



IN/37/2022.

**Upgrading of the Stadium Facilities at the University of Venda,
Thohoyandou, Limpopo Province
(CIDB GRADING NO: 7GB or higher)
VOLUME 2 OF 2**

BSC MEMBERS	SIGNATURE	DATE OF APPROVAL
Chairperson		
SCM		
Technical (End User)		
Legal Department		

PROCUREMENT DOCUMENT

(Based on NEC3 Engineering and Construction Contract)

Date of Issue: 23 November 2022

Issued by:

Director Facilities Management

University of the Venda, Thohoyandou

Name of tenderer:

Telephone Number:

Email Address:

Fax Number:

Cellphone Number:

Closing date: AS PER TENDER INVITATION

PREAMBLES FOR TRADE



PREAMBLES FOR TRADES

1. MODEL PREAMBLES FOR TRADES

The "Specification of Materials and Methods to be used - PW371" as issued by the Department of Public Works shall apply and shall be deemed to be incorporated herein.

The Bidders are referred to the above-mentioned document for the full description of materials to be used and work to be executed.

A copy of the above-mentioned document is available at the offices of the Principal Agent for inspection.

2. VARIATIONS AND/OR ADDITIONS TO MODEL PREAMBLES FOR TRADES

2.1 All work to be done in accordance to the detailed specification as per the Engineers and Architects drawings.

2.2 Where variations and/or additions to Model Preambles differ from Clauses contained in the "Specification of Materials and Methods to be used - PW371", the variations and/or additions to Preambles shall take precedence.

3. MATERIALS AND WORKMANSHIP

Materials and workmanship shall be the best of their respective kinds. Only undamaged materials may be used in the works. Work shall be to the satisfaction of the Architect/Engineer and shall be executed in accordance with good building practice and the relevant Manufacturer's instruction. Where the term "approved" is used in connection with materials and workmanship, it shall mean that such materials shall be to the approval, instructions or choice of the Architect.

4. STANDARD SPECIFICATIONS

Materials and Workmanship shall comply with the Standard Building Regulations (SBR), National Building Regulations (NBR), SABS1200, the specifications and codes of practice of the South African Bureau of Standards, and CSIR recommendations. In cases of variance, these "Specification of Materials and Methods to be used - PW371" and any supplementary preambles thereto shall have precedence over the above-mentioned regulations, specifications and codes of practice. In cases of variance between the SBR and NBR, the NBR shall have precedence.

The latest issues of the above-mentioned regulations, specifications and codes of practice, as well as those of any other specifying body, to which reference is made, shall be applicable.

References to standard specifications and/or building regulations in these "Specification of Materials and Methods to be used - PW371" are for the information of the Contractor and shall in no way relieve him of his obligations under the Contract.

SECTION 1: PRELIMINARIES

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<p><u>SECTION 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p>i) The NEC3 Engineering and Construction Contract Option B: Priced contract with bill of quantities (Third edition of June 2005 reprinted in April 2013) in conjunction with the Contract Data is taken to be incorporated herein</p> <p>ii) The tenderer is deemed to have taken cognizance of the above mentioned documents for the full intent and meaning of each clause. These clauses are referred to by clause number and heading only</p> <p>iii) The amount of Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum and the amount for Preliminaries</p> <p>iv) Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in (iii) but taking into account the revised period for completing the works</p>			
	Carried to Collection			R
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**UPGRADING OF THE STADIUM
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v) The amount or the items of the Preliminaries are adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Bills of Quantities:

- a) an amount which is not varied, namely fixed
- b) an amount which is varied in proportion to the contract value, namely value related; and
- c) an amount which is varied in proportional to the construction period as compared to the initial construction period excluding revisions to the construction period for which the contractor is not entitled to adjustment in terms of the contract, namely Time Related

Where no provision is made in Bills of Quantities to indicate which of the three categories in (v) apply or where no selection is made, the adjustments shall be based on the following breakdown:

- a) 10 percent is Fixed
- b) 15 percent is Value related
- c) 75 percent is Time Related

The adjustments of the Preliminaries shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminaries shall exclude any contingency sum and the amount for Preliminaries

SECTION A: CONDITIONS OF CONTRACT

CORE CLAUSES

GENERAL

Action (clause 10)

Actions (clause 10.1)

1

Fixed Related

Item

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2	Value Related	Item	
3	Time Related	Item	
<u>Identified and defined terms (clause 11)</u>			
Condition of contract (clause 11.1)			
4	Fixed Related	Item	
5	Value Related	Item	
6	Time Related	Item	
Defined terms (clause 11.2)			
7	Fixed Related	Item	
8	Value Related	Item	
9	Time Related	Item	
<u>Interpretation and the law (clause 12)</u>			
Interpretation of the law (clause 12.1 - 12.4)			
10	Fixed Related	Item	
11	Value Related	Item	
12	Time Related	Item	
<u>Communication (clause 13)</u>			
Communication (clause 13.1 - 13.8)			
13	Fixed Related	Item	
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14	Value Related	Item	
15	Time Related	Item	
<u>The Project Manager and the Supervisor (clause 14)</u>			
The Project Manager and the Supervisor (clause 14.1 - 14.4)			
16	Fixed Related	Item	
17	Value Related	Item	
18	Time Related	Item	
<u>Adding to the Working Areas (clause 15)</u>			
Adding to the Working Areas (clause 15.1)			
19	Fixed Related	Item	
20	Value Related	Item	
21	Time Related	Item	
<u>Early Warning (clause 16)</u>			
Early Warning (clause 16.1 - 16.4)			
22	Fixed Related	Item	
23	Value Related	Item	
24	Time Related	Item	
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Ambiguities and inconsistencies (clause 17)

Ambiguities and inconsistencies (clause 17.1)

25	Fixed Related	Item
26	Value Related	Item
27	Time Related	Item

Illegal and impossible requirements (clause 18)

Illegal and impossible requirements (clause 18.1)

28	Fixed Related	Item
29	Value Related	Item
30	Time Related	Item

Prevention (clause 19)

Prevention (clause 19.1))

31	Fixed Related	Item
32	Value Related	Item
33	Time Related	Item

**THE CONTRACTOR'S MAIN
RESPONSIBILITIES**

Providing the Works (clause 20)

Providing the Works (clause 20.1)

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34	Fixed Related	Item	
35	Value Related	Item	
36	Time Related	Item	
<u>The Contractor's design (clause 21)</u>			
The contractor's design (clause 21.1 - 21.3)			
37	Fixed Related	Item	
38	Value Related	Item	
39	Time Related	Item	
<u>Using the Contractor's design (clause 22)</u>			
Using the Contractor's design (clause 22.1)			
40	Fixed Related	Item	
41	Value Related	Item	
42	Time Related	Item	
<u>Design of Equipment (clause 23)</u>			
Design of Equipment (clause 23.1)			
43	Fixed Related	Item	
44	Value Related	Item	
45	Time Related	Item	
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People (clause 24)

People (clause 24.1 - 24.2)

46	Fixed Related	Item
47	Value Related	Item
48	Time Related	Item

Working with the Employer and Others (clause 25)

Working with the Employer and Others (clause 25.1 - 25.3)

49	Fixed Related	Item
50	Value Related	Item
51	Time Related	Item

Sub-contracting (clause 26)

Sub-contracting (clause 26.1 - 26.3)

52	Fixed Related	Item
53	Value Related	Item
54	Time Related	Item

Other responsibilities (clause 27)

Other responsibilities (clause 27.1 - 27.4)

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55	Fixed Related	Item	
56	Value Related	Item	
57	Time Related	Item	
<u>TIME</u>			
<u>Starting, Completion and Key dates (clause 30)</u>			
Starting date (clause 30.1)			
58	Fixed Related	Item	
59	Value Related	Item	
60	Time Related	Item	
Completion date (clause 30.2)			
61	Fixed Related	Item	
62	Value Related	Item	
63	Time Related	Item	
Key date (clause 30.3)			
64	Fixed Related	Item	
65	Value Related	Item	
66	Time Related	Item	
<u>The Programme (clause 31)</u>			
The Programme (clause 31.1 - 31.3)			
67	Fixed Related	Item	
68	Value Related	Item	
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69	Time Related	Item	
<u>Revising the programme (clause 32)</u>			
Revising the programme (clause 32.1 - 32.2)			
70	Fixed Related	Item	
71	Value Related	Item	
72	Time Related	Item	
<u>Access to and use of the Site (clause 33)</u>			
Access to and use of the Site (clause 33.1)			
73	Fixed Related	Item	
74	Value Related	Item	
75	Time Related	Item	
<u>Instruction to stop or not to start work (clause 34)</u>			
Instruction to stop or not to start work (clause 34.1)			
76	Fixed Related	Item	
77	Value Related	Item	
78	Time Related	Item	
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Take over (clause 35)

Take over (clause 35.1 - 35.3)

79	Fixed Related	Item
80	Value Related	Item
81	Time Related	Item

Acceleration (clause 36)

Acceleration (clause 36.1 - 36.3)

82	Fixed Related	Item
83	Value Related	Item
84	Time Related	Item

TESTING AND DEFECTS

Testing and inspections (clause 40)

Testing and inspections (clause 40.1 - 40.6)

85	Fixed Related	Item
86	Value Related	Item
87	Time Related	Item

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Testing and inspections before delivery (Clause 41)

Testing and inspection before delivery (clause 41.1)

88	Fixed Related	Item
89	Value Related	Item
90	Time Related	Item

Searching for and notifying Defects (Clause 42)

Searching for and notifying Defects (Clause 42.1 - 42.2)

91	Fixed Related	Item
92	Value Related	Item
93	Time Related	Item

Correcting Defects (Clause 43)

Correcting Defects (Clause 43.1 - 43.4)

94	Fixed Related	Item
95	Value Related	Item
96	Time Related	Item

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Accepting Defects (clause 44)

Accepting Defects (clause 44.1 - 44.2)

97	Fixed Related	Item
98	Value Related	Item
99	Time Related	Item

Uncorrected Defects (clause 45)

Uncorrected Defects (clause 45.1 - 45.2)

100	Fixed Related	Item
101	Value Related	Item
102	Time Related	Item

PAYMENT

Assessing the amount due (clause 50)

Assessing the amount due (clause 50.1 - 50.5)

103	Fixed Related	Item
104	Value Related	Item
105	Time Related	Item

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Payment (clause 51)

Payment (clause 51.1 - 51.4)

106	Fixed Related	Item
107	Value Related	Item
108	Time Related	Item

Defined Cost (clause 52)

Defined Cost (clause 52.1)

109	Fixed Related	Item
110	Value Related	Item
111	Time Related	Item

The Bills of Quantities (clause 55)

The bills of quantities (clause 55.1)

112	Fixed Related	Item
113	Value Related	Item
114	Time Related	Item

COMPENSATION EVENTS

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Compensation events (clause 60)

Compensation events (clause 60.1 - 60.7)

115	Fixed Related	Item
116	Value Related	Item
117	Time Related	Item

Notifying compensation events (clause 61)

Notifying compensation events (clause 61.1 - 61.7)

118	Fixed Related	Item
119	Value Related	Item
120	Time Related	Item

Quotation for compensation events (clause 62)

Quotation for compensation events (clause 62.1 - 62.6)

121	Fixed Related	Item
122	Value Related	Item
123	Time Related	Item

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Assessing compensation events (clause 63)

Assessing compensation events (clause 63.1 - 63.13)

124	Fixed Related	Item
125	Value Related	Item
126	Time Related	Item

The Project Manager's assessment (clause 64)

The Project Manager's assessment (clause 64.1 - 64.4)

127	Fixed Related	Item
128	Value Related	Item
129	Time Related	Item

Implementing compensation events (clause 65)

Implementing compensation events (clause 65.1 - 65.4)

130	Fixed Related	Item
131	Value Related	Item
132	Time Related	Item

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<u>TITLE</u>			
<u>The Employer's title to Plant and Materials (clause 70)</u>			
Plant and Materials outside the working area (clause 70.1)			
133	Fixed Related	Item	
134	Value Related	Item	
135	Time Related	Item	
Plant and Materials within the working area (clause 70.2)			
136	Fixed Related	Item	
137	Value Related	Item	
138	Time Related	Item	
<u>Marking Equipment, Plant and Materials outside Working Areas (clause 71)</u>			
Marking Equipment, Plant and Materials outside Working Areas (clause 71.1)			
139	Fixed Related	Item	
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Employer's risk (clause 80)

Employer's risk (clause 80.1)

148	Fixed Related	Item
149	Value Related	Item
150	Time Related	Item

Contractor's risk (clause 81)

Contractor's risk (clause 81.1)

151	Fixed Related	Item
152	Value Related	Item
153	Time Related	Item

Repairs (clause 82)

Repairs (clause 82.1)

154	Fixed Related	Item
155	Value Related	Item
156	Time Related	Item

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<u>Indemnity (clause 83)</u>				
Indemnity (clause 83.1- 83.2)				
157	Fixed Related	Item		
158	Value Related	Item		
159	Time Related	Item		
<u>Insurance cover (clause 84)</u>				
Insurance cover (clause 84.1 - 84.2)				
160	Fixed Related	Item		
161	Value Related	Item		
162	Time Related	Item		
<u>Insurance policies (clause 85)</u>				
Insurance policies (clause 85.1 - 85.4)				
163	Fixed Related	Item		
164	Value Related	Item		
165	Time Related	Item		
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If the Contractor does not insure (clause 86)

If the Contractor does not insure (clause 86.1)

166	Fixed Related	Item
167	Value Related	Item
168	Time Related	Item

Insurance by the Employer (clause 87)

Insurance by the Employer (clause 87.1 -87.3)

169	Fixed Related	Item
170	Value Related	Item
171	Time Related	Item

TERMINATION

Termination (clause 90)

Termination (clause 90.1 - 90.5)

172	Fixed Related	Item
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173	Value Related	Item	
174	Time Related	Item	
<u>Reasons for termination (clause 91)</u>			
Reasons for termination (clause 91.1 - 91.7)			
175	Fixed Related	Item	
176	Value Related	Item	
177	Time Related	Item	
<u>Procedures on termination (clause 92)</u>			
Procedures on termination (clause 92.1 - 92.2)			
178	Fixed Related	Item	
179	Value Related	Item	
180	Time Related	Item	
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Payment on termination (clause 93)

Procedures on termination (clause 93.1 - 93.2)

181	Fixed Related	Item
182	Value Related	Item
183	Time Related	Item

MAIN OPTION CLAUSES

DISPUTE RESOLUTION

Option W1

Dispute Resolution (clause W1.1)

184	Fixed Related	Item
185	Value Related	Item
186	Time Related	Item

The Adjudicator (clause W1.2)

187	Fixed Related	Item
188	Value Related	Item
189	Time Related	Item

The Adjudication (clause W1.3)

190	Fixed Related	Item
191	Value Related	Item

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192	Time Related	Item	
	Review by the Tribunal (clause W1.4)		
193	Fixed Related	Item	
194	Value Related	Item	
195	Time Related	Item	
<u>SECONDARY OPTION CLAUSES</u>			
<u>Price adjustment for inflation (Option X1)</u>			
	Defined terms (clause X1.1)		
196	Fixed Related	Item	
197	Value Related	Item	
198	Time Related	Item	
	Price Adjustment Factor (clause X1.2)		
199	Fixed Related	Item	
200	Value Related	Item	
201	Time Related	Item	
	Compensation Event (clause X1.3)		
202	Fixed Related	Item	
203	Value Related	Item	
204	Time Related	Item	
	Price Adjustment (clause X1.4)		
205	Fixed Related	Item	
206	Value Related	Item	
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207	Time Related	Item	
	<u>Changes in the law (Option X2)</u>		
	Changes in the law (clause X2.1)		
208	Fixed Related	Item	
209	Value Related	Item	
210	Time Related	Item	
	<u>Delay damages (Option X7)</u>		
	Delay damages (clause X7.1 - X7.3)		
211	Fixed Related	Item	
212	Value Related	Item	
213	Time Related	Item	
	<u>Performance bond (Option X13)</u>		
	Performance bond (Option X13.1)		
214	Fixed Related	Item	
215	Value Related	Item	
216	Time Related	Item	
	<u>Advanced payment to the contractor (Option X14)</u>		
	Advanced payment to the contractor (Option X14.1 - X14.3)		
217	Fixed Related	Item	
218	Value Related	Item	
219	Time Related	Item	
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**Limitation of the Contractor's liability for his design
to reasonable skill and care (Option X15)**

Limitation of the Contractor's liability for his design to
reasonable skill and care (Option X15.1 - X15.2)

220	Fixed Related	Item
221	Value Related	Item
222	Time Related	Item

Retention (Option X16)

Retention (Option X16.1 - X16.2)

223	Fixed Related	Item
224	Value Related	Item
225	Time Related	Item

Low performance damages (Option X17)

Low performance damages (Option X17.1)

226	Fixed Related	Item
227	Value Related	Item
228	Time Related	Item

Limitation of Liability (Option X18)

Limitation of Liability (Option X18.1 - X18.5)

229	Fixed Related	Item
230	Value Related	Item

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231	Time Related	Item	
<u>CONTRACT DATA</u>			
Contractual Requirements as stated elsewhere in the document			
<u>ESTABLISHMENT OF FACILITIES ON THE SITE</u>			
<u>Facilities for Project Manager</u>			
Furnished offices (In no 1)			
232	Fixed Related	Item	
233	Value Related	Item	
234	Time Related	Item	
Name boards (In no 1)			
235	Fixed Related	Item	
236	Value Related	Item	
237	Time Related	Item	
Offices and storage sheds			
238	Fixed Related	Item	
239	Value Related	Item	
240	Time Related	Item	
<u>Facilities for the contractor</u>			
Living accommodation			
241	Fixed Related	Item	
242	Value Related	Item	
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243	Time Related	Item	
	Ablution and latrine facilities		
244	Fixed Related	Item	
245	Value Related	Item	
246	Time Related	Item	
	Tools and Equipments		
247	Fixed Related	Item	
248	Value Related	Item	
249	Time Related	Item	
	Water supplies, electric power, communication, dealing with water and access		
250	Fixed Related	Item	
251	Value Related	Item	
252	Time Related	Item	
	Other fixed charge obligations		
253	Fixed Related	Item	
254	Value Related	Item	
255	Time Related	Item	
	Removal of site establishment		
256	Fixed Related	Item	
257	Value Related	Item	
258	Time Related	Item	
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**UPGRADING OF THE STADIUM
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Occupational Health and safety

Allow for compliance to Occupational Health and safety specifications including, OHS testing of personnel before commencement and after completion of project, safety equipment and safety officer.

