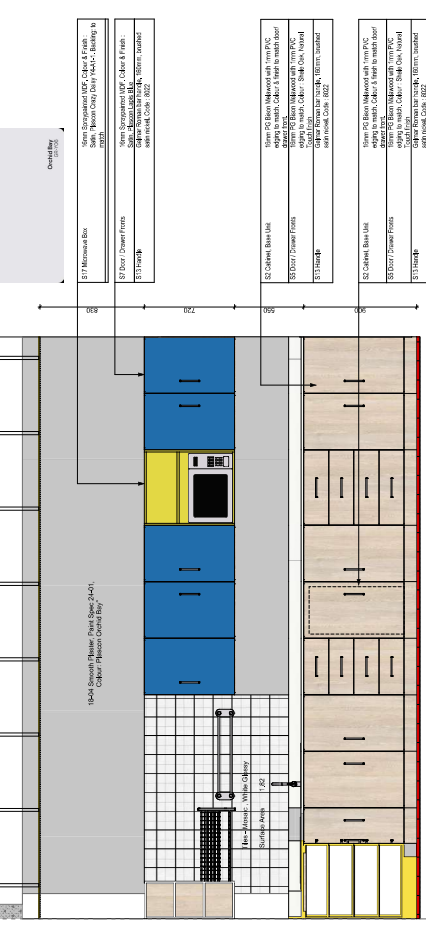
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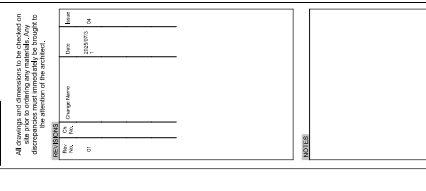
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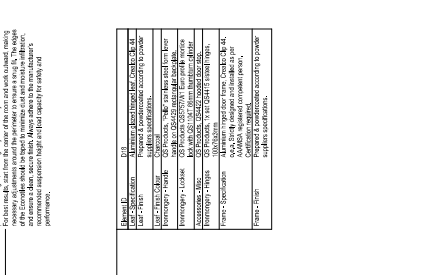
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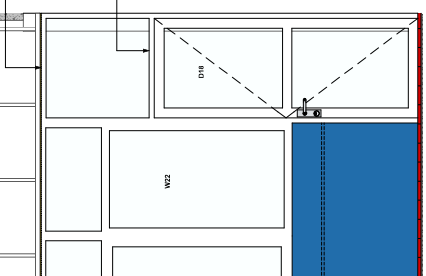
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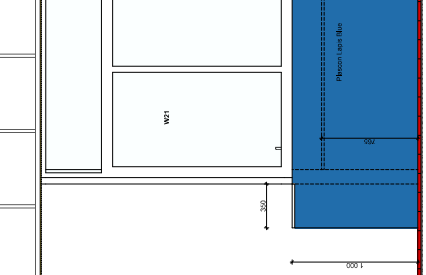
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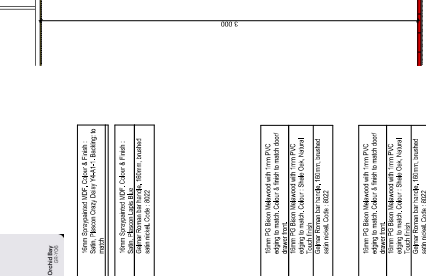
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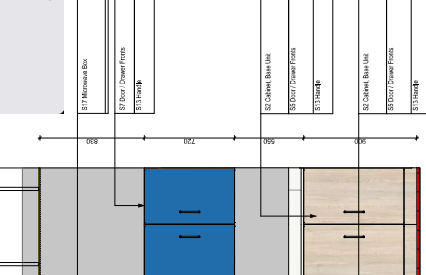
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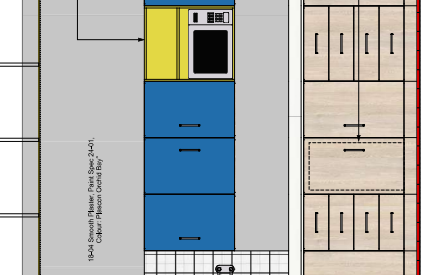
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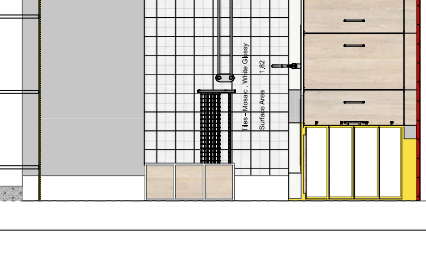
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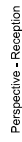
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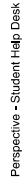
All drawings and dimensions to be checked on site prior to ordering any materials. Any discrepancies must immediately be brought to the attention of the architect.