259	Fixed Related	Item
260	Value Related	Item
261	Time Related	Item
Allow for compliance with all COVID 19 Regulations and Requirements		
262	Fixed Related	Item
263	Value Related	Item
264	Time Related	Item

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SECTION 2: ALTERATIONS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item
No

Quantity Rate Amount

SECTION NO.2

BILL NO. 1

STADIUM UPGRADE:

For Preambles refer to "Department of Public Works:
Specification of material and methods to be used -
PW371"

SUPPLEMENTARY PREAMBLES

ALTERATIONS

NATURE OF WORK Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders for any items not specifically mentioned which they may deem necessary for the proper completion of the work. Tenderers are advised that the adjacent existing buildings will be in occupation during the progress of the work and due allowance must be made for the work being carried out at such times and in such manner as will least interfere with the routine of the occupants and as may be directed by the Project Manager.

DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct sizes.

PIPES, ETC. Special care is to be taken not to interfere unnecessarily with any water supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Project Manager to whom due notice must be given of any alterations to the existing services.

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PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc., from damage during the progress of the work and provide all necessary materials for so doing. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.

CREDITS, ETC. Old materials from the pulling down (except such as are described to be re-used or handed over) are to become the property of the Contractor who shall allow credit as provided for in the summary at the end of these Bills of Quantities. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before re fixing. Old materials described to be handed over are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. None of the old stock bricks form the pulling down are to be re-used for any new work.

MATERIALS, ETC. The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.

ALTERATIONS

REMOVAL OF EXISTING WORKS

Breaking up and removing mass concrete

1	600mm Wide x 100mm thick vanity slab	m	15
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

2	Coved cornice in patches	m	40
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3	Nailed ceilings in patches including preparing existing brandering for new ceilings	m2	60
	<u>Taking out and removing sundry joinery work</u>		
4	Slatted timber bench size 1800mm long x 700mm wide x 500mm high	No	1
5	Timber kitchen cupboard size 1900 x 750mm wide x 800mm high complete (removal of sink e/m)	No	1
	<u>Taking out and removing windows, etc including sills, etc (building up openings elsewhere)</u>		
6	Steel window size 600 x 900mm high	No	29
7	Steel window size 1400 x 300mm high	No	6
8	Steel window size 1000 x 600mm high	No	9
9	Steel window and louvre size 1000 x 900mm high	No	8
10	Steel window size 1450 x 600mm high	No	18
11	Steel window size 1500 x 900mm high	No	8
12	Steel window size 2600 x 600mm high	No	1
13	Steel window size 2450 x 900mm high	No	6
14	Steel window size 1500 x 1900mm high	No	2
15	Steel window size 2450 x 600mm high	No	10
16	Fixed steel louvre panel size 1485 x 1800mm high	No	2
17	Steel window size 2450 x 1900mm high	No	2
	<u>Taking out and removing doors, etc including thresholds, etc (building up openings elsewhere)</u>		
18	Timber single door 813 x 2100mm high	No	52
19	Timber double door 1500 x 2125mm high	No	2

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20	Timber single door and steel door frame size 600 x 2100mm high	No	1
21	Timber single door and steel door frame size 813 x 2100mm high	No	4
22	Timber single door with steel door frame size 1100 x 2100mm high	No	1
23	Steel door and frame size 1820 x 2125mm high	No	1
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>		
24	30mm Thick on floors and landings	m2	5
	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>		
25	Ceramic skirting	m	545
26	300 x 300mm Tiles to floors	m2	681
27	150 x 150mm Tiles to walls	m2	432
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and preparing pipes for new fittings (e/m) making good floor and wall finishes (making good good and wall finishes elsewhere)</u>		
28	Vitreous china wash hand basin	No	10
29	Carefully remove vitreous china wash hand basin, trap, taps and waste union, keep basin safe for later use	No	15
30	Vitreous china WC pan with cistern	No	1
31	Shower arm and rose	No	20

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<u>Altering openings</u>				
41	Altering opening in one brick wall where 600 x 900mm high window was removed to form opening for new window 600 x 900mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on both sides and into reveals (New window and making good paintwork elsewhere)	No	14	
42	Altering opening in one brick wall where 600 x 900mm high window was removed to form opening for new window 600 x 900mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals (New window and making good paintwork elsewhere)	No	15	
43	Altering opening in one brick wall where 1400 x 300mm high window was removed to form opening for new window 1400 x 300mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals (New window and making good paintwork elsewhere)	No	6	
44	Altering opening in one brick wall where 1450 x 600mm high window was removed to form opening for new window 1450 x 600mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals (New window and making good paintwork elsewhere)	No	18	
45	Altering opening in one brick wall where 1500 x 900mm high window was removed to form opening for new window 1500 x 900mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals (New window and making good paintwork elsewhere)	No	8	
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46	Altering opening in one brick wall where 1500 x 1900mm high window was removed to form opening for new window 1500 x 1900mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals (New window and making good paintwork elsewhere)	No	2	
47	Altering opening in one brick wall where 1000 x 600mm high window was removed to form opening for new window 1000 x 600mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals (New window and making good paintwork elsewhere)	No	9	
48	Altering opening in one brick wall where 1000 x 900mm high window was removed to form opening for new window 1000 x 900mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals (New window and making good paintwork elsewhere)	No	8	
49	Altering opening in one brick wall where 2450 x 600mm high window was removed to form opening for new window 2450 x 600mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals (New window and making good paintwork elsewhere)	No	10	
50	Altering opening in one brick wall where 2450 x 1900mm high window was removed to form opening for new window 2450 x 1900mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals (New window and making good paintwork elsewhere)	No	8	
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51	Altering opening in one brick wall where 2600 x 600mm high window was removed to form opening for new window 2600 x 600mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals (New window and making good paintwork elsewhere)	No	1
52	Altering opening in one brick wall where 1820 x 2125mm high roller shutter was removed to form opening for new transformer door size 1820 x 2125mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals and with cement screed finish to threshold (New door and making good paintwork elsewhere)	No	1
53	Altering opening in one brick wall where 1485 x 1800mm high louvre was removed to form opening for new transformer door size 1300 x 2100mm high by breaking out brickwork on both sides and bottom including necessary precast concrete lintel and making good plaster on one side and into reveals and face brickwork on other side and into reveals and with granolithic screed finish to threshold (New door and making good paintwork elsewhere)	No	2
54	Altering opening in one brick wall where 600 x 2100mm high timber single door and frame was removed to form opening for new single door and frame 600 x 2100mm high overall by breaking out brickwork on both sides and making good plaster on one side and into reveals and face brickwork on other side and into reveals and with granolithic screed finish to threshold (New door and making good paintwork elsewhere)	No	1

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55	Altering opening in one brick wall where 1100 x 2100mm high timber double door and frame was removed to form opening for new double door and frame 1100 x 2100mm high overall by breaking out brickwork on both sides and making good plaster on one side and into reveals and face brickwork on other side and into reveals and with granolithic screed finish to threshold (New door and making good paintwork elsewhere)	No	1	
56	Altering opening in one brick wall where 813 x 2100mm high timber single door and frame was removed to form opening for new single door and frame 900 x 2100mm high overall by breaking out brickwork on both sides and making good plaster on one side and into reveals and face brickwork on other side and into reveals and with cement screed finish to threshold (New door and making good paintwork elsewhere)	No	2	
	<u>Breaking out for and forming openings through brick walls for new doors including necessary precast concrete lintels and making good plaster on both sides and into reveals (new timber doors and making good paintwork elsewhere)</u>			
57	Opening for window size 600 x 900mm high through one brick wall	No	2	
58	Opening for door size 813 x 2100mm high through one brick wall	No	2	
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>			
59	Hacking of existing granolithic screeds to receive floor tiles (e/m)	m2	4	
60	Chipping and preparing previously painted walls and prepare surfaces for new tiles (tiles e/m)	m2	695	
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
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**UPGRADING OF THE STADIUM
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REINFORCED CONCRETE

30MPa/19mm concrete

61	Slabs including beams and inverted beams	m3	2
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SMOOTH FORMWORK (DEGREE OF ACCURACY I)

Smooth formwork to soffits

62	Slabs exceeding not exceeding 250mm thick propped up exceeding 1,5m high and not exceeding 3,5m high	m2	6
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REINFORCEMENT

Mild steel reinforcement to structural concrete work

63	10mm Diameter bars	t	0.07
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High tensile steel reinforcement to structural concrete work

64	16mm Diameter bars	t	0.10
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MASONRY

SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

65	Half brick walls	m2	44
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BRICKWORK SUNDRIES

Brickwork reinforcement

66	75mm Wide reinforcement built in horizontally	m	424
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<u>Builder</u>				
67	Leave or form opening through one brickwall for pipe exceeding 100mm and not exceeding 200mm diameter	No	4	
<u>FACE BRICKWORK</u>				
<u>Face bricks (Purchase price of R 10 000.00/thousand VAT excl. delivered to site) pointed with recessed horizontal and vertical joints</u>				
68	Extra over brickwork for face brickwork in patches to match existing	m2	3	
69	Half brick wall faced both sides	m2	25	
70	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	4	
<u>WATERPROOFING</u>				
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>Gundle Gunplas DPC 250 Blue Black damp proof course in walls to Agreement Certificate 2001/284 laid with minimum 150mm overlaps.</u>				
71	In walls	m2	3	
<u>CEILINGS, ETC.</u>				
<u>NAILED UP AND SCREWED UP CEILINGS</u>				
<u>6mm "Everite Nutec" fibre-cement boards with standard H-type pressed steel jointing strips</u>				
72	Ceilings in patches on existing 38 x 38mm sawn softwood bandering at 450mm centres	m2	60	
<u>"Rhino" gypsum plasterboard cornice</u>				
73	75mm Coved Cornice in patches (PC Amount R75-00/m Vat excl supplied)	m	40	
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**UPGRADING OF THE STADIUM
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CARPENTRY AND JOINERY

DOORS ETC

Semi-Solid flush doors with concealed hardwood edges and 3mm tempered hardboard covering on both sides hung to steel frame

74	Door size 813 x 2100mm high	No	14
75	Door size 813 x 2100mm high cut 50mm short at bottoms	No	30
76	Door size 900 x 2100mm high	No	2

Solid flush doors with concealed hardwood edges and 3mm tempered hardboard covering on both sides hung to steel frame

77	Door size 600 x 2100mm cut 50mm short at bottom	No	1
78	Door size 813 x 2100mm high	No	12
79	Double door size 1100 x 2100mm high with two equal leaves and rebated meeting stiles, each leaf cut 50mm short at bottom	No	1
80	Double door size 1500 x 2125mm high, with two equal leaves with rebated meeting stiles	No	2

JOINERY SUNDRIES

81	Cut opening in 40mm semi solid doors for louvre opening 300 x 300mm high	No	12
82	Cut opening in 40mm semi solid doors for louvre opening 450 x 300mm high	No	6
83	Cut opening in 40mm solid doors for louvre opening 450 x 300mm high	No	4

IRONMONGERY

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PADLOCK

84	Padlock (PC Amount R100-00 each Vat excl. supplied)	No	2
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LOCKS

TYPE 1 (D01)

85	Dormakaba Tubular Stainless Steel 155mm long spring loaded lever handle in Stainless Steel finish (Code: TH120BP cylinder).	No	4
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86	Dormakaba Stainless Steel cylinder sash lock (Code: D036S) with 57mm backset.	No	4
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87	Dormakaba Satin Nickel 63mm - 31.5 + 31.5mm Grand master keyed E-SP 5 Pin double cylinder (Code: DDC206301GMK).	No	4
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88	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	4
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TYPE 2 (D03,D04)