Responsible	Change Name	Date	Issue
Rev Rev	01	2023/07/25	04

NOTES



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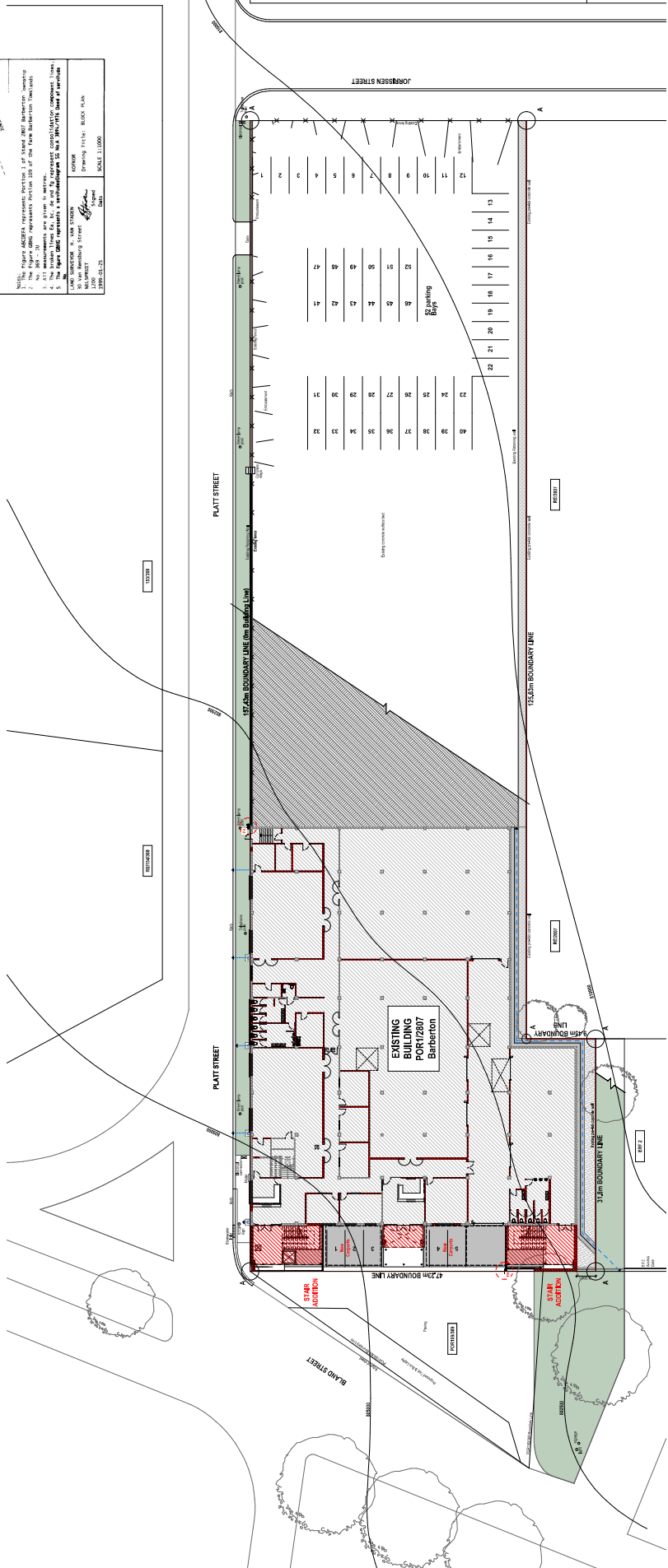