89	Dormakaba Tubular Stainless Steel 155mm long spring loaded lever handle in Stainless Steel finish (Code: TH120BP cylinder).	No	17
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90	Dormakaba Stainless Steel cylinder sash lock (Code: D036S) with 57mm backset.	No	17
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91	Dormakaba Satin Nickel 63mm - 31.5 + 31.5mm Grand master keyed E-SP 5 Pin Knob cylinder (Code: DKC206301GMK).	No	17
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92	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	17		
	<u>TYPE 3 (D11)</u>				
93	Dormakaba rectangular Stainless Steel ring flush pull handle (Code: DRP-SS-023), size 44mm x 62mm.	No	2		
94	Dormakaba Stainless Steel cylinder deadlock (Code: D037D) with 57mm backset.	No	1		
95	Dormakaba 40.5 - Europrofile Nickel plated E-SP 5 Pin single - Grand master keyed (Code: DSC204101GMK).	No	1		
96	Dormakaba 52mm diameter Stainless Steel cylinder escutcheon (Code: DCE-002).	No	2		
97	Dormakaba Nickel Plated Rebate conversion kit for Euro Profile locks (Code: D038R).	No	1		
98	Dormakaba Satin Chrome flush bolt with heel (Code: DFB-SC-180), size 48 x 19 x 153mm fixed in accordance with with keep let into concrete	No	1		
99	Dormakaba Satin Chrome flush bolt with heel (Code: DFB-SC-180), size 48 x 19 x 153mm fixed in accordance with with keep let into metal	No	1		
	<u>TYPE 4 (D03,D10,D11)</u>				
100	Dormakaba rectangular Stainless Steel ring flush pull handle (Code: DRP-SS-023), size 44mm x 62mm.	No	4		
101	Dormakaba Stainless Steel cylinder deadlock (Code: D037D) with 57mm backset.	No	4		
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102	Dormakaba 40.5 - Europrofile Nickel plated E-SP 5 Pin single - Grand master keyed (Code: DSC204101GMK).	No	4		
103	Dormakaba 52mm diameter Stainless Steel cylinder escutcheon set (Code: DCE-002).	No	4		
	<u>TYPE 5 (D04- CUBICLES)</u>				
104	Dormakaba grade 430 Stainless Steel plate (Code: DPP-430-BL), size 150 x 300 x 1,2mm with 6 (six) counter-sunk fixing holes plugged and screwed with aluminium screws.	No	26		
105	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH301CBT), size 19mm diameter x 149mm long.	No	26		
106	Dormakaba M4 patent male/female fixing screws	No	294		
107	Dormakaba Stainless Steel bathroom deadlock (Code: DMWC-SS-008) with 55mm backset.	No	26		
108	Dormakaba 52 x 52mm Stainless Steel square bathroom WC bolt set (Code: DWC-006).	No	26		
109	Dormakaba Stainless Steel hat and coat hook with rubber buffer (Code: DHC-SS-031), size 70 x 25 x 80mm fixed in accordance with the manufacturer's recommendations.	No	26		
	<u>TYPE 6 (D07)</u>				
110	Dormakaba mechanical hold open TS 91B cam action slide channel door closer (Code: TS 91B HO) with a closing force of EN 3 for maximum 950mm wide door.	No	4		
111	Dormakaba surface mounted door coordinator (Code: SR392), fitted in accordance with manufacturer's recommendations.	No	2		
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112	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH210BT), size 30mm diameter x 300mm long.	No	4		
113	Dormakaba Stainless Steel cylinder deadlock (Code: D037D) with 57mm backset.	No	2		
114	Dormakaba Satin Nickel 63mm - 31.5 + 31.5mm Grand master keyed E-SP 5 Pin Knob cylinder (Code: DCC206301GMK).	No	2		
115	Dormakaba 52mm diameter Stainless Steel cylinder escutcheon (Code: DCE-002).	No	2		
116	Dormakaba Nickel Plated Rebate conversion kit for Euro Profile locks (Code: D038R).	No	2		
117	Dormakaba grade 430 Stainless Steel plate (Code: DPP-430-BL), size 150 x 300 x 1,2mm with 6 (six) counter-sunk fixing holes plugged and screwed with aluminium screws.	No	4		
118	Dormakaba Satin Chrome flush bolt with heel (Code: DFB-SC-180), size 48 x 19 x 153mm with let set into concrete	No	2		
119	Dormakaba Satin Chrome flush bolt with heel (Code: DFB-SC-180), size 48 x 19 x 153mm with let set into metal	No	2		
120	Dormakaba Stainless Steel dust proof strike (Code: DPS-SS-032), size 38 x 19mm fixed in accordance with the manufacturer's recommendations.	No	2		
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121	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	4		
	<u>TYPE 7 AND 8 - MALE/FEMALE (D03)</u>				
122	Dormakaba mechanical hold open TS 91B cam action slide channel door closer (Code: TS 91B HO) with a closing force of EN 3 for maximum 950mm wide door.	No	6		
123	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH210BT), size 30mm diameter x 300mm long.	No	6		
124	Dormakaba grade 430 Stainless Steel plate (Code: DPP-430-BL), size 150 x 300 x 1,2mm with 6 (six) counter-sunk fixing holes plugged and screwed with aluminium screws.	No	6		
125	Dormakaba Stainless Steel cylinder deadlock (Code: D037D) with 57mm backset.	No	6		
126	Dormakaba Brass 43mm master keyed single cylinder (Code: DSC104300).	No	6		
127	Dormakaba 52mm diameter Stainless Steel cylinder escutcheon set (Code: DCE-002).	No	6		
128	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	6		
129	Dormakaba "Male " engraved grade 304 Stainless Steel sign (Code: DSS-130), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	3		
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130	Dormakaba "Female" engraved grade 304 Stainless Steel sign (Code: DSS-131), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	3		
	<u>TYPE 9 - DISABLED (D05)</u>				
131	Dormakaba non hold open TS 73V rack and pinion projecting arm door closer (Code: TS 73V) with a closing force of EN 2-4 for maximum 1 100mm wide door.	No	2		
132	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH301BBT), size 25mm diameter x 325mm long.	No	4		
133	Dormakaba M4 patent male/female fixing screws	No	12		
134	Dormakaba Stainless Steel bathroom deadlock (Code: D032D) with 57mm backset.	No	2		
135	Dormakaba 52 x 52mm Stainless Steel square bathroom WC bolt set (Code: DWC-006).	No	2		
136	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	2		
137	Dormakaba grade 430 Stainless kick plate (Code: DKP-430-SF), size 300 x 900 x 1,2mm with 12 (twelve) counter-sunk fixing holes plugged and screwed with aluminium screws.	No	4		
138	Dormakaba "Male & Female" engraved grade 304 Stainless Steel sign (Code: DSS-132), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
139	Dormakaba "Disabled" engraved grade 304 Stainless Steel sign (Code: DSS-133), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
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<u>TYPE 10 (D08)</u>				
140	Dormakaba rectangular Stainless Steel ring flush pull handle (Code: DRP-SS-023), size 44mm x 62mm.	No	2	
141	Dormakaba Stainless Steel cylinder deadlock (Code: D037D) with 57mm backset.	No	2	
142	Dormakaba Brass 40.5mm grand master keyed E-SP 5 pin single cylinder (Code: DSC204101GMK).	No	2	
143	Dormakaba 52mm diameter Stainless Steel cylinder escutcheon set (Code: DCE-002).	No	2	
144	150mm heavy duty barrel bolt (CODE: BHD 150)	No	2	
145	150mm heavy duty necked bolt (CODE: NBHD 150)	No	2	
<u>BATHROOM FITTINGS</u>				
<u>"Franke"</u>				
146	Franke CNTX750 Grade 304 18/10 stainless steel 32mm diameter straight grab rail with Franke fine grip (Code: 2510006) 750mm x 95mm deep, plugged and screwed to the wall with stainless steel screws.	No	2	
147	Franke CNTX21 Grade 304 18/10 stainless steel 32mm diameter angle bar with Franke fine grip (Code: 2510008), size 415 x 415 x 95mm deep, plugged and screwed to the wall with stainless steel screws.	No	2	
<u>"Sundries"</u>				
148	Toilet tissue dispenser overall size 130 x 135 x 256mm high (PC Amount R1 500-00 Vat excl. supplied)	No	5	
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149	Stainless steel soap dispenser overall size 304 x 100 x 134mm deep with a replaceable and refill 1 litre container and cylinder lock with standard key, plugged and screw to the wall with stainless steel screws (PC Amount R3 000-00 vat excl. supplied)	No	8
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150	Satin finished stainless steel automatic hands free hand dryer (PC Amount R6 000.00 each VAT excl. supplied)	No	6
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DOOR GRILLES

Natural anodised aluminium door louvre

151	Trox or similar approved natural aluminium door louvre size 450 x 300mm high	No	10
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152	Trox or similar approved natural aluminium door louvre size 300 x 300mm high	No	12
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SUNDRIES

153	Anodised aluminium dividing strip (PC Amount R50/m Vat excl. supplied)	m	20
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METALWORK

WELDED SCREENS, GATES, ETC

Steel gates and frames

154	Steel double gate size 2200 x 2720mm high (PC Amount R3 500-00 Vat excl supplied and installed by a Specialist)	No	2
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PRESSED STEEL DOOR FRAMES

1,2mm Double rebated frames suitable for one brick walls

155	Frame for door 813 x 2100mm high	No	2
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156	Frame for door 813 x 2100mm high set in created openings (openings e/m)	No	2
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Carried to Collection

R

Section No. 2
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

157	Frame for door 600 x 2100mm high cut 50mm short at bottom set in openings created elsewhere (openings e/m)	No	1		
158	Frame for door 900 x 2100mm high set in openings elsewhere created (openings e/m)	No	2		
159	Frame for door size 1100 x 2100mm high cut 50mm at bottom set in opening created elsewhere (openings e/m)	No	1		
<u>ALUMINIUM WINDOWS, DOORS ETC.</u>					
<u>Powder coated aluminium doors and windows (inclusive of locksets):</u>					
160	Purpose made window size 1400 x 300mm high (W10) (PC Amount R1 200-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	6		
161	Purpose made window size 600 x 900mm high (W1) (PC Amount R1 500-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	31		
162	Purpose made window size 1000 x 600mm high (W05) (PC Amount R1 680-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	9		
163	Purpose made window size 1450 x 600mm high (W03) (PC Amount R2 500-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	18		
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**UPGRADING OF THE STADIUM
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164	Purpose made window size 1000 x 900mm high (W03) (PC Amount R2 520-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	8		
165	Purpose made window size 1500 x 900mm high (W07) (PC Amount R3 800-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	8		
166	Purpose made window size 2450 x 600mm high (W04) (PC Amount R4 200-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	10		
167	Purpose made window size 2600 x 600mm high (W11) (PC Amount R4 400-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	1		
168	Purpose made window size 1500 x 1900mm high (W08) (PC Amount R8 000-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	2		
169	Purpose made window size 2450 x 1900mm high (W09) (PC Amount R13 000-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	8		
<u>PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u>					
	Carried to Collection				R
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Transformer doors</u>			
170	Door 1300 x 2100mm high with 600 x 400mm high louvred ventilation panel and rebated frame suitable for one brick wall (PC Amount R7 000-00 each Vat excl. supplied)	No	2	
	<u>STEEL ROLLER SHUTTERS, ETC.</u>			
	<u>Epoxy powder coated roller shutters fixed to brickwork or concrete</u>			
171	Chain operated slatted roller shutter for 1820 x 2125mm high opening (PC Amount R15 000-00 supplied and installed on site by Specialists)	No	1	
	<u>PLASTERING</u>			
	<u>SCREEDS</u>			
	<u>Granolithic screed</u>			
172	30mm thick on floors and landings	m2	6	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
173	On walls	m2	87	
174	On walls in patches	m2	3	
	<u>PLUMBING AND DRAINAGE</u>			
	<u>SANITARY FITTINGS</u>			
	<u>Basins:</u>			
	<u>"Vaal"</u>			
175	Carefully fit previously set aside basin in new position	No	15	
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

176	Vaal Sanitaryware 510 x 405mm Hibiscus White vitreous china lavatory basin (Code : 7023) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two x 10mm bolts (product code 8448Z0)	No	12
177	Vaal Sanitaryware Iceberg vitreous china drop-in vanity basin colour White (Code: 703400WH), overall size 420 x 420 x 162mm fitted into opening in vanity top and sealed with silicone sealant where basin rim meets vanity top.	No	3
178	Vaal Sanitaryware Protea Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 750246WH), comprising 90° outlet pan (Code: 750202WH) and matching 9 litre cistern, including lid, fitments and purpose-made chromium plated side flush lever (Code: 7100LLWH).	No	2
	<u>"Franke"</u>		
179	Franke Trendline Model 1500 x 535 DCB Grade 304 18/10 polished stainless steel double centre bowl drop on sink (Code: 1030010), overall size 1500 x 535mm with two 343 x 410 x 146mm deep bowls, fitted onto cupboard (elsewhere specified).	No	1
	<u>WASTE UNIONS ETC</u>		
	<u>"Cobra Watertech"</u>		
180	Cobra Watertech 32mm chrome plated anti-theft plug with spindle (Code: 309-32).	No	27
181	Cobra Watertech 32mm chrome plated slotted basin waste union (no chain or stay) (Code: 303)	No	27
182	"Cobra Ref. 316" sink waste with 70mm diameter flange, 45mm long shank, backnut, plug and chain	No	2

TRAPS ETC

Carried to Collection

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>"Marley"</u>				
183	40 x 300mm Sink combination for double bowl with deepseal "P" trap	No	1		
	<u>"Cobra Watertech"</u>				
184	Cobra Watertech 40mm chrome plated bottle trap (Code: 365-50) with 75mm deep re-seal, adjustable telescopic pipe and 50mm outlet.	No	27		
	<u>TAPS, VALVES, ETC</u>				
	<u>"Cobra Watertech"</u>				
185	Cobra Watertech 15mm MI x FI x 50mm long extension piece (Code: 057-15).	No	2		
186	Cobra Watertech Star 15mm chrome plated sink mixer (Code: 266-041-10) with aerated swivel spout and concealed connections, manufactured in accordance with SANS 226:2009 Type 1 (BS 5412).	No	1		
187	Cobra Watertech 15mm chrome plated pillar tap (Code: 503-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	11		
188	Cobra Watertech 15mm chrome plated pillar tap (Code: 503-21B) with red indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	11		
189	Cobra Watertech metering pillar tap with chrome plated finish (Code : KM2-102)	No	16		
190	Cobra Watertech 15mm "Carina" undertile stop tap (Code: 138CA-15)	No	6		
191	Cobra Watertech "Dura" bath/shower mixer (Code DU-956)	No	2		
	Carried to Collection				
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

192	Cobra Watertech 15mm angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	5		
193	Cobra Watertech Ref. KP2.6 vandal resistant shower head	No	20		
<u>SANITARY PLUMBING</u>					
<u>uPVC, soil and vent pipes</u>					
194	50mm Pipes	m	42		
195	50mm Pipes chased into brickwork	m	4		
196	110mm Pipes	m	2		
<u>Extra over uPVC, soil and vent pipes for fittings</u>					
197	50mm Bend	No	27		
198	50mm Junction	No	1		
199	50mm Access bend	No	1		
200	50mm Access junction	No	1		
201	50mm Reducer	No	2		
202	50mm BSP adaptor	No	25		
203	110mm Access Bend	No	3		
204	110mm Pan connector	No	3		
205	110mm Pan connector	No	2		
206	110mm Bend	No	1		
207	110mm Junction	No	1		
<u>WATER SUPPLIES</u>					
Carried to Collection					
Section No. 2 ALTERATIONS Bill No. 1 STADIUM				R	

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Class 0 copper pipes</u>			
208	15mm Pipes	m	76	
209	22mm Pipes	m	40	
	<u>Extra over class 0 copper pipes for capillary fittings</u>			
210	15mm Fittings	No	62	
211	22mm Fittings	No	8	
	<u>FIRE APPLIANCES ETC</u>			
	<u>"Chubb"</u>			
212	Refill and services existing fire extinguishers	No	4	
213	9kg Dry chemical powder fire extinguisher, including standard hard wood backing plugged and backing finished with one coat dark stain and two coats clear suede polyurethane varnish	No	8	
	<u>TILING</u>			
	<u>WALL TILING</u>			
	<u>300 x 600 x 11,5mm Porcelain tiles (PC R300-00/m2 VAT excl. supplied) fixed with approved adhesive to plastered wall with straight joints in both direction flush pointed with tinted jointing compound</u>			
214	On walls	m2	1,097	
215	On narrow widths	m2	34	
216	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	27	
217	Fair exposed cutting and fitting around pipe not exceeding 100mm	No	2	
	Carried to Collection			R
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
224	Mirror 450 x 600mm high with four screws	No	27	
225	Mirror 600 x 1000mm high with four screws	No	2	
<u>PAINTWORK</u>				
<u>PAINTWORK TO NEW WORK</u>				
<u>ON FLOATED PLASTER</u>				
<u>Plascon Professional All Purpose Matt to interior new cement plaster.</u>				
<u>Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure.</u>				
<u>Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional All Purpose Matt (PEM 800) with 1 hour drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u>				
<ul style="list-style-type: none"> • <u>Environment : C1 - inland</u> • <u>Topcoat : Professional All Purpose Matt</u> • <u>Number of coats of topcoat : two coats</u> • <u>Overcoating time for topcoat : 1.00 hour</u> • <u>Primer/Base coat : Professional Plaster Primer</u> • <u>Overcoating time for primer/base coat : 16.00 hour</u> • <u>Specification document : RD118t.</u> 				
226	On internal walls	m2	94	
Carried to Collection				R
Section No. 2 ALTERATIONS Bill No. 1 STADIUM				

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

227	<p><u>Plascon Professional All Purpose Matt to exterior new cement plaster.</u></p> <p><u>Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional All Purpose Matt (PEM 800) with 1 hour drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u></p> <ul style="list-style-type: none"> • <u>Environment : C1 - inland</u> • <u>Topcoat : Professional All Purpose Matt</u> • <u>Number of coats of topcoat : two coats</u> • <u>Overcoating time for topcoat : 1.00 hour</u> • <u>Primer/Base coat : Professional Plaster Primer</u> • <u>Overcoating time for primer/base coat : 16.00 hour</u> • <u>Specification document : RD118t.</u> <p>On external walls</p>	m2	3	
<u>ON FIBRE CEMENT</u>				
228	<p><u>Plascon Professional Superior Matt to interior new fibre cement.</u></p> <p><u>Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Superior Matt (PEM 950) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u></p> <ul style="list-style-type: none"> • <u>Environment : C1 - inland</u> • <u>Topcoat : Professional Superior Matt</u> • <u>Number of coats of topcoat : two coats</u> • <u>Overcoating time for topcoat : 2.00 hour</u> • <u>Primer/Base coat : Professional Plaster Primer</u> • <u>Overcoating time for primer/base coat : 16.00 hour</u> • <u>Specification document : RD107t.</u> <p>On ceilings and cornices</p>	m2	60	
Carried to Collection				
<p>Section No. 2 ALTERATIONS Bill No. 1 STADIUM</p>				
				R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

ON WOOD

Plascon Woodcare Water Based Exterior Varnish to exterior new wood.

Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. finish with two coats Woodcare Water Based Exterior Varnish (WSP17) with 24 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.

- Environment : C1 - inland
- Topcoat : Woodcare Water Based Exterior Varnish
- Number of coats of topcoat : two coats
- Overcoating time for topcoat : 4.00 hour
- Specification document : RD348.

229 On doors m2 230

ON METAL

Plascon Professional Eggshell Enamel to interior new mild steel.

Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with one coat Plascoprime 170 Primer (UC170) with an overcoating time of 16 hours and finish with two coats Professional Eggshell Enamel (PSB 700) with 16 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.

- Environment : C1 - inland
- Topcoat : Professional Eggshell Enamel
- Number of coats of topcoat : two coats
- Overcoating time for topcoat : 16.00 hour
- Primer/Base coat : Plascoprime 170 Primer
- Overcoating time for primer/base coat : 36.00 hour
- Specification document : RD289t.

230 On door frames m2 11

Carried to Collection

R

Section No. 2
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STADIUM

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Plascon Velvagio Water Based to exterior new mild steel.

Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with one coat Metalcare Mild Steel Primer (UC501) with an overcoating time of 16 hours and finish with two coats Velvagio Water Based (VLW) with 4 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.

- Environment : C1 - inland
- Topcoat : Velvagio Water Based
- Number of coats of topcoat : two coats
- Overcoating time for topcoat : 4.00 hour
- Primer/Base coat : Metalcare Mild Steel Primer
- Overcoating time for primer/base coat : 16.00 hour
- Specification document : RD282ra.

231	On door frames	m2	2
232	On steel transformer doors and frames	m2	11
233	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	24

PAINTWORK ETC TO PREVIOUSLY PAINTED WORK

ON FLOATED PLASTER

Carried to Collection

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UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA

234	<p><u>Plascon Professional All Purpose Matt to previously painted interior cement plaster.</u></p> <p><u>Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional All Purpose Matt (PEM 800) with 1 hour drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p> <ul style="list-style-type: none"> • <u>Environment : C1 - inland</u> • <u>Topcoat : Professional All Purpose Matt</u> • <u>Number of coats of topcoat : two coats</u> • <u>Overcoating time for topcoat : 1.00 hour</u> • <u>Primer/Base coat : Professional Plaster Primer</u> • <u>Overcoating time for primer/base coat : 16.00 hour</u> • <u>Specification document : RD118t.</u> <p>On internal walls</p>	m2	1,303	
235	<p><u>Plascon Super Acrylic Polvin to previously painted exterior cement plaster.</u></p> <p><u>Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with one coat Plascon Plaster Primer (UC56) with an overcoating time of 16 hours and finish with two coats Super Acrylic Polvin (EPL 30) with 1 hour drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u></p> <ul style="list-style-type: none"> • <u>Environment : C1 - inland</u> • <u>Topcoat : Super Acrylic Polvin</u> • <u>Number of coats of topcoat : two coats</u> • <u>Overcoating time for topcoat : 1.00 hour</u> • <u>Primer/Base coat : Plascon Plaster Primer</u> • <u>Overcoating time for primer/base coat : 16.00 hour</u> • <u>Specification document : RD116r.</u> <p>On external walls</p>	m2	848	
<u>ON SMOOTH CONCRETE</u>				
Carried to Collection				R
<p>Section No. 2 ALTERATIONS Bill No. 1 STADIUM</p>				

UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA

236	<p><u>Plascon Professional Rippled Texture Low Sheen previously painted interior cement plaster.</u></p> <p><u>Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Rippled Texture Low Sheen (PTX 1400) with 4 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u></p> <ul style="list-style-type: none"> • <u>Environment : C1 - inland</u> • <u>Topcoat : Professional Rippled Texture Low Sheen</u> • <u>Number of coats of topcoat : two coats</u> • <u>Overcoating time for topcoat : 4.00 hour</u> • <u>Primer/Base coat : Professional Plaster Primer</u> • <u>Overcoating time for primer/base coat : 16.00 hour</u> • <u>Specification document : RD156t.</u> <p>On ceilings and soffits</p>	m2	417	
<u>ON PLASTER BOARD</u>				
237	<p><u>Plascon Professional Superior Matt to previously painted fibre cement.</u></p> <p><u>Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with one coat Professional Plaster Primer (PP700) with an overcoating time of 16 hours and finish with two coats Professional Superior Matt (PEM 950) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u></p> <ul style="list-style-type: none"> • <u>Environment : C1 - inland</u> • <u>Topcoat : Professional Superior Matt</u> • <u>Number of coats of topcoat : two coats</u> • <u>Overcoating time for topcoat : 2.00 hour</u> • <u>Primer/Base coat : Professional Plaster Primer</u> • <u>Overcoating time for primer/base coat : 16.00 hour</u> • <u>Specification document : RD107t.</u> <p>On ceilings and cornices</p>	m2	284	
Carried to Collection				
<p>Section No. 2 ALTERATIONS Bill No. 1 STADIUM</p>				
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

238	On columns and beams	m2	5	
<u>ON METAL</u>				
<u>Plascon Professional Eggshell Enamel to previously painted mild steel.</u>				
<u>Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure. Prime with one coat Plascoprime 170 Primer (UC170) with an overcoating time of 16 hours and finish with two coats Professional Eggshell Enamel (PSB 700) with 16 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u>				
<ul style="list-style-type: none"> • <u>Environment : C1 - inland</u> • <u>Topcoat : Professional Eggshell Enamel</u> • <u>Number of coats of topcoat : two coats</u> • <u>Overcoating time for topcoat : 16.00 hour</u> • <u>Primer/Base coat : Plascoprime 170 Primer</u> • <u>Overcoating time for primer/base coat : 36.00 hour</u> • <u>Specification document : RD289t.</u> 				
239	On door frames	m2	78	
Carried to Collection				
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Plascon Velvagio Water Based to previously painted mild steel.

Surface to be assessed and the appropriate surface preparation clauses selected for remedial procedure.
Prime with one coat Metalcare Mild Steel Primer (UC501) with an overcoating time of 16 hours and finish with two coats Velvagio Water Based (VLW) with 4 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.

- Environment : C1 - inland
- Topcoat : Velvagio Water Based
- Number of coats of topcoat : two coats
- Overcoating time for topcoat : 4.00 hour
- Primer/Base coat : Metalcare Mild Steel Primer
- Overcoating time for primer/base coat : 16.00 hour
- Specification document : RD282ra.

240	On door frames	m2	6
241	On rails, bars, pipes, etc not exceeding 300 mm girth	m	29
242	On window frames	m2	105
243	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	79

Carried to Collection

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Section No. 2
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 Bill No. 1
 STADIUM

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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**UPGRADING OF THE STADIUM
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STADIUM

**SECTION 3: ABLUTION, 2 X OFFICE
BLOCKS AND ENTRANCE GATES**

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item
No

Quantity

Rate

Amount

SECTION NO. 3

BILL NO. 1

FOUNDATIONS

For Preambles refer to "Department of Public Works:
Specification of material and methods to be used -
PW371"

SUPPLEMENTARY PREAMBLES

Nature of ground

The nature of the ground is assumed to be sandy
weathered granite, therefore "earth", but possibly
interspersed with "hard rock"

Excavation for working space in rock

Notwithstanding clause 11 page 8 of the Standard
System of Measuring Building Work, excavation for
working space in rock will be measured in cubic metres
to the extent executed and given as "extra over" bulk
excavation or trench and hole excavation as the case
may be

Carting away of excavated material

Descriptions of carting away of excavated material shall
be deemed to include loading excavated material onto
trucks directly from the excavations or, alternatively,
from stock piles situated on the building site

Filling

Notwithstanding the reference to prescribed multiple
handling in clause 1 page 6 of the Standard System of
Measuring Building Work, prices for filling and backfilling
shall include for all selection and any multiple handling
of material

Carried to Collection

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Section No. 3
ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT
Bill No. 1
FOUNDATIONS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

EARTHWORKS

EXCAVATIONS

Excavation in earth not exceeding 2m deep

1	Trenches	m3	428
2	Holes	m3	20
3	Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density	m2	243

Extra over trench and hole excavations in earth for excavation in

4	Soft rock	m3	6
5	Hard rock	m3	4

Extra over all excavations for carting away

6	Surplus material from excavations and/or stock piles on site to a dumping site not exceeding 1km from the excavations as indicated by the Project Manager	m3	417
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Risk of collapse of excavations

7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	824
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Keeping excavations free of water

8	Keeping excavations free of water		Item
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Prescribed density tests on filling

9	"Mod. AASHTO Density" test	No	10
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FILLING ETC

Carried to Collection

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Section No. 3
 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT
 Bill No. 1
 FOUNDATIONS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Clean river sand filling supplied by the contractor compacted to 85 - 90% mod. AASHTO density at -2% to 1% OMC in holes</u>			
10	150mm Thick layer of clean river sand compacted to 85 - 90% mod. AASHTO density at -2% to 1% OMC in holes	m2	118	
11	150mm Thick layer of clean river sand compacted to 85 - 90% mod. AASHTO density at -2% to 1% OMC in holes	m2	118	
	<u>Earth filling of G6 material supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
12	Backfilling to trenches, holes, etc	m3	79	
	<u>Earth filling of G6 material supplied by the contractor (not compacted).</u>			
13	Backfilling to trenches between 1200 and 1500mm wide to form platforms for concrete strip footings (e/m)	m3	189	
14	Backfilling to holes 1200 x 1200mm wide to form platforms for concrete bases (e/m)	m3	9	
	<u>Earth filling of G6 material supplied by the contractor, compacted to 95% Mod AASHTO density</u>			
15	Backfilling to trenches, holes, etc	m3	33	
	<u>Earth filling of G6 material supplied by the contractor, compacted to 95% Mod AASHTO desity</u>			
16	Under floors, steps, pavings, etc	m3	39	
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

<u>Compaction of surfaces</u>		
17	Compaction of ground surface in holes size 1200 x 1200mm wide, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density at -2% to 1% OMC	m2 10
18	Compaction of ground surface under floors including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density at -2% to 1% OMC	m2 308
<u>Prescribed density tests on filling</u>		
19	"Mod. AASHTO Density" test	No 32
<u>SOIL POISONING</u>		
<u>Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee</u>		
20	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2 308
21	To bottoms and sides of trenches etc	m2 1,162
<u>Weedkiller mixed in accordance to supplier's specifications</u>		
22	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2 308
23	To bottoms and sides of trenches etc	m2 1,162

**CONCRETE, FORMWORK &
REINFORCEMENT**

**UNREINFORCED CONCRETE CAST
AGAINST EXCAVATED SURFACES**

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Section No. 3
 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT
 Bill No. 1
 FOUNDATIONS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
31	Piers	m3	2	
32	One brick walls	m2	139	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brickwork reinforcement</u>			
33	150mm Wide reinforcement built in horizontally	m	3,372	
	<u>FACE BRICKWORK</u>			
	<u>Face clay face brick, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zone 1-2 (PC Amount R10 000-00/1000 VAT excl. supplied and delivered to site)</u>			
34	Extra over brickwork for face brickwork	m2	25	
	<u>PAVING</u>			
	<u>Interlocking paving</u>			
35	Technicrete 35Mpa Double ZigZag 60mm thick Grey paving blocks laid to standard Double ZigZag pattern in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on and including 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m2	23	
36	Precast concrete garden kerb (PC Amount R75-00/m Vat excl. supplied)	m	4	
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	Section No. 3 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT Bill No. 1 FOUNDATIONS			R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

37	Extra over cutting paving blocks to fit edge	m	4	
	<u>Sundries</u>			
38	Mass concrete (25MPa) in 60 x 60mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc	m	4	
Carried to Collection				R
Section No. 3 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT Bill No. 1 FOUNDATIONS				

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Section No. 3

ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GATES

Bill No. 1

FOUNDATIONS

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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT

Bill No. 1

FOUNDATIONS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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Rate

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SECTION NO. 3

BILL NO. 2

**CONCRETE, FORMWORK AND
REINFORCEMENT**

For Preambles refer to "Department of Public Works:
Specification of material and methods to be used -
PW371"

SUPPLEMENTARY PREAMBLES

Cost of tests

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 and to the approval of the architect. (Test cubes are measured separately)

Breeze concrete

Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated

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Section No. 3
ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT
Bill No. 2
CONCRETE, FORMWORK & REINFORCEMENT

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Formwork

Description 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

Formworks to soffits of solid slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high 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"

**REINFORCED CONCRETE CAST AGAINST
EXCAVATED SURFACES**

30MPa/19mm concrete

1	Surface beds cast in panels on waterproofing	m3	35
2	Extra over for concrete thickening in surface beds size approximately 100mm deep, 300mm at top and tapering both sides to 200mm at bottom, including all excavations, cart away, etc.	m	72

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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT
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CONCRETE, FORMWORK & REINFORCEMENT

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

TEST CUBES

3	Allow for preparing a set of three (3) concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	No	29
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CONCRETE SUNDRIES

Finishing top surfaces of concrete smooth with a steel trowel

4	Surface beds, slabs, etc	m2	286
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MOVEMENT JOINTS ETC

Expansion joints with bitumen impregnated softboard between concrete and brickwork

5	10mm Joints not exceeding 300mm high along edges of surface beds	m	367
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Saw cut joints

6	5 x 50mm Saw cut joints in top of concrete	m	140
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REINFORCEMENT

Fabric reinforcement

7	Steeledale Mesh standard square fabric mesh, nominal mass 2,45 kg/m ² with nominal 5,6mm thick wires and 200 x 200mm pitch (Ref 245), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	286
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CONCRETE, FORMWORK & REINFORCEMENT

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GATES

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CONCRETE, FORMWORK & REINFORCEMENT

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Bill No. 2

CONCRETE, FORMWORK & REINFORCEMENT

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Reinforced brick lintels

Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

SAMPLES

Samples of all masonry building units, shall consist of a minimum of 6 units

SUPERSTRUCTURE

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

1	Piers	m3	11
2	Half brick walls	m2	264
3	One brick walls	m2	706

BRICKWORK SUNDRIESBrickwork reinforcement

4	75mm Wide reinforcement built in horizontally	m	1,851
5	150mm Wide reinforcement built in horizontally	m	5,276

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MASONRY

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>"Allied Concrete" prestressed fabricated lintels</u>				
6	110 x 70mm Lintels in lengths not exceeding 3m	m	105		
	<u>Turning pieces</u>				
7	230mm Wide turning piece to lintels, etc.	m	70		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
8	1,2mm Thick x 30mm wide galvanised metal hoop iron 300mm long built into brickwork	No	52		
9	1,6mm Thick x 25mm wide galvanised metal hoop iron 450mm long two (2) times bent and built into brickwork	No	63		
10	1,6mm Thick x 30mm wide galvanised metal strap 540mm long once bent and built into brickwork	No	1,186		
11	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	42		
	<u>Joint forming material in movement joints</u>				
12	10mm Thick "Jointex" not exceeding 300mm wide fixed vertically between walls	m	259		
	<u>Holes:</u>				
13	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	56		
14	Leave or form opening through one brickwall for pipe exceeding 100 and not exceeding 200mm diameter	No	46		
	<u>FACE BRICKWORK</u>				
	<u>Face bricks (Purchase price of R 10 000,00/thousand VAT excl. delivered to site) pointed with recessed horizontal and vertical joints</u>				
15	Extra over brickwork for face brickwork	m2	1,120		
	Carried to Collection				
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

16	Half brick walls in beamfilling faced both sides but jointed and pointed on one side	m2	20
17	Extra over for facing in piers, including bonding and pointed with recesses joints on all exposed faces	m2	68
18	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	56
19	Fair cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	46
20	Extra over brickwork for brick-on-edge header course lintel	m	78
21	Fair raking cutting	m	197
	<u>Brick-on-edge header course coping, sills, etc of face bricks (PC Amount R10 000,00/thousand VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>		
22	Coping on top of one brickwall	m	49
23	Coping on raking top of one brick wall	m	197
24	220mm Wide sill set level and slightly projecting	m	44

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Section No. 3
 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT
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 MASONRY