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EHLANZENI TVET COLLEGE

COVID-19 HEALTH AND SAFETY SPECIFICATIONS

FOR

**RENOVATION OF THE DEFY BUILDING FOR EHLANZENI
TVET COLLEGE**

AT

BARBERTON CAMPUS

ANNEXURE A

COVID-19 Health and Safety Specifications

DOCUMENT TILE

HEALTH AND SAFETY SPECIFICATIONS

COVID-19

DECEMBER 2021

PROJECT NAME:	
CLIENT:	
PRINCIPAL AGENT:	
PRINCIPAL CONTRACTOR:	
CONSTRUCTION WORK PERMIT NUMBER	

TABLE OF CONTENTS

DEFINITIONS

1. INTRODUCTION

2. LEGISLATION GOVERNING COVID-19

- Occupational Health and Safety Act No: 85 of 1993 read with Hazardous Biological Agents Regulations
- Occupational Health and Safety Measures in Workplace, gazette No 43257 Department of Employment and Labour Risk Adjusted Strategy for Economic Activity

3. COVID-19 WORKPLACE PREPAREDNESS

4. CONCLUSION

DEFINITIONS

“COVID-19” means Coronavirus Disease 2019;

“Disaster Management Act” means the Disaster Management Act, 2002 (Act No. 57 of 2002);

“OHS Act” means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993);

“PPE” means personal protective equipment;

“Virus” means the SARS-CoV-2 virus;

“Worker” means any person who works in an employer’s workplace including an employee of the employer or contractor, a self-employed person or volunteer;

“Workplace” means any premises or place where a person performs work.

“COID Act” means the Compensation for Occupational Injuries and Diseases Act, No 130 of 1993

“Occupationally-acquired COVID-19” means a disease contracted by an employee as defined in the COID Act arising out and in the course of his or her employment.

1. Introduction

The implementation and monitoring of control measures related to the COVID-19 Virus in the workplace post the countrywide lock down. This document identifies the Health and Specifications that are required of the Principal Contractor (employees, sub-contractors and all service providers) engaged in activities associated with the project

2. Objectives

The objective of the COVID-19 return to Work Health and Safety Specification is to ensure that the Principal Contractor, is prepared to manage COVID-19 with the following priority of objectives:

- To protect the personnel on the project site under his/her control from the risk of infection
- The Health and Safety welfare of all personnel on site
- To ensure that all control and preventative measures of the Hazardous Biological Agent (SARS CoV 2 and COVID-19) are followed.

2.1 Aims

To continue to eliminate and prevent all employees from contracting the COVID-19 virus whilst carrying out their duties and tasks at work.

The OHS Act read in conjunction with the Hazardous Biological Agents Regulations requires the employer to provide and maintain as far as is reasonably practicable a working environment that is safe and without risks to the health of employees. All safe work procedures must be governed by the Act and the various Regulations.

3. Work Preparedness

3.1 Responsibility and Authority

The management team is responsible to the CEO in setting standards and associated objectives, targets in line as referenced by Section 16 of the OHS Act.

Managers, Supervisors and their Occupational Health Safety Representative(s) must monitor compliance for their respective departments and ensure achievement of the objectives in their respective departments in line with and referenced under Section 8 of the OHS Act.

3.2 Site Protocol

The Principal Contractor must ask all employees if any member of their staff is at risk of being sick or carrying illness.

The Principal Contractor must ask these questions:

- Have you, or anyone in your family, been in contact with a person that has tested positive for COVID-19?
 - Have you, or anyone in your family, been in contact with a person that is in the process of being tested for COVID-19?
 - Have you, or anyone in your immediate family, travelled outside of the RSA?
 - Are you having trouble in breathing, dry cough or flu-like symptoms?
- Per recommendations, if any answer is “yes”, the worker must be removed from the jobsite immediately and must not be allowed to return to the jobsite without a doctor’s letter verifying “OK to return to work” status.
 - Safety recommends that employees who appear to have acute respiratory illness symptoms (i.e. cough, shortness of breath) upon arrival to work or become sick during the day must be separated from other employees and be sent home immediately. The Principal Contractor must send any worker home if there are any observed symptoms of sickness.
 - The Principal Contractors are instructed to prevent stigma and discrimination in the workplace. Do not make determinations of risk based on race or country of origin.
 - Stop all non-essential visitors
 - Always introduce staggered start and finish times to reduce congestion and contact
 - Monitor site access points to enable social distancing – you may need to change the number of access points, either increase to reduce congestion or decrease to enable monitoring
 - Require all workers to wash or clean their hands before entering or leaving the site
 - Allow plenty of space (two metres) between people waiting to enter site
 - Regularly clean common contact surfaces of tools and Equipment, access control and deliveries.
 - Reduce the number of people in attendance at site inductions and consider holding them outdoors wherever possible
 - Drivers must remain in their vehicles if the load will allow it and must wash or clean their hands before unloading goods and materials.
 - No large group meetings: limit all meetings to six people or less. The Toolbox safety and DSTI schedule meetings, etc. are to be held with only Supervisor and with personal distance between individuals. (2 Meter)
 - All meetings – Toolbox safety, DSTI schedule, etc. to emphasize personal hygiene and the recommendations to prevent illness.
 - No visitors are permitted to enter Principal Contractor’s workplace, including jobsites, unless fundamental to the execution of the work.

3.3 COVID-19 Measures:

- Employees who are well but who have a sick family member at home and / or have been in close contact with a person with COVID-19 must stay home and notify their supervisor and refer to guidance for how to conduct a risk assessment of their potential exposure.
- If an employee is confirmed to have COVID-19, the Principal Contractor must inform fellow employees of their possible exposure to COVID-19 in the workplace while maintaining confidentiality. All staff must be sent home and the COVID -19 emergency numbers to be phoned. Employees exposed to a co-worker with confirmed COVID-19 must refer to guidance for how to conduct a risk assessment of their potential.
- The Principal Contractor must monitor and respond to absenteeism at the workplace. The Principal Contractor implement plans to continue essential business functions if they experience higher than usual absenteeism.
- The Principal Contractor must cross-train personnel to perform essential functions so that the workplace is able to operate if key staff members are absent.

3.4 Travel Protocol:

The Principal Contractor must advise employees before considering travel to take certain steps:

- Wherever possible workers must travel to site alone using their own transport and sites need to consider:
 - Parking arrangements for additional cars and bicycles
 - Other means of transport to avoid public transport e.g. cycling
 - Providing hand cleaning facilities at entrances and exits. This must be soap and water wherever possible or hand sanitizer if water is not available
- Employees who become sick while travelling or on temporary assignment must notify their supervisor and must promptly call a healthcare provider for advice.
- **The Principal Contractor must enforce a mandatory 14-day self-quarantine upon returning from travel outside South Africa and potentially domestic locations to be determined.**
- Inform supervisor prior to scheduling any travel.

3.5 Hand Washing:

The Principal Contractor must:

- Provide additional hand washing facilities to the usual welfare facilities if a large spread out site or significant numbers of personnel on site
- Ensure soap and fresh water is readily available and kept topped up at all times
- Provide hand sanitizer where hand washing facilities are unavailable
- Regularly clean the hand washing facilities and check soap and sanitizer levels
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal. Sites will need extra supplies of soap, hand sanitizer and paper towels and these must be securely stored.

3.6 Toilet Facilities

The Principal Contractor must:

- Restrict the number of people using toilet facilities at any one time e.g. use a welfare attendant
- Ensure that all employees wash hands before and after using the facilities.
- Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush.
- Avoid the use of portable toilets wherever possible, but where in use these must be cleaned and emptied more frequently.
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal.

3.7 Eating Arrangements

The Principal Contractor must ensure that:

- Dedicated eating areas is identified on site to reduce food waste and contamination
- Break times are staggered to reduce congestion and contact at all times
- Hand cleaning facilities or hand sanitizer are available where people eat and are used by workers when entering and leaving the area
- The workforce must be asked to bring pre-prepared meals and refillable drinking bottles from home
- Workers must seat 2 meters apart from each other whilst eating and avoid all contact
- Drinking water must be provided with enhanced cleaning measures of the tap mechanism introduced
- All rubbish must be put straight in the bin and not left for someone else to clear up
- All areas used for eating are thoroughly cleaned at the end of each break and shift.