**UPGRADING OF THE STADIUM
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MASONRY

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>Gundle Gunplas DPC 250 Blue Black damp proof course in walls to Agreement Certificate 2001/284 laid with minimum 150mm overlaps.</u>			
1	In walls	m2	98	
	<u>Gundle USB Green co ex 250µm damp proof membrane under concrete surface beds to SANS mark 952-1985 type C laid with minimum 150mm overlaps and sealed with Gunplas pressure sensitive tape.</u>			
2	Under surface beds	m2	286	
	<u>JOINT SEALANTS, ETC</u>			
	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u>			
3	5 x 50mm in saw cut joints	m	140	
	<u>"abe" Construction chemicals</u>			
4	10 x 5mm Deep isolation joints, including raking out of expansion joint filler as necessary, prepare surfaces leaving them clean, dry sound and free of grease. clean non-porous surface with Dow Corning R40, dry thoroughly, apply primer if necessary and apply DOW Corning 813-C sealant	m	367	
	Carried to Collection			
	Section No. 3 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT Bill No. 4 WATERPROOFING		R	

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

"Sika" Construction chemicals

5 15 x 10mm In isolation joints including removing all loose materials with a wire brush, water or sand blasting if necessary, remove all traces of release agents etc., apply bond breaker or backing cord, apply Sika Primer 3 and Sikaflex-Pro 2HP within one (1) to five (5) hours of applying Sika Primer 3 all in strict accordance of manufacturer's instructions.

m

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Section No. 3
ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT
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WATERPROOFING

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GATES

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WATERPROOFING

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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT

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WATERPROOFING

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p>			
<p><u>BILL NO. 5</u></p>			
<p><u>CARPENTRY AND JOINERY</u></p>			
<p>For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Particle board:</u></p>			
<p>Particle board shall comply with the following specifications:</p>			
<p>a) SABS 1300 Particle board: exterior and flooring type</p>			
<p>b) SABS 1301 Particle board: interior type</p>			
<p><u>Joinery:</u></p>			
<p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p>			
<p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p>			
<p><u>Fixing</u></p>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p>			
<p><u>Decorative laminate finish:</u></p>			
<p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p>			
<p align="right">Carried to Collection</p>			
<p>Section No. 3 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT Bill No. 5 CAPENTRY AND JOINERY</p>			
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

DOORS, ETC

40mm Semi-solid core flush panel doors with masonite veneer hung to steel frames

1	Door size 900 x 2032mm high	No	2
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40mm Solid core flush panel doors with masonite veneer hung to steel frames

2	Door size 813 x 2032mm high cut 100mm short at bottom	No	44
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3	Door size 813 x 2100mm high	No	10
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JOINERY SUNDRIES

4	Cut opening in 40mm semi solid doors for louvre opening 400 x 300mm high	No	2
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5	Cut opening in 40mm semi solid doors for louvre opening 620 x 400mm high	No	3
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Section No. 3
 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT
 Bill No. 5
 CAPENTRY AND JOINERY

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GATES

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CAPENTRY AND JOINERY

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CAPENTRY AND JOINERY

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p>			
<p><u>BILL NO. 6</u></p>			
<p><u>ROOF COVERINGS, ETC.</u></p>			
<p>For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p>All items are measured net unless otherwise described</p>			
<p><u>Flashings, trimming plates, etc.</u></p>			
<p>Prices to include for all cutting and waste and relevant fixing material, unless otherwise described</p>			
<p>All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable</p>			
<p>All items are unless otherwise described measured net</p>			
<p><u>Roof:</u></p>			
<p><u>The roof sheeting/side cladding shall be a double interlocking concealed-fix Saflok 700 profile roll-formed in continuous lengths and cut to length by pneumatic cut-off process from certified ZincAL 0,5mm steel. A certificate verifying compliance shall be issued by the manufacturer, Safintra roofing. The profile shall be roll formed with 4 ribs and centres not exceeding 233mm and a cover width not exceeding 700mm width. The male rib is to include spurs to ensure a double interlocking action with adjacent sheets. The minimum sheet depth will be 41mm. Two longitudinal stiffening ribs to be incorporated in each pan.</u></p>			
<p>Carried to Collection</p>			
<p>Section No. 3 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT Bill No. 6 ROOF COVERINGS, ETC</p>			
		R	

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Roof Installer:

The roof shall be installed by a Safintra accredited and approved installer, who will present their accreditation to the Architects for their scrutiny before commencing

PROFILED METAL SHEETING AND ACCESSORIES

Saflok 700 0.5mm Thick Colorplus AZ100, Colour to be confirmed, C.1.S finish with standard backing coat Cool Grey G550 interlocking roof sheeting with AZ100 spelter to both sides fixed to timber purlins not exceeding 1900mm centres and to ridge and eaves at not exceeding 1700mm centres. Saflok 700 ZincAL 0.8mm clips fastened with Fixtite Class 4 self tapping wafer head 10 x 22mm for timber fix all in accordance with manufacturer's recommendations.

1	Roof coverings with pitches not exceeding 25 degrees	m2	83
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SHEET METAL FLASHINGS, LININGS, COPIN

Flashing shall be manufactured from Zinc Aluminium AZ150 0.8mm with a Colorplus finish to one side with a Cool Grey backing coat. All clips, brackets, broad flute closures, etc. to be included in rate to fix flashing, all in strict accordance with the manufacturer's specifications using appropriate tools available.

2	Counter flashing 185mm girth, two times bent along girth.	m	14
3	Side wall flashing 462mm girth, two times bent along girth.	m	14

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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT
Bill No. 6
ROOF COVERINGS, ETC

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Section No. 3

ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GATES

Bill No. 6

ROOF COVERINGS, ETC

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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT

Bill No. 6

ROOF COVERINGS, ETC

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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SECTION NO. 3

BILL NO. 7

CEILINGS, ETC.

For Preambles refer to "Department of Public Works:
Specification of material and methods to be used -
PW371"

SUPPLEMENTARY PREAMBLES

Descriptions:

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

SUSPENDED CEILINGS

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Section No. 3
ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT
Bill No. 7
CEILINGS,ETC

UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA

	<p><u>Lafarge Gypsum lay-in grid ceiling system with 600 x 600 x 12mm thick square edged Lafarge Fissured vinyl ceiling tiles, laid on 15 x 38mm high double stitched slotted main tees at 1200mm centres and 15 x 38mm high cross tees at 600mm centres with galvanised exposed face with 600mm cross tees spaced between 1200mm cross tees at 600mm centres all in colour White, including necessary grids, locking type end clips, fire expansion punchouts to main tees, etc. suspended by 25 x 25 x 1,6mm thick galvanised angle cleats at not exceeding 1200mm centres.</u></p>				
1	<p>Sloping ceilings suspended not exceeding 1m below timber purlins at 960mm centres (trusses at 1m centres)</p>	m2	233		
	<p><u>OWAcoustic® Sandila/N Premium Biologically absorbable mineral wool ceiling tiles, size 1200 x 600 x 15mm thick with square edge and white painted finish, laid on fire rated OWAconstruct® S3 exposed demountable Butt-cut T24 suspension system, comprising galvanised main tees and cross tees at with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter finished with OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.</u></p>				
2	<p>Ceilings suspended not exceeding 1m below timber purlins at 900mm centres (trusses not exceeding at 1m centres)</p>	m2	106		
	<p><u>"Owa" cornices to suspended ceilings</u></p>				
3	<p>OWAconstruct Perimeter L-trim, plugged and screwed at 200mm centres, and all installed to manufacturer's instructions.</p>	m	336		
	<p style="text-align: right;">Carried to Collection</p>				
<p>Section No. 3 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT Bill No. 7 CEILINGS,ETC</p>				R	

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Section No. 3

ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GATES

Bill No. 7

CEILINGS,ETC

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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT

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CEILINGS,ETC

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO.8</u></p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p> <p><u>STEEL COLUMNS AND BEAMS</u></p> <p><u>Welded beams in single lengths with flat section bearer and connection plates bolted to brickwalls</u></p>			
1	254 x 146mm x 31 Kg/m H-section x 4500mm long beams	No	9	
	Carried to Collection			R
	Section No. 3 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT Bill No. 8 STRUCTURAL STEELWORK			

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

2	254 x 254mm x 73 Kg/m H-section beams 6315mm long, with 350 x 350 x 10mm thick plate, drilled four (4) times for holes welded to both ends on the beam	No	6
	<u>Steel fixing plates, etc.</u>		
3	400mm x 250 x 12mm Thick base plate six (6) times drilled for bolts and welded to steel columns (bolts and welding e/m)	No	12
	<u>Bolts to columns, beams, and trusses, etc</u>		
4	High tensile bolts	kg	2
5	M16 Gr.8.8 Anchor bolt 150mm long with matching nut and two (2) washers	No	24
	<u>PURLINS, GIRTS, BRACING, ETC</u>		
	<u>Purlins and girts bolted to steel</u>		
6	75 x 50 x 20 x 2,5mm Thick CFLC purlins x 6315mm long	No	9

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 9</u>			
	<u>IRONMONGERY</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs			
	<u>LOCKS</u>			
	<u>PADLOCKS TO STEEL GATES</u>			
1	Padlock (PC Amount R100-00 Vat excl. supplied)	No	5	
	<u>TYPE 2 - OFFICE</u>			
2	Dormakaba Tubular Stainless Steel 155mm long spring loaded lever handle in Stainless Steel finish (Code: TH120BP cylinder).	No	7	
3	Dormakaba Stainless Steel cylinder sash lock (Code: D036S) with 57mm backset.	No	7	
	Carried to Collection			
	Section No. 3 ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT Bill No. 9 IRONMONGERY			R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

4	Dormakaba Satin Nickel 63mm - 31.5 + 31.5mm Grand master keyed E-SP 5 Pin Knob cylinder (Code: DKC206301GMK).	No	7		
5	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	7		
<u>TYPE 3 - ABL STORES</u>					
6	Dormakaba Tubular Stainless Steel 155mm long spring loaded lever handle in Stainless Steel finish (Code: TH120BP cylinder).	No	2		
7	Dormakaba Stainless Steel cylinder sash lock (Code: D036S) with 57mm backset.	No	1		
8	Dormakaba Satin Nickel 63mm - 31.5 + 31.5mm Grand master keyed E-SP 5 Pin double cylinder (Code: DDC206301GMK).	No	1		
9	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	1		
<u>TYPE 4 AND 5 - MALE / FEMALE</u>					
10	Dormakaba mechanical hold open TS 91B cam action slide channel door closer (Code: TS 91B HO) with a closing force of EN 3 for maximum 950mm wide door.	No	2		
Carried to Collection					
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**UPGRADING OF THE STADIUM
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11	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH210BT), size 30mm diameter x 300mm long.	No	2		
12	Dormakaba grade 430 Stainless Steel plate (Code: DPP-430-BL), size 150 x 300 x 1,2mm with 6 (six) counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
13	Dormakaba Stainless Steel cylinder deadlock (Code: D037D) with 57mm backset.	No	2		
14	Dormakaba Brass 43mm master keyed single cylinder (Code: DSC204101)	No	2		
15	Dormakaba 52mm diameter Stainless Steel cylinder escutcheon set (Code: DCE-002).	No	2		
16	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	2		
17	Dormakaba "Male " engraved grade 304 Stainless Steel sign (Code: DSS-130), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
18	Dormakaba "Female" engraved grade 304 Stainless Steel sign (Code: DSS-131), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
	<u>TYPE 6 - ABL - CUBICLES</u>				
19	Dormakaba grade 430 Stainless Steel plate (Code: DPP-430-BL), size 150 x 300 x 1,2mm with 6 (six) counter-sunk fixing holes plugged and screwed with aluminium screws.	No	44		
	Carried to Collection				
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**UPGRADING OF THE STADIUM
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20	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH301CBT), size 19mm diameter x 149mm long.	No	44		
21	Dormakaba M4 patent male/female fixing screws	No	264		
22	Dormakaba Stainless Steel bathroom deadlock (Code: DMWC-SS-008) with 55mm backset.	No	44		
23	Dormakaba 52 x 52mm Stainless Steel square bathroom WC bolt set (Code: DWC-006).	No	44		
24	Dormakaba Stainless Steel hat and coat hook with rubber buffer (Code: DHC-SS-031), size 70 x 25 x 80mm fixed in accordance with the manufacturer's recommendations.	No	44		
	<u>TYPE 7 - ABL- DISABLED</u>				
25	Dormakaba non hold open TS 73V rack and pinion projecting arm door closer (Code: TS 73V) with a closing force of EN 2-4 for maximum 1 100mm wide door.	No	2		
26	Dormakaba Tubular straight Stainless Steel bolt through pull handle (Code: DPH301BBT), size 25mm diameter x 325mm long.	No	4		
27	Dormakaba M4 patent male/female fixing screws	No	12		
28	Dormakaba Stainless Steel bathroom deadlock (Code: D032D) with 57mm backset.	No	4		
29	Dormakaba 52 x 52mm Stainless Steel square bathroom WC bolt set (Code: DWC-006).	No	2		
30	Dormakaba Nickel Plated floor mounted door stop (Code: DDS-NP-018), size 24 x 45mm fixed in accordance with the manufacturer's recommendations.	No	2		
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**UPGRADING OF THE STADIUM
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31	Dormakaba grade 430 Stainless kick plate (Code: DKP-430-SF), size 300 x 900 x 1,2mm with 12 (twelve) counter-sunk fixing holes plugged and screwed with aluminium screws.	No	4
32	Dormakaba "Male & Female" engraved grade 304 Stainless Steel sign (Code: DSS-132), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2
33	Dormakaba "Disabled" engraved grade 304 Stainless Steel sign (Code: DSS-133), size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2
<u>DOOR GRILLES</u>			
<u>Natural anodised aluminium door louvre, ventilation louvre window</u>			
34	Trox or similar approved natural aluminium door louvre size 450 x 300mm high	No	2
35	Trox or similar approved natural aluminium door louvre size 620 x 400mm high	No	3
<u>BATHROOM FITTINGS</u>			
36	Stainless Steel Toilet roll holders overall size 304 x 156 x 140.7mm deep for 2 rolls maximum 108mm diameter with spindle system and cylinder lock with standard key, plugged and screw to the wall with stainless steel screws (PC Amount R5 000-00 each Vat excl)	No	46
37	Stainless Steel overall size 304 x 100 x 134mm deep with a replaceable and refill 1 litre container and cylinder lock with standard key, plugged and screw to the wall with stainless steel screws White (PC Amount R4 000-00 vat excl. supplied)	No	18

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38	Stainless steel Sanitary towel disposal Bin overall size 304 x 205 x 134mm deep with capacity of 6 litres, plugged and screwed to wall with stainless steel screws (PC Amount R3 000-00 vat excl. supplied)	No	29	
39	Stainless steel automatic free Hand Dryer size 284 x 202 x 248mm deep with 2 vandal proof lock screw and key wrench, plugged and screwed to the wall with stainless steel screws, 200w motor connected to 230/24 volt power supply (PC Amount R10 000-00 vat excl. supplied)	No	6	
	<u>"Franke"</u>			
40	Franke CNTX750 Grade 304 18/10 stainless steel 32mm diameter straight grab rail with Franke fine grip (Code: 2510006) 750mm x 95mm deep, plugged and screwed to the wall with stainless steel screws.	No	2	
41	Franke CNTX21 Grade 304 18/10 stainless steel 32mm diameter angle bar with Franke fine grip (Code: 2510008), size 415 x 415 x 95mm deep, plugged and screwed to the wall with stainless steel screws.	No	2	
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**UPGRADING OF THE STADIUM
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<p><u>BILL NO. 10</u></p>			
<p><u>METALWORK</u></p>			
<p>For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Descriptions</u></p>			
<p>Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p>			
<p><u>Drawings</u></p>			
<p>Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc</p>			
<p><u>Drawings</u></p>			
<p>Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc</p>			
<p><u>Pricing.</u></p>			
<p>All window prices should include alluminium louvres as shown</p>			
<p align="right">Carried to Collection</p>			
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

General

Workshop drawings to be approved by the architect before manufacture

WELDED SCREENS, GATES, ETCScreens and gates

- | | | | |
|---|---|----|---|
| 1 | Steel gate 1000 x 2100mm high (PC Amount R2 000-00 Vat excl. supplied and installed by Specialists) | No | 5 |
|---|---|----|---|

SUNDRY METALWORK

Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to concrete

- | | | | |
|---|--|---|------|
| 2 | Two (2) x 150 x 100 x 10kg/m Hot dipped galvanised angle section welded back to back laid in brickwork as lintels above openings | m | 4.80 |
|---|--|---|------|

PRESSED STEEL DOOR FRAMES

1.2mm Double rebated frames suitable for half brick walls

- | | | | |
|---|---------------------------------------|----|---|
| 3 | Frame for door size 813 x 2100mm high | No | 7 |
|---|---------------------------------------|----|---|

1.2mm Double rebated frames suitable for one brick walls

- | | | | |
|---|---------------------------------------|----|---|
| 4 | Frame for door size 813 x 2100mm high | No | 3 |
|---|---------------------------------------|----|---|

- | | | | |
|---|---|----|----|
| 5 | Frame for door size 813 x 2032mm high cut 100mm short at bottom | No | 44 |
|---|---|----|----|

- | | | | |
|---|---------------------------------------|----|---|
| 6 | Frame for door size 900 x 2100mm high | No | 2 |
|---|---------------------------------------|----|---|

ALUMINIUM WINDOWS, DOORS, ETC.