3.8 Cleaning

The Principal Contractor must ensure that enhanced cleaning procedures are in place across the site, particularly in communal areas and at touch points including:

- Taps and washing facilities,
- Toilet flush and seats
- Door handles and push plate
- Machinery and equipment controls
- Telephone equipment (Cell Phones)

3.9 Training

The Principal Contractor must ensure that a training matrix is composed and completed for all management and staff, aimed specifically at the control and prevention of the COVID-19 Virus.

Subject matter must include but are not limited to:

- Symptoms
- Training
- Monitoring
- Social distancing

- PPE usage

The Principal Contractor must also ensure that all management and staff undertake the specific training prior to the re-commencement of work activities. Proof of training must be maintained by way of registers

3.10 Security

Security staff must be instructed not to allow entry to anyone who does not comply with all the requirements listed below – should a driver and / or helper be found to exceed the guidelines on body temperature, they too must be denied access individually.

Suppliers must ensure that they provide and issue the required PPE to all personnel:

- Drivers and helpers must wear masks
- Drivers and helpers must wear protective gloves
- Drivers and helpers to wear hair coverings
- Drivers and helpers are required to wash their hands thoroughly on entry to the premises
- Drivers and helpers must be screened for body temperature on entry at the gate.

All employees must be screened for body temperature on entering the site by security personnel.

All employees are required to wash their hands on entering the site – alternatively – spray your hands with a sanitizer.

3.11 PPE

While engineering and administrative controls are considered effective in minimizing exposure to COVID-19, PPE is the primary medium to prevent exposures. Remember that the virus is passed on through person-to-person contact.

No persons are allowed to enter the premises without the wearing of appropriate and published PPE requirements.

Examples of PPE include gloves, goggles, face shields, face masks, gowns, aprons, coats, overalls, hair and shoe covers and respiratory protection, when appropriate.

- Masks

Masks are compulsory for all employees; personnel and professional team members, reducing the potential of inhaled COVID-19 droplets. For general administration purposes, for essential staff on site only, cloth masks may be worn. N95 masks are only to be worn by first aiders or high-risk workers, due to the national shortage thereof.

All employees to have access to N95 or FFPT2 masks when required, only in instances of HIGH RISK OF EXPOSURE

All N95 and FFPT2 masks to be disposed with or after 1 day's use. Induction must also include training on the correct use of face masks.

Cloth face masks must be used on entering and leaving the site. It is advised that each worker is supplied with at least 3 cloth face masks. This would assist ensuring that the masks are hygienic (1 on the face; 1 in the wash and 1 as a backup).

The Principal Contractor must ensure that sufficient stock is at all-time available on site. This will also have depended on the type of mask being issued.

All disposable masks are biological waste and must be properly disposed of. This must be disposed in container (locked) or in bags to be either removed as medical biological waste by registered service provider.

CLEARLY IDENTIFIABLE BINS INDICATING BIOLOGICAL WASTE MUST BE PROVIDED

- Face Shields

The principal contractor could also look at options such as full face shields for preventing spreading of virus through eyes. This would assist the employee who is doing hard physical work to breathe more easily but still protecting the mouth, eyes and nose.

Face shields must be cleaned daily before the shift and at the end of the shift. Proper cleaning agents/disinfectant must be used. Face shields must be issued to employees and no sharing is allowed.

- Overalls

All employees must be issued with 3 overalls (1 overall wearing; 1 overall in the wash and one as the backup). This will ensure that the employee will be able to wear clean hygienic overalls. This must form part of the COVID-19 training for all employees.

- Hand Gloves

It is preferable that surgical gloves are not worn unless indicated and workers trained in the proper use thereof. Gloves must only be used when the activity demand the wearing of specific type of hand gloves. This must be directed by the Principal Contractor's risk assessment.

Site office personnel must be made aware of the risks in the office environment, this includes the handling of documents and plans. These employees must be issued with the appropriate hand gloves or sufficient hand wash / sanitizing facilities must be available in the site office.

3.12 Auditing

Auditing of this guidance as well as specific health and safety requirements under the OHS Act will be undertaken on a weekly basis.