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METALWORK

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Purpose made aluminium doors, sidelights and fanlights glazed with laminated safety glass and plugged to brickwork or concrete</u>			
7	Anodized aluminium window 600 x 900mm high (W01) PC Amount R1 500-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	46	
8	Purpose made aluminium shopfront size 1200 x 2400mm high (AL04) (PC Amount R7 500-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	8	
9	Purpose made aluminium shopfront size 2600 x 2400mm high (AL04) (PC Amount R16 250-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	2	
10	Purpose made aluminium shopfront size 4230 x 2400mm high (AL01) (PC Amount R23 000-00 each VAT excl. supplied, delivered and installed on site by an approved specialist)	No	2	
	<u>STEEL LOUVRE PANELS</u>			
11	Purpose made steel ventilation louvres window 2000 x 600mm(PC amount R 2 000-00 Vat excl. supplied) with standard HT louvres panel and insect proof screen	No	8	
12	Purpose made steel ventilation louvres window 1800 x 2400mm (PC amount R4 500-00 Vat excl. supplied)) with standard HT louvres panel and insect proof screen	No	4	
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METALWORK

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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	<u>BILL NO. 11</u>			
	<u>PLASTERING</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Plastering of concrete soffits</u>			
	The plasterer should make sure that the surface to be plastered does not deviate from the required plane by more than 10mm. All high areas should be removed by hacking or cutting. Fill low areas by applying undercoats of plaster not exceeding 15mm in thickness, apply one coat plaster to surface, leave to stiffen, strike off with a striker board, and wood float to an even surface and to a thickness of 10 - 15mm thick.			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
1	20mm Thick on floors and landings	m2	321	
	<u>Granolithic screed</u>			
2	30mm thick on floors and landings	m2	4	
3	Granolithic skirting 75mm high	m	29	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
4	On walls	m2	830	
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

5	On narrow widths	m2	35	
6	On narrow widths (on top of walls)	m2	28	
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GATES

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PLASTERING

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PLASTERING

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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	<u>SECTION NO. 3</u>			
	<u>BILL NO. 12</u>			
	<u>TILING</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>WALL TILING</u>			
	<u>300 x 600 x 11,5mm Porcelain tiles (PC R300-00/m2 VAT excl. supplied) fixed with approved adhesive to plastered wall with straight joints in both direction flush pointed with tinted jointing compound</u>			
1	On walls	m2	636	
2	On narrow widths, etc.	m2	21	
3	Fair exposed cutting and fitting around pipe not exceeding 100mm diameter	No	56	
4	Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 200mm diameter	No	46	
	<u>FLOOR TILING</u>			
	<u>600 x 600 x 11,5mm Non - Slip porcelain floor tiles (PC R300-00/m2 VAT excl. supplied) fixed with Ceresit Tylon adhesive to screeds (screeds elsewhere) with straight joints in both direction flush pointed with Ceresit Tylon 33 tinted jointing compound</u>			
5	On floors and landings	m2	321	
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

6	Skirting of 600 x 150mm high cut tile <u>240 x 240 x 11,5mm Terracotta ceramic tiles flush pointed with tinted jointing compound on brickwork including cement (PC R300-00/m2 Vat excl. supplied)</u>	m	136
7	External window sills formed of cut tiles to size 110mm wide <u>EDGES, ETC.</u> <u>Sundries</u>	m	30
8	Aluminium edge strip on top of cut skirting (PC Amount R40-00/m Vat excl. supplied)	m	136

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**UPGRADING OF THE STADIUM
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TILING

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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	<u>BILL NO. 14</u>			
	<u>PAINTWORK</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>ON FLOATED PLASTER</u>			
	<u>Plascon Double Velvet to interior new cement plaster (NW 200). Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Double Velvet (VEL) with 2 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u>			
1	On internal walls	m2	208	
	<u>ON SMOOTH CONCRETE</u>			
2	On concrete soffits	m2	106	
	<u>ON FIBRE-CEMENT</u>			
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

3	<p><u>Plascon Polvin Super Acrylic to exterior new fibre cement (NW 105). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p>	m2	136
<u>ON WOOD</u>			
4	<p><u>Plascon Professional Eggshell Enamel to interior new wood. Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat Professional Wood Primer (PP 800) with an overcoating time of 16 hours and finish with two coats Professional Eggshell Enamel (PSB 700) with 16 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u></p>	m2	199
<u>ON METAL</u>			
5	<p><u>Duragloss 100 Enamel long oil alkyd paint to interior shop primed mild steel. Surface to be clean, dry and rust free. Prime surface with one coat Dulux Corrocote 1 (Code: D193-0839) with an overcoating time of 4 hours, undercoat with one coat Dulux Universal Undercoat (Code: D196-0763) with an overcoating time of 18 hours and finish with two coats Duragloss 100 Enamel (Code: M371-0734) with an overcoating time of 18 hours.</u></p>	m2	114

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Plascon Super Universal Enamel to exterior new mild steel. Surface to be clean and dry. Remove surface contaminants using Metalcare Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat Metalcare Mild Steel Primer (UC 501) with an overcoating time of 16 hours and finish with two coats Super Universal Enamel (NY 1/G) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.

6	On steel beams and columns	m2	86
7	On rails, bars, pipes, etc not exceeding 300 mm girth	m	5
8	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	21

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**UPGRADING OF THE STADIUM
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FACILITIES AT THE UNIVERSITY OF VENDA**

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1	FOUNDATIONS	77		
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4	WATERPROOFING	89		
5	CAPENTRY AND JOINERY	92		
6	ROOF COVERINGS, ETC	95		
7	CEILINGS,ETC	98		
8	STRUCTURAL STEELWORK	101		
9	IRONMONGERY	108		
10	METALWORK	112		
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ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GAT				

SECTION 4:
PLUMBING & DRAINAGE

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 1</u></p> <p><u>SOIL DRAINAGE</u></p> <p>For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>Laying, backfilling, bedding, etc. of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p>			
	Carried to Collection			
	<p>Section No. 4 PLUMBING & DRAINAGE Bill No. 1 SOIL DRAINAGE</p>		R	

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

SOIL DRAINAGE

The following in trenches for pipes (pipes e/m)

1	Excavation not exceeding 2m deep	m3	88
2	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	176
3	Backfilling to trenches, holes, with materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density	m3	26
4	Backfilling to trenches, holes, with selected materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density to form fill blanket	m3	35
5	Backfilling to trenches, holes, with selected granular supplied by the contractor materials compacted in 150mm layers to 90% Mod AASHTO density to form bedding cradle	m3	26
6	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	62
7	Keeping excavations free of water		Item

Carried to Collection

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Section No. 4
PLUMBING & DRAINAGE
Bill No. 1
SOIL DRAINAGE

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

<u>uPVC Underground drain pipes including couplings in the running lengths</u>				
8	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	2	
9	110mm Pipes laid in trenches not exceeding 1m deep (trenches e/m)	m	88	
<u>Extra over uPVC pipes for fittings</u>				
10	110mm Bend	No	3	
11	110mm Junction	No	4	
<u>uPVC gulleys</u>				
12	110mm Gully not exceeding 750mm deep, incl of pre-cast concrete surround, excavation etc.	No	5	
<u>MANHOLES, ETC.</u>				
<u>Money Provision:</u>				
13	Provide as sum of R30 000-00 (thirty thousand rand) for the provision of Manholes not clearly defined or detailed at the time of tender but intended for execution by the contractor and valued at rates herein before or omitted if not required.			
			Item	30,000.00
<u>SUNDRIES</u>				
14	Cutting into and join to existing manhole, including all excavations, backfilling, cart away and all necessary pipes and joints, etc.	No	1	
15	110mm "ABC" cleaning eye end of pipe	No	2	
Carried to Collection				
Section No. 4 PLUMBING & DRAINAGE Bill No. 1 SOIL DRAINAGE				R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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PLUMBING & DRAINAGE

Bill No. 1

SOIL DRAINAGE

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 2</u>			
	<u>SANITARY FITTINGS ETC</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>SANITARY FITTINGS</u>			
	<u>"Vaal"</u>			
1	Vaal Sanitaryware vitreous china "Hibiscus" close coupled 90° outlet open rim front single flush suite complete with lid and fitments (Code: 772654), or top dula flush suite (Code:772656)	No	44	
2	Vaal Sanitaryware Pearl Paraplegic vitreous china floor mounted paraplegic wash down suite including grab rails, colour White (Code: 730103WH), or equally approved, comprising semi-close couple 90°outlet open rim wash down pan and matching 9 litre cistern complete with lid, fitments and purpose-made side flush lever and rails (Code: 7300LPWH).	No	2	
3	Vaal Sanitaryware vitreous china 560 x 390mm "Concorde Slimline" (Code: 704700), rectangular self rimming drop in basin intergrated overflow	No	42	
4	Vaal Sanitaryware ceramic fireslay 550 x 400mm rectangular "springbok" basin with two tap holes (Code: 7031) with intergrated overflow and chainstay, and universal half pedestal and hanger mechanism (Code : 715221)	No	2	
	Carried to Collection			R
	Section No. 4 PLUMBING & DRAINAGE Bill No. 2 SANITARY FITTINGS			

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

5	Vaal Sanitaryware vitreous china "Lavatera" back inlet urinal(Code: 705427), overhang size 600 x 385 x 380mm back inlet fittings (Code: 7054Z2) including a 38mm c.p domical grating, a spreader (with a 20mm diameter thread), and two hanger brackets.	No	12
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WASTE UNIONS ETC

"Cobra Watertech"

6	Cobra Watertech 32mm chrome plated anti-theft plug with spindle (Code: 309-32).	No	44
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7	Cobra Watertech 32mm chrome plated slotted basin waste union (no chain or stay) (Code: 303)	No	44
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TRAPS ETC

"Cobra Watertech"

8	Cobra Watertech 40mm chrome plated bottle trap (Code: 365-50) with 75mm deep re-seal, adjustable telescopic pipe and 50mm outlet.	No	56
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Carried to Collection

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Section No. 4
PLUMBING & DRAINAGE
Bill No. 2
SANITARY FITTINGS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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PLUMBING & DRAINAGE

Bill No. 2

SANITARY FITTINGS

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u></p>			
<p><u>BILL NO. 3</u></p>			
<p><u>WATER SUPPLIES</u></p>			
<p>For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>"Polycop" polypropylene pipes:</u></p>			
<p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p>			
<p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p>			
<p>All pipe diameters are nominal external</p>			
<p><u>"Polylink" polypropylene pipes:</u></p>			
<p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints</p>			
<p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured</p>			
<p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers</p>			
<p align="right">Carried to Collection</p>			
<p>Section No. 4 PLUMBING & DRAINAGE Bill No. 3 WATER SUPPLIES</p>			
			R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers

Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same

All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions

All pipe diameters are nominal external

WATER SUPPLIES

The following in trenches for pipes (pipes e/m)

1	Excavation not exceeding 2m deep	m3	65
2	Rip and scarify ground level to a depth of 150mm and consolidate and compacting to 93% Mod AASHTO density at -2% to 1% OMC	m2	92
3	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	185
4	Backfilling to trenches, holes, with materials obtained from excavations compacted in 150mm layers to 90% Mod AASHTO density	m3	18
5	Backfilling to trenches, holes, with selected materials supplied by the contractor compacted in 150mm layers to 90% Mod AASHTO density to form fill blanket	m3	28
6	Backfilling to trenches, holes, with selected granular supplied by the contractor materials compacted in 150mm layers to 90% Mod AASHTO density to form bedding cradle	m3	18

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Section No. 4
PLUMBING & DRAINAGE
Bill No. 3
WATER SUPPLIES

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

7	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	46		
8	Keeping excavations free of water		Item		
	<u>Class 12 black HDPE high density polyethylene pipes with and including "Plasson" compression fittings</u>				
9	22mm Pipes laid in trenches not exceeding 1m deep (trenches e/m)	m	118		
10	32mm Pipes laid in trenches not exceeding 1m deep (trenches e/m)	m	14		
	<u>Extra over class 12 HDPE high density polyethylene pipes with and including "Plasson" compression fittings</u>				
11	22mm Fittings	No	13		
12	32mm Elbow	No	4		
13	32mm Tee	No	4		
14	32mm Junction	No	3		
15	32 x 15mm Reducing elbow	No	6		
16	32 x 22mm Reducing elbow	No	2		
17	32 x 22 x 32mm Reducing junction	No	2		
18	32 x 15 x 32mm Reducing junction	No	4		
	<u>Class 0 copper pipes with capillary couplings</u>				
19	15mm Pipes	m	102		
	Carried to Collection				
	Section No. 4 PLUMBING & DRAINAGE Bill No. 3 WATER SUPPLIES				R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Extra over class 0 copper pipes for capillary fittings</u>				
20	15mm Fittings	No	104		
	<u>TAPS, VALVES, ETC</u>				
	<u>"Cobra Watertech"</u>				
21	Cobra Watertech 15mm MI x FI x 50mm long extension piece (Code: 057-15).	No	12		
22	Cobra Watertech 15mm chrome plated pillar tap (Code: 503-21B) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	2		
23	Cobra Watertech 15mm BSPT stub taper threaded FI x FI cast brass heavy duty fullway gate valve with non-blowout, non rising spindle, non-asbestos gland packing, guided wedge and red pressed steel hand wheel (Code: 1001-125-15mm).	No	3		
24	Cobra Watertech Chrome Slimline Junior Flushmaster exposed flush valve (Code: FJS6-000), installed in accordance with the manufacturer's recommendations.	No	12		
25	Cobra Watertech metering pillar tap with chrome plated finish (Code : KM2-102)	No	42		
26	Cobra Watertech 15mm angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	90		
	<u>SUNDRIES</u>				
27	Cutting into and join 22mm water pipe to 50mm water pipe, including all excavations, backfilling, cart away and all necessary pipes and joints, etc.	No	2		
28	Cutting into and join 22mm water pipe to 32mm water pipe, including all excavations, backfilling, cart away and all necessary pipes and joints, etc.	No	2		
	Carried to Collection				R
	Section No. 4 PLUMBING & DRAINAGE Bill No. 3 WATER SUPPLIES				

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

29 Cutting into and join 32mm water pipe to 32mm water pipe, including all excavations, backfilling, cart away and all necessary pipes and joints, etc.

No 2

30 Cutting into and join 32mm water pipe to 50mm water pipe, including all excavations, backfilling, cart away and all necessary pipes and joints, etc.