- Non-Compliance by individuals will result in immediate suspension from work activities.
- Verbal and written warnings will be issued, and could result in permanent loss of employment

3.13 Communication

It is of utmost important that daily toolbox talks are conducted, in order to keep staff abreast of any issues, developments and changes implemented by Government, the Company and local communities.

Notices must be posted in prominent locations should any changes and recommendations be implemented coming out of any safety meetings

a. Access rules

The Principal Contractor must install additional signage with site rules specific to the prevention of spreading the COVID-19 virus at the access control points of the site.

b. Notices/Posters with protocols

Notices and posters must be placed and installed to raise awareness and regarding protocols to be followed on site. These notices and posters must be placed conspicuously at various points on the site including the following places:

- Entrance
- Site notice board
- Site Office
- Eating areas
- Next to toilets and bathrooms
- Hand washing stations
- Storerooms

Signage must be posted in and around the work areas as well as in ablutions and change rooms as per the samples below:



3.14 Risk Assessment

The Principal Contractor must ensure that they review and update risk assessments on a regular basis. The object of conducting or updating a risk assessment in respect of COVID-19 is to provide specific focus on COVID-19 specific working environments.

	Baseline Risk Assessment Prevention of Contacting Corona Virus – COVID 19	BRA 01
	Safety, Health and Environment	Version 1

Risk Evaluation Table					Persons at Risk	Risk Factors	
Likelihood of Harm Occurring		2 Remote	4 Possible	6 Probable			
Severity of Injury or Harm	6 Fatal / Major Injury	M	M	H	E – Employees C – Contractors O – Others i.e. Members of the Public / Clients employees	25 → 36	High Risk. Intolerable, eliminate, Safety Method Statements to reduce risk to a tolerable level.
	4 Reportable Injury	L	M	M		12 → 24	Medium Risk. Tolerable only with the full implementation of all of the control measures identified below
	2 First Aid or Minor Injury	L	L	M		1 → 11	Low Risk. Reduce risk further where cost and time allows. Maintain all basic disciplines and controls.
		Likelihood	Severity	Risk Factor	Notes/Comment on Evaluation		
Potential Health Risk		6	6	36	Extremely High Risk – could lead to death		
Potential Ergonomic Risk		2	2	4	Ensure sufficient spacing and avoid close contact between employees		
Environmental Risk		2	2	4	Waste Disposal of used tissues/masks/gloves		

3.15 Demographics of Labour

The Principal Contractor must compile a demographic record of all their staff.

- Age of staff / labour, a procedure to take cognizance of the worker / staff in high risk categories e.g. 60+ and those with underlying medical risks
- Health Status, a record of the persons health conditions specifically those that have been identified as causing complications when infected with COVID-19 Virus
- Socio economic status of the workforce, this may have an impact of the transmission of the COVID-19 virus either from site to the home environment or from home to the workplace.

3.16 Hand and Powered Tools

The Principal Contractor must provide for and ensure the sanitization of all tools on site.

- No sharing of tools, unless they are sanitized between users
- All tools returned to stores are to be sanitized before storage.
- All tools are to be sanitized before being placed in tool bags / boxes
- All tools issued are to be sanitized in front of the recipient prior to issuing.
- All sub-contractors' tools are to be sanitized when accessing / egressing site and prior to the tools being used / stored.

3.17 Plant

The Principal Contractor must provide for and ensure that all plant on site and all plant and transport accessing the site has been sanitized.

- No unauthorized passengers permitted on mobile plant.
- All touch surfaces to be cleaned frequently during the day with disinfectants.
- Before changing operators / drivers the cab must be cleaned with disinfectant solution.
- Records of operator / driver changes to be kept with register of sanitization.
- All touch surfaces to be sanitized at the end of shift

3.18 Procurement and Storage for COVID-19 PPE and General Supplies

- Availability of personal protective equipment PPE is an imperative and should be available at all times. Where this is not so, the work related to the activity will be stopped until adequate supplies are available.
- Storage of PPE is to be tightly controlled, with records of issue. Damaged PPE is to be managed in the usual way but all to be disposed of as if contaminated.