No 2

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PLUMBING & DRAINAGE
Bill No. 3
WATER SUPPLIES

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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PLUMBING & DRAINAGE

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WATER SUPPLIES

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PLUMBING & DRAINAGE
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 4</u>			
	<u>SANITARY PLUMBING</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>SANITARY PLUMBING</u>			
	<u>uPVC, soil and vent pipes</u>			
1	50mm Pipes	m	56	
2	110mm Pipes	m	46	
3	50mm Pipes chased into brickwork	m	4	
4	50mm Pipes laid in and including trenches not exceeding 1m deep below surface beds	m	7	
5	110mm Pipes laid in and including trenches not exceeding 1m deep below surface beds	m	1	
	<u>Extra over uPVC, soil and vent pipes for fittings</u>			
6	50mm BSP adaptor	No	56	
7	50mm Reducer	No	4	
8	50mm Bend	No	7	
9	110mm Bend	No	3	
10	110mm P-trap	No	4	
11	110mm Pan connector	No	46	
	Carried to Collection			R
	Section No. 4 PLUMBING & DRAINAGE Bill No. 4 SANITARY PLUMBING			

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

12	50mm Junction	No	8
13	110mm Junction	No	4
14	50mm Access bend	No	7
15	110 x 50 x 110mm Reducing junction	No	4
16	110mm Access bend	No	2
17	50mm Access junction	No	5
18	110mm Access junction	No	7
19	110 x 50 x 50mm Double reducing access junction	No	3
20	110 x 50 x 50mm Double reducing junction	No	3
21	110 x 110 x 110mm Access junction	No	2
22	110 x 110 x 110mm Double junction	No	3
23	110mm GI vent valve	No	5
<u>Sundries</u>			
24	Unreinforced concrete encasing to 50mm horizontal pipe	m	2
25	Unreinforced concrete encasing to 110mm horizontal pipe	m	2

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Section No. 4
PLUMBING & DRAINAGE
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 5</u>			
	<u>WORK IN CONNECTION WITH SECTION BILL 1 TO 4</u>			
	<u>TESTING</u>			
1	Provide all necessary water, etc., for and test the whole of the plumbing services, sanitary fittings, pumps, etc., and in stages as deemed necessary, including chlorination, complete to the satisfaction of the architect and the local authority, replace any defective work free of charge, including any necessary re-testing and leave in perfect condition upon completion			
		Item		
2	Allow for testing and commissioning the whole of the plumbing services, sanitary fittings, pumps, etc., including any necessary re-setting, etc., for optimal performance of the entire system to duration of the contract, maintenance and guarantee period			
		Item		
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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PLUMBING & DRAINAGE

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5	WORK I.C.W BILLS 2 TO 5	141	

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SECTION 5: EXTERNAL WORKS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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SECTION NO. 5

BILL NO 1

FIELD PREPARATIONS

PREAMBLES

For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"

SUPPLEMENTARY PREAMBLES

Nature of ground

The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"

Excavation for working space in rock

Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

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Section No. 5
EXTERNAL WORKS
Bill No. 1
FIELD PREPARATIONS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

EARTHWORKS

BULK EXCAVATION, FILLING, ETC

Open face excavation in earth over sloping site

1	Open face excavation	m3	2,940	
2	Rip and scarify ground level to a depth of 150mm and consolidate to 93% mod. AASHTO density at -2% to 1% OMC at bottom of holes not exceeding 2350 x 2350mm wide	m2	9,800	
3	Weed-killing treatment of surface under paving etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	9,800	
4	Soil poisoning under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	9,800	
5	Keeping excavations free of all water other than subterranean water			Item
<u>Extra over all excavations for carting away</u>				
6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	2,940	
<u>Keeping excavations free of water</u>				
7	Keeping excavations free of water			Item

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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<p><u>SECTION NO. 5</u></p>			
<p><u>BILL NO. 2</u></p>			
<p><u>IRRIGATION SYSTEM</u></p>			
<p>For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>"Polycop" polypropylene pipes:</u></p>			
<p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p>			
<p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p>			
<p>All pipe diameters are nominal external</p>			
<p><u>"Polylink" polypropylene pipes:</u></p>			
<p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints</p>			
<p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured</p>			
<p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers</p>			
<p>Carried to Collection</p>			
<p>Section No. 5 EXTERNAL WORKS Bill No. 2 IRRIGATIONS SYSTEM</p>			
			R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers

Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same

All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions

All pipe diameters are nominal external

WATER SUPPLIES

The following in trenches for pipes (pipes e/m)

1	Excavation not exceeding 2m deep	m3	330
2	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	1,100
3	Backfilling to trenches, holes, with earth filling obtained from the excavations supplied by the contractor compacted in 150mm layers to 90% Mod AASHTO density to form fill blanket	m3	248
4	Backfilling to trenches, holes, with selected granular supplied by the contractor materials compacted in 150mm layers to 90% Mod AASHTO density to form bedding cradle	m3	83
5	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	83
6	Keeping excavations free of water	Item	
<u>uPVC class 9 pipes</u>			
7	50mm Pipes laid in trenches not exceeding 1m deep (trench e/m)	m	744

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Section No. 5
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Bill No. 2
IRRIGATIONS SYSTEM

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

8	63mm Pipes laid in trenches not exceeding 1m deep (trench e/m)	m	173
	<u>Extra over class 9 uPVC Pipes for fittings</u>		
9	50 x 50 x 50 Junction	No	42
10	63 x 50 x 63 Reducing junction	No	4
11	63 x 50mm Reducing elbow	No	3
12	50mm Bend	No	12
13	50mm End cap	No	12
	<u>SPRINKLERS, ETC.</u>		
	<u>Rainbow irrigation or similar approved</u>		
14	"Rain Bird PGA" 40mm solenoid valve	No	2
15	"Rain bird Model 6504FC" 90 Degrees rotor pop-up sprinklers	No	1
16	"Rain bird Model 6504FC" 180 Degrees rotor pop-up sprinklers	No	20
17	"Rain bird Model 6504FC" 360 Degrees rotor pop-up sprinklers	No	21

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EXTERNAL WORKS
Bill No. 2
IRRIGATIONS SYSTEM

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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EXTERNAL WORKS

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IRRIGATIONS SYSTEM

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EXTERNAL WORKS

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IRRIGATIONS SYSTEM

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 5</u></p>			
<p><u>BILL NO. 3</u></p>			
<p><u>SUB-SOIL DRAINAGE</u></p>			
<p>For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>uPVC pipes and fittings:</u></p>			
<p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p>			
<p><u>uPVC pressure pipes and fittings:</u></p>			
<p>Pipes for water supply shall be of the class stated</p>			
<p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p>			
<p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p>			
<p><u>Laying, backfilling, bedding, etc. of pipes</u></p>			
<p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p>			
<p align="right">Carried to Collection</p>			
<p>Section No. 5 EXTERNAL WORKS Bill No. 3 SUB-SOIL DRAINAGE</p>			
			R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding

SOIL DRAINAGE

The following in trenches for pipes (pipes e/m)

1	Excavation not exceeding 2m deep	m3	252
2	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	1,009

uPVC Underground drain pipes including couplings in the running lengths

3	110mm Slotted uPVC agricultural pipes (e/m)	m	920
4	160mm Pipes laid in trenches not exceeding 1m deep (trenches e/m)	m	89

Extra over uPVC Underground drain pipes for fittings

5	160mm End cap	No	11
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FILTER FABRIC

"Kaytech Engineered Fabric" or similar approved laid in strict accordance to the manufacturer's instructions

6	"Kaymat U14" around stone filling in sub-soil drain trenches	m2	2,017
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Section No. 5
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SUB-SOIL DRAINAGE

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>19mm Graded stone filling or similar approved</u>			
7	In holes	m3	252	
	<u>THE FOLLOWING IN CATCHPITS, JUNCTION BOXES AND INLET MANHOLES, ETC.</u>			
	<u>EXCAVATIONS</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
8	Excavation not exceeding 2m deep	m3	79	
9	Rip and scarify ground level to a depth of 150mm and consolidate and compacting to 93% Mod AASHTO density at -2% to 1% OMC			
		m2	63	
	<u>Extra over all excavations for carting away</u>			
10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	50	
	<u>Risk of collapse of excavations</u>			
11	Sides of trench and hole excavations not exceeding 1,5m deep	m2	132	
	<u>Keeping excavations free of water</u>			
12	Keeping excavations free of water		Item	
	<u>FILLING ETC</u>			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density at -2% to 1% OMC</u>			
13	Backfilling to trenches, holes, etc	m3	30	
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Prescribed density tests on filling</u>		
14	"Modified AASHTO Density" test	No	11
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	<u>15MPa/19mm concrete</u>		
15	Surface blinding under footings and bases	m3	1.99
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	<u>30MPa/19mm concrete</u>		
16	Bottoms of catchpits, etc.	m3	0.21
17	Slabs of catchpits	m3	3
	<u>CONCRETE SUNDRIES</u>		
	<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>		
18	Surface beds, slabs, etc	m2	57
	<u>TEST CUBES</u>		
19	Allow for preparing a set of three (3) concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	No	6
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>		
	<u>Smooth formwork to sides</u>		
20	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	231
	<u>REINFORCEMENT</u>		
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Fabric reinforcement</u>		
21	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m ² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	40
	<u>MASONRY</u>		
	<u>Brickwork of NFP bricks in class II mortar</u>		
22	One brick walls	m2	73
	<u>BRICKWORK SUNDRIES</u>		
	<u>Brickwork reinforcement</u>		
23	150mm Wide reinforcement built in horizontally	m	864
	<u>Holes</u>		
24	Leave or form opening through one brickwall for pipe exceeding 200mm and n.e 300mm diameter	No	11
25	Leave or form opening through one brickwall for pipe exceeding 200mm	No	11
	<u>INTERNAL PLASTER</u>		
	<u>Cement plaster on brickwork</u>		
26	On walls	m2	63
	<u>Cement screeds</u>		
27	20mm Thick on bottoms of catchpits	m2	23
	<u>COVERS, ETC.</u>		
	<u>Gratings, covers, etc</u>		
28	1550 x 1500mm x 60,2kg Stormwater catchpit cover and frame complete	No	11

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**UPGRADING OF THE STADIUM
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SUB-SOIL DRAINAGE

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EXTERNAL WORKS

Bill No. 3

SUB-SOIL DRAINAGE

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 4</u>			
	<u>APRONS AROUND BUILDINGS</u>			
	For Preambles refer to "Department of Public Works: Specification of material and methods to be used - PW371"			
	<u>EARTHWORKS</u>			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	99	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Excavate in pickable earth to reduce ground level below aprons and cart away excavated material to a dumping place not exceeding 1000mm from site	m3	20	
3	Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density	m2	99	
	<u>Compaction of surfaces</u>			
4	Compaction of ground surface under aprons including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density	m2	99	
	Carried to Collection			
	Section No. 5			
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	APRONS AND STORM WATER CHANNELS			

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

<u>Prescribed density tests on filling</u>				
5	"Mod. AASHTO Density" test	No	10	
<u>SOIL POISONING</u>				
<u>Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee</u>				
6	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	99	
<u>Weedkiller mixed in accordance to supplier's specifications</u>				
7	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	99	
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<u>15 MPa/20 mm concrete</u>				
8	Aprons cast in panels to falls	m3	10	
9	Extra over concrete in surface bed for thickening 100mm deep, 300mm wide at top and tapering on one side to 200mm thick at bottom incl. of all excavations, cart away etc.	m	82	
<u>Finishing top surfaces of concrete smooth with a wood float</u>				
10	Aprons to falls	m2	99	
<u>Smooth formwork to sides</u>				
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	82	
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Section No. 5 EXTERNAL WORKS Bill No. 4 APRONS AND STORM WATER CHANNELS				R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

TEST CUBES

12 Allow for preparing a set of three (3) concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.

No 9

REINFORCEMENT

Fabric reinforcement

13 Steeledale Mesh standard square fabric mesh, nominal mass 2,45 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 245), complying with SANS 1024/2006 requirements cut 1000mm to match aprons

m 82

MOVEMENT JOINTS ETC

Joint forming material in movement joints

14 10mm Thick "Jointex" not exceeding 300mm wide fixed vertically between concrete and brick walls

m 82

Sika Primer-3N one component epoxy polyurethane based primer for joint sealants (Sikaflex-PRO 2HP and Sikaflex 11FC), applied in accordance with the manufacturer's instructions.

"Sika" Construction chemicals

15 10 x 10mm In isolation joints including removing all loose materials with a wire brush, water or sand blasting if necessary, remove all traces of release agents etc., apply bond breaker or backing cord, apply Sika Primer 3 and Sikaflex-Pro 2HP within one (1) to five (5) hours of applying Sika Primer 3 all in strict accordance of manufacturer's instructions.

m 82

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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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EXTERNAL WORKS

Bill No. 4

APRONS AND STORM WATER CHANNELS

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Bill No. 4

APRONS AND STORM WATER CHANNELS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item
No

Quantity

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SECTION NO 5**BILL NO. 5****PAVING AROUND SOCCER PITCH****SUPPLEMENTARY PREAMBLES**

Materials and workmanship must be in accordance to the following SABS 1200 specifications:

- C - Site clearance
- D - Earthworks
- DM - Earthworks (Roads, subgrade)
- M - Roads (General)
- ME - Sub-base
- MF - Base
- MK - Kerb and Channeling
- MM - Ancillary Roadworks

Soil poisoning and weed killer

Soil insecticide and weed killer to be executed with SABS compliance by a firm of specialists under a 5 year guarantee under paving

EXCAVATION, FILLING, ETC**Open face excavation in earth over site**

1	Stripping average 100mm thick layer of top soil and stockpiling on site not exceeding 1000m from excavations as directed the Project Manager	m2	800	
2	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	157	
3	Excavate in pickable earth to reduce ground level below paving and but cart away excavated material to a dumping place to be found by the contractor (cut to spoil)	m3	157	

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Bill No. 5
PAVING AROUND SOCCER PITCH

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

4	Rip and scarify ground level to a depth of 150mm and consolidate to 93% mod. AASHTO density (minimum CBR 5)	m2	800
	<u>Walkway layers</u>		
	The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.		
	Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit		
5	Selected filling previously set aside laid in 150mm thick layers to 96% mod. AASHTO density, PI \leq 6, Grading Modules = 2,6 \geq GM \geq 1,2	m3	67
6	150mm Thick imported G6 material laid in 150mm thick layers and compacted to 96% mod. AASHTO density, PI \leq 6, Grading Modules = 2,6 \geq GM \geq 1,2 (Layer 1)	m2	800
7	150mm Thick imported G6 material laid in 150mm thick layers and compacted to 96% mod. AASHTO density, PI \leq 6, Grading Modules = 2,6 \geq GM \geq 1,2 (Layer 2)	m2	800
8	"Mod. AASHTO Density" test	No	20

WALKWAYS

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Section No. 5
EXTERNAL WORKS
Bill No. 5
PAVING AROUND SOCCER PITCH

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

<u>Interlocking paving</u>				
9	60mm Thick double interlocking (DZZ) precast grey coloured concrete paving blocks laid in a herringbone pattern on and including 25mm thick washed river sand founding layer and covered with plaster sandlayer vibrated into joints with a plate vibrator all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m2	800	
10	Weed-killing treatment of surface under paving etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	800	
11	Soil poisoning under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	800	
<u>Kerbs, etc</u>				
12	Precast concrete figure 8B kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	800	
13	Extra over cutting paving blocks to fit edge	m	800	
14	Extra over circular cutting paving blocks to fit edge	m	15	
<u>Sundries</u>				
15	Mass concrete (25MPa) in 60 x 60mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc	m	815	
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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PAVING AROUND SOCCER PITCH

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PAVING AROUND SOCCER PITCH

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 5</u>			
	<u>BILL NO. 6</u>			
	<u>PAVING AROUND SOCCER PITCH</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Materials and workmanship must be in accordance to the following SABS 1200 specifications:</u>			
	C - Site clearance			
	D - Earthworks			
	DM - Earthworks (Roads, subgrade)			
	M - Roads (General)			
	ME - Sub-base			
	MF - Base			
	MK - Kerb and Channeling			
	MM - Ancillary Roadworks			
	<u>Soil poisoning and weed killer</u>			
	Soil insecticide and weed killer to be executed with SABS compliance by a firm of specialists under a 5 year guarantee under paving			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	995	
	<u>Open face excavation in earth over site</u>			
2	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	84	
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	Section No. 5			
	EXTERNAL WORKS			
	Bill No. 6			
	PAVING AROUND WALKWAY AROUND FENCE			

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

3	Excavate in pickable earth to reduce ground level below paving and but cart away excavated material to a dumping place to be found by the contractor (cut to spoil)	m3	192
4	Rip and scarify ground level to a depth of 150mm and consolidate to 93% mod. AASHTO density (minimum CBR 5)	m2	995
<u>Walkway layers</u>			
The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.			
Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit			
5	Selected filling previously set aside laid in 150mm thick layers to 96% mod. AASHTO density, PI \leq 6, Grading Modules = 2,6 \geq GM \geq 1,2	m3	84
6	Imported filling laid in 150mm thick layers to 96% mod. AASHTO density, PI \leq 6, Grading Modules = 2,6 \geq GM \geq 1,2	m3	195
7	"Mod. AASHTO Density" test	No	10

WALKWAYS

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Section No. 5
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Bill No. 6
PAVING AROUND WALKWAY AROUND FENCE