3.19 Waste Management for COVID-19 Waste

Waste management arrangements must be updated to include provision for the disposal of additional waste generated due to preventative measures implemented. All waste must be managed as hazardous waste.

- Disposal of any gloves, masks

The Principal Contractor must dispose of all used gloves and masks as hazardous waste and provide sealable bags and containers for the safe disposal of this waste.

- Paper towels

The Principal Contractor must provide adequate supplies of paper towels on site. At points where these towels are provided lined waste bins to be placed in order to collect all used towels and then to be disposed of in hazardous waste.

- Disinfectant solution

The Principal Contractor must provide adequate supplies of disinfectant on site where the use of water and soap for cleaning is not practical. If disinfectant dispensers are not refilled it must be disposed with other hazardous waste.

- Wastewater

Wastewater at washing points, toilets, and bathrooms must be contained in a drainage system that prevent surface spills. If wastewater is contained in waste buckets it must be sealed when removed and disinfected after it is cleaned.

3.20 Emergency Planning

An updated emergency plan must be completed that is in line with the current Regulations of the National Disaster Management Act.

- First aid Extra gloves, and disinfectants must be available, first aiders are to be issued with at least FFPT2 masks should they be required to respond
- Evacuation plans Evacuation plans must consider social distancing.
- Isolation of potentially infected workers

The emergency plan must consider how anyone who arrives on site and displays any of the symptoms, or has a raised temperature.

3.21 Social Distancing at work

The lockdown restrictions may be eased down but that does not mean that there is no need for social/physical distancing anymore.

You spend 8-9 hours at work and must maintain a proper distance from everyone during this time, whether they are symptomatic or asymptomatic. There are no exceptions to this rule.

Appropriate social distancing must be implemented and a 2 meters distance to be maintained. Where this is not possible due to the nature of the task additional PPE to prevent or reduce the risk of transmission must be issued and the use of the additional measures must be enforced.

These measures must include but not limited to:

- Training and education on how to reduce the transmission of COVID-19
- Provision of adequate supplies of PPE
- Monitoring and managing the use of PPE
- Training on the care and washing requirements
- Sanitizing and washing facilities for workers to provide in the immediate vicinity of where the task has been completed
- Facilities to be provided for the sanitization of PPE where PPE is used by multiple uses

3.22 Offices, Common areas and Facilities

The Principal Contractor must compile and implement a program for the systematic sanitization of all offices and common areas.

- Common areas must to be sanitized before and after use
- Offices must be sanitized daily.
- Shared offices where the required level of social distancing cannot be maintained, the occupancy numbers must be reduced and the remaining occupants must wear the prescribed PPE at all times.
- Door handles and other touch areas must be sanitized after each use.
- No sharing of office equipment e.g. computers
- No sharing of cell phones or other communication devices
- No preparation of meals permitted on site

3.23 Notice on Compensation for Occupationally-Acquired Novel Corona Virus Disease (COVID-19)

This notice deals with occupationally-acquired COVID-19 resulting from single or multiple exposures to confirmed cases(s) of COVID-19 in the workplace or after an official trip to high-risk countries or areas in a previously COVID-19 free individual.

The Principal Contractor can claim for occupationally-acquired COVID-19 shall be set out as contemplated in and provided for sections 65 and 66 of the COID Act.

The Office of the Compensation Commissioner shall consider and adjudicate upon the liability of all claims. The Medical Officers in the Compensation Commissioners' Office are responsible for medical assessment of the claim and for the confirmation of the acceptance or rejection of the claim.

The following documentation must be submitted to the Compensation Commissioner

- Employer Report of an Occupational Disease (W.CL.1)
- Notice of an Occupational Disease & Claim for Compensation (W.CL.14)
- Exposure and Medical Questionnaire
- First Medical Report in respect of an Occupational Disease (W.CL.22)
- Exposure history (W.CL.110) and/or any other employment history
- A medical report from Doctor and / or Specialist

4. Conclusion

4.1 General Protocol:

The Principal Contractor must actively encourage sick employees to stay home:

- a. If employees or subcontractor employees are exhibiting any of the following symptoms or behaviour associated with these symptoms, they must be asked to leave the jobsite and/or office and call (or go to) the doctor:
 - i. Fever
 - ii. Cough
 - iii. Shortness of breath
- b. Employees who have symptoms of acute respiratory illness are required to stay home and not come to work until they are free of fever (100.4° F [37.8° C] or greater using an oral thermometer), signs of a fever, and any other symptoms for at least 48 hours, without the use of fever-reducing or other symptom-altering medicines (e.g. Tylenol, cough suppressants). Employees must immediately notify their supervisor and stay home if they are sick.
- c. The Principal Contractor must communicate with their subcontractors and temporary staffing companies about the importance of sick employees staying home and/or going to the doctor.
- d. Per Safety recommendations, employees who appear to have acute respiratory illness symptoms (i.e. cough, shortness of breath) upon arrival to work or become sick during the day must be separated from other employees and be sent home immediately. Register must be in place for traceability of when and where employ may be in contact been with employees, public or other Contractors.
- e. The Principal Contractor must communicate the following to its employees and sub-contractors:

- i. Serious respiratory illnesses like influenza, respiratory syncytial virus (RSV), whooping cough, and severe acute respiratory syndrome (SARS) and COVID-19 are spread by:
 1. Coughing or sneezing
 2. Unclean hands: Touching your face after touching contaminated objects and touching objects after contaminating your hands
- ii. To help stop the spread of germs:
 1. Cover your mouth and nose with a tissue when you cough or sneeze.
 2. Put your used tissue in a waste basket.
 3. If you don't have a tissue, cough or sneeze into your upper sleeve, not your hands.
 4. Remember to wash your hands or sanitize after coughing or sneezing
 5. Avoid unnecessary contact with others
- iii. Use disposal paper tissue and no-touch disposal trash receptacles.
- iv. Clean hands often with an alcohol-based hand sanitizer that contains at least 70% alcohol, or wash hands with soap and water for at least 20 seconds. Soap and water should be used preferentially if hands are visibly dirty.
- v. Perform routine environmental cleaning:
 1. Routinely clean all frequently touched surfaces in the workplace, such as workstations, countertops, and doorknobs. Use the cleaning agents that are usually used in these areas and follow the directions on the label.
 2. Use disposable wipes so that commonly used surfaces (for example, doorknobs, keyboards, remote controls, desks) can be wiped down by employees before each use.



#coronavirus



a) Information on Coronavirus COVID-19

WhatsApp: Say "Hi" to 0600 123 456

For medical enquiries: National Institute for Communicable Diseases 0800 029 999

4.2 HEALTH AND SAFETY PROTOCOLS TO BE IN PLACE- BEFORE OPENING OF SITE

The Principal Contractor must:

1. Appoint a COVID-19 Compliance Officer
The appointed person must prepare a **COVID-19 Specific Health and Safety File** and monitor the implementation. The file must contain these minimum contents:
 - a. Emergency Contact numbers (Health and Safety Practitioner, NCID Hotline, Rob Ferreira Hospital) must be available in the file and displayed on site.
 - b. COVID-19 Policy
 - The policy must include the company's input and commitment towards psychosocial stressors (living with COVID-19, Stigma of persons who test positive and return to work exposure.
 - The policy must be reviewed and approved by the C.E.O
 - c. Biohazard Risk Assessment (must be prepared by a competent Risk assessor)
 - d. Procedures for medical screening
 - e. Medical Surveillance procedure and fitness for duty certificates
 - f. Induction training manual and communication registers
 - g. Awareness training and communication registers (e.g. COVID-19 Symptoms, Washing of hands, Hand sanitizer Use, etc.)
 - h. Procedures on how to deal with a suspected or confirmed case
 - i. COIDA Reporting procedure and forms
 - j. COVID-19 Incident Management
 - k. Visitors Contact Tracing Forms
 - l. Personal Protective Equipment Register (respiratory protection, face shields, etc.)
 - m. Facilities daily inspection checklists (hand washing soap, clean water, hand sanitizer
 - n. Copies of all regulations/government gazettes issued in terms of COVID-19
 - The above list is not exhaustive, the Principal Contractor can add the contents as and when the government issues updates

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