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Interlocking paving</u>			
8	60mm Thick double interlocking (DZZ) precast grey coloured concrete paving blocks laid in a herringbone pattern on and including 25mm thick washed river sand founding layer and covered with plaster sandlayer vibrated into joints with a plate vibrator all laid on subgrade conforming to SANS 1200 D Degree Of Accuracy I. Paving to be inspected and re-sanded after three months.	m2	995	
9	Weed-killing treatment of surface under paving etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	995	
10	Soil poisoning under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	995	
	<u>Kerbs, etc</u>			
11	Precast concrete figure 8B kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	708	
12	Precast concrete figure 8B kerb (SABS 927) <i>circular on kerb</i> , levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	88	
13	Extra over cutting paving blocks to fit edge	m	708	
14	Extra over circular cutting paving blocks to fit edge	m	88	
	Carried to Collection			R
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Sundries

15 Mass concrete (25MPa) in 60 x 60mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc

m

796

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PAVING AROUND WALKWAY AROUND FENCE

**UPGRADING OF THE STADIUM
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PAVING AROUND WALKWAY AROUND FENCE

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PAVING AROUND WALKWAY AROUND FENCE

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 7</u>			
	<u>PERIMETER FENCING AROUND SOCCER PITCH</u>			
	<u>EARTHWORKS</u>			
	<u>EXCAVATIONS</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Holes	m3	16	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site not exceeding 1km from the excavations as indicated by the Project Manager	m3	16	
	<u>Risk of collapse of excavations</u>			
3	Sides of trench and hole excavations not exceeding 1,5m deep	m2	164	
	<u>Keeping excavations free of water</u>			
4	Keeping excavations free of water		Item	
	<u>SOIL POISONING</u>			
	<u>Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee</u>			
5	To bottoms and sides of trenches etc	m2	191	
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Weedkiller mixed in accordance to supplier's specifications</u>			
6	To bottoms and sides of trenches etc	m2	191	
	<u>CONCRETE, FORMWORK & REINFORCEMENT</u>			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>30MPa/19mm concrete</u>			
7	Bases	m3	16	
	<u>TEST CUBES</u>			
8	Allow for preparing a set of three (3) concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	No	4	
	<u>FENCING</u>			
	<u>FENCING</u>			
	<u>Approved fencing</u>			
9	Anti-climbing and anti-cut pressed mesh panel fencing 1,8m high, with posts at 3,382m centres (PC Amount R1 500-00/m Vat excl. supplied)	m	578	
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates including rails, frames, sliding gear, locks, etc.</u>			
10	Single gate 1200 x 1800mm high (PC Amount R3 000-00 Vat excl. supplied and installed on site)	No	2	
11	Sliding gate 6000 x 1800mm high (PC Amount R6 000-00 Vat excl. supplied and installed on site)	No	2	
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

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EXTERNAL WORKS

Bill No. 7

PERIMETER FENCE AROUND FIELD

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EXTERNAL WORKS

Bill No. 7

PERIMETER FENCE AROUND FIELD

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<u>SECTION NO.5</u>			
	<u>BILL NO. 8</u>			
	<u>BOUNDARY WALLS</u>			
	<u>ALTERATIONS</u>			
	<u>REMOVAL OF EXISTING WORKS</u>			
	<u>Removal of existing work:</u>			
1	Remove existing pre-cast concrete walls (stop nosense) and hand over to the client	m2		680
	<u>EARTHWORKS</u>			
	<u>EXCAVATIONS</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Trenches	m3		326
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3		16
4	Hard rock	m3		16
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3		238
	<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2		1,088
	Carried to Collection			
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**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water		Item	
	<u>FILLING ETC</u>			
	<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	88	
	<u>SOIL POISONING</u>			
	<u>Soil insecticide to be executed with SABS compliance by a firm of specialists under a 10 year guarantee</u>			
9	To bottoms and sides of trenches etc	m2	1,496	
	<u>Weedkiller mixed in accordance to supplier's specifications</u>			
10	To bottoms and sides of trenches, etc.	m2	1,496	
	<u>CONCRETE, FORMWORK & REINFORCEMENT</u>			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>15MPa/19mm concrete</u>			
11	Surface blinding under footings and bases	m3	20	
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/20mm concrete</u>			
12	Strip footings	m3	163	
	<u>REINFORCEMENT</u>			
	Carried to Collection			R
	Section No. 5 EXTERNAL WORKS Bill No. 8 BOUNDARY WALL			

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Mild steel reinforcement to structural concrete work</u>				
13	10mm Diameter bars	t	7.18		
	<u>High tensile steel reinforcement to structural concrete work</u>				
14	16mm Diameter bars	t	10.77		
	<u>TEST CUBES</u>				
15	Making and testing 150 x 150 x 150mm concrete strength test cube	No	10		
	<u>MASONRY</u>				
	<u>BRICKWORK</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
16	One brick walls	m2	1,337		
17	One brick walls in foundations	m2	238		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
18	150mm Wide reinforcement built in horizontally	m	16,800		
19	150mm Wide reinforcement built in horizontally (foundations)	m	2,800		
	<u>FACE BRICKWORK</u>				
	<u>Face clay face brick, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zone 1-2 (PC Amount R10 000-00/1000 VAT excl. supplied and delivered to site)</u>				
20	Extra over brickwork for face brickwork	m2	2,675		
	Carried to Collection				
	Section No. 5 EXTERNAL WORKS Bill No. 8 BOUNDARY WALL				
					R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces (PC Amount R10 000-00/1000 VAT excl. supplied and delivered to site)

21	Coping on top of one brick wall	m	637		
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METALWORK

WELDED SCREENS, GATES, ETC

Steel gates including rails, frames, sliding gear, locks, etc.

22	Single gate 1200 x 1800mm high (PC Amount R3 000-00 Vat excl. supplied and installed on site)	No	6		
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23	Sliding gate 6000 x 1800mm high (PC Amount R6 000-00 Vat excl. supplied and installed on site)	No	6		
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Carried to Collection

R

Section No. 5
EXTERNAL WORKS
Bill No. 8
BOUNDARY WALL

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Section No. 5

EXTERNAL WORKS

Bill No. 8

BOUNDARY WALL

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

173

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175

176

Carried Forward to Summary of Section No. 5

R

Section No. 5
EXTERNAL WORKS
Bill No. 8
BOUNDARY WALL

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Section No. 5

EXTERNAL WORKS

SECTION SUMMARY - EXTERNAL WORKS

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Amount

1	FIELD PREPARATIONS	146
2	IRRIGATIONS SYSTEM	150
3	GROUNDS PREPARATIONS	156
4	APRONS AND STORM WATER CHANNELS	160
5	PAVING AROUND SOCCER PITCH	164
6	PAVING AROUND WALKWAY AROUND FENCE	169
7	PERIMETER FENCE AROUND FIELD	172
8	BOUNDARY WALL	177

Carried to Final Summary

Section No. 5
EXTERNAL WORKS

R

SECTION 6: PROVISIONAL SUMS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No	Quantity	Rate	Amount
<u>SECTION NO.6</u>			
<u>BILL NO. 1</u>			
<u>PROVISIONAL SUMS</u>			
<u>PROVISIONAL SUMS</u>			
<u>PROVISIONAL SUMS FOR SELECTED SUB- CONTRACT WORKS</u>			
<u>Electrical installation</u>			
1			
Provide a sum of R1 850 000-00 (One million eight hundred and fifty thousand rand) for electrical installation by Specialists	Item		1,850,000.00
2			
Allow for profit on above if required (Excluded from CPAP)	Item		
3			
Allow for giving every facility to specialist as described	Item		
<u>Track and Field</u>			
4			
Provide an amount of R8 000 000.00 (eight million rand) for the supply and installation of Track and Field in line with other by Specialists	Item		8,000,000.00
5			
Allow for profit on above if required	Item		
6			
Allow for giving every facility to Specialists as described	Item		
<u>Irrigation Pump</u>			
7			
Provide an amount of R100 000.00 (one hundred thousand rand) for the supply and installation of Irrigation Pump by Specialists	Item		100,000.00
8			
Allow for profit on above if required	Item		
Carried to Collection			R
Section No. 6 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS			

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

9	Allow for giving every facility to Specialists as described <u>Mild Steel balustrade</u>	Item	
10	Provide an amount of R75 000 (seventy five thousand rand) for the supply and installation of 1000mm high mild steel balustrade System by Specialists	Item	75,000.00
11	Allow for profit on above if required	Item	
12	Allow for giving every facility to Specialists as described <u>Timber Roof Construction</u>	Item	
13	Provide the sum of R300 000,00 (three hundred thousand rand) for the supply and installation of Timber Roof Construction by Specialists (Ablution Block and Office Block)	Item	300,000.00
14	Allow for giving every facility to Specialists as described	Item	
15	Allow for profit on above if required <u>Steel columns (roof support), etc.</u>	Item	
16	Provide the sum of R10 000,00 (ten thousand rand) for the supply and installation of Steel columns to support Timber Roof Construction by Specialists (Ablution Block)	Item	10,000.00
17	Allow for giving every facility to Specialists as described	Item	
18	Allow for profit on above if required <u>Steel Screens, etc</u>	Item	
19	Provide the sum of R75 000,00 (seventy five thousand rand) for the supply and installation of Steel screens by Specialists (Office block)	Item	75,000.00
Carried to Collection			
			R
Section No. 6 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS			

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

20	Allow for giving every facility to Specialists as described	Item	
21	Allow for profit on above if required	Item	
	<u>Joinery Installation</u>		
22	Provide sum of R15 000-00 (fifteen thousand rand) for the supply and installation of Joinery Installation by Specialists	Item	15,000.00
23	Allow for profit on above if required (Excluded from CPAP)	Item	
24	Allow for giving every facility to specialist as described	Item	
	<u>Steel tank and Pressure Valves</u>		
25	Provide the sum of R900 000-00 (nine hundred thousand rand) for the supply and installation of a 100kl tank and stand	Item	900,000.00
26	Allow for giving every facility to Specialists as described	Item	
27	Allow for profit on above if required	Item	
	<u>Generator</u>		
28	Provide sum of R800 000-00 (eight hundred thousand rand) for the supply and installation of steel staircase by Specialists	Item	800,000.00
29	Allow for profit on above if required (Excluded from CPAP)	Item	
30	Allow for giving every facility to specialist as described	Item	
	Carried to Collection		
	Section No. 6 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS		R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

	<u>Sheltered Benches</u>		
31	Provide the sum of R300 000,00 (three hundred thousand rand) for the supply and installation of Sheltered Benches by Specialists	Item	300,000.00
32	Allow for giving every facility to Specialists as described	Item	
33	Allow for profit on above if required	Item	
	<u>Goal Posts</u>		
34	Provide sum of R50 000-00 (fifty thousand rand) for the supply and installation of Goal Posts by Specialists	Item	50,000.00
35	Allow for profit on above if required (Excluded from CPAP)	Item	
36	Allow for giving every facility to specialist as described	Item	
	<u>Scoreboard</u>		
37	Provide the sum of R75 000-00 (seventy five thousand rand) for the supply and installation of an electronic scoreboard	Item	75,000.00
38	Allow for giving every facility to Specialists as described	Item	
39	Allow for profit on above if required	Item	
	<u>Servicing of air conditioning</u>		
40	Provide sum of R50 000-00 (fifty thousand rand) for the servicing of air conditioning by Specialists	Item	50,000.00
	Carried to Collection		R
	Section No. 6		
	PROVISIONAL SUMS		
	Bill No. 1		
	PROVISIONAL SUMS		

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

41	Allow for profit on above if required (Excluded from CPAP)	Item	
42	Allow for giving every facility to specialist as described	Item	
	<u>Removal of Roof Covering and installation of new</u>		
43	Provide the sum of R2 750 000-00 (Two million seven hundred and fifty thousand rand) for Roof coverings removal and installation by Specialists (Stadium)	Item	2,750,000.00
44	Allow for giving every facility to Specialists as described	Item	
45	Allow for profit on above if required	Item	
	<u>Painting of Steel Roof Trusses</u>		
46	Provide the sum of R450 000-00 (four hundred and fifty thousand rand) for the painting of Steel Roof Trusses by Specialists	Item	450,000.00
47	Allow for giving every facility to Specialists as described	Item	
48	Allow for profit on above if required	Item	
	<u>Waterproofing, etc.</u>		
49	Provide a sum of R400 000,00 (four hundred thousand rand) for waterproofing of existing concrete slabs roof, by Specialists	Item	400,000.00
50	Allow for profit on above if required	Item	
51	Allow for giving every facility to Specialists as described	Item	
	<u>Roof Coverings, etc.</u>		
52	Provide the sum of R415 000-00 (Four hundred and fifteen thousand rand) for Roof coverings removal and installation by Specialists (Ablution and Office)	Item	415,000.00
	Carried to Collection		
	Section No. 6 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS		R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

53	Allow for giving every facility to Specialists as described	Item	
54	Allow for profit on above if required	Item	
	<u>Turnstiles, etc.</u>		
55	Provide the sum of R600 000-00 (Six hundred and thousand rand) for the supply and installation of Turnstiles by Specialists	Item	600,000.00
56	Allow for giving every facility to Specialists as described	Item	
57	Allow for profit on above if required	Item	
	<u>Air Conditioning to Offices</u>		
58	Provide the sum of R200 000-00 (two hundred thousand rand) for Air conditioning installation by Specialists	Item	200,000.00
59	Allow for giving every facility to Specialists as described	Item	
60	Allow for profit on above if required	Item	
Carried to Collection			
Section No. 6 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS			R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Section No. 6

PROVISIONAL SUMS

Bill No. 1

PROVISIONAL SUMS

COLLECTION

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Section No. 6

PROVISIONAL SUMS

Bill No. 1

PROVISIONAL SUMS

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Item No		Quantity	Rate	Amount
	<u>SECTION NO 6</u>			
	<u>BILL NO 2</u>			
	<u>PROVISIONAL AMOUNTS ETC</u>			
	<u>PROVISIONAL SUMS FOR SELECTED SUB- CONTRACT WORKS</u>			
	<u>HOLES THROUGH WALLS</u>			
	<u>Holes</u>			
1	Leave or form opening through one brickwall for pipe n.e 100mm diameter	No	2	
2	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	3	
	<u>SLEEVES</u>			
	<u>Plastic sleeves for pipes not exceeding 100mm diameter</u>			
3	Sleeve not exceeding 250mm long	No	2	
4	Sleeve exceeding 250mm and not exceeding 500mm long	No	3	
	<u>Plastic sleeves for pipes exceeding 100mm and not exceeding 200mm diameter</u>			
5	Sleeve not exceeding 250mm long	No	2	
6	Sleeve exceeding 250mm and not exceeding 500mm long	No	2	
	<u>HOLES ETC</u>			
	Carried to Collection			
	Section No. 6 PROVISIONAL SUMS Bill No. 2 BUILDERS WORK			R

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Section No. 6

PROVISIONAL SUMS

Bill No. 2

BUILDERS WORK

COLLECTION

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Amount

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Section No. 6
PROVISIONAL SUMS
Bill No. 2
BUILDERS WORK

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Section No. 6

PROVISIONAL SUMS

SECTION SUMMARY - PROVISIONAL SUMS

Bill No	PROVISIONAL SUMS	Page No	Amount
1	PROVISIONAL SUMS	185	
2	BUILDERS WORK	188	
Carried to Final Summary			R
Section No. 6 PROVISIONAL SUMS			

FINAL SUMMARY

**UPGRADING OF THE STADIUM
FACILITIES AT THE UNIVERSITY OF VENDA**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	30	
2	ALTERATIONS	69	
3	ABLUTION, 2 x OFFICE BLOCKS AND ENTRANCE GATES	124	
4	PLUMBING & DRAINAGE	142	
5	EXTERNAL WORKS	178	
6	PROVISIONAL SUMS	189	
	<u>Sub Total before VAT</u>		
	Sub Total 1 - BUILDING COSTS		R
	CREDIT FOR ALL REUSABLE MATERIALS REMOVED FROM DEMOLITION WORKS	Item	
	Sub-total		R
	<u>CONTINGENCY SUM</u>		
	Allow the amount of R700 000-00 (Seven hundred thousand rand) for Contingencies for building work, to be used as directed by the Project Manager and deducted in whole or in part if not required	Item	700,000.00
	<u>SPECIAL CONDITIONS</u>		
	Provide the sum of R500 000,00 (Five hundred thousand rand) for fluctuations in cost	Item	500,000.00
	<u>SPECIAL CONDITIONS</u>		
	Sub Total (VAT EXCL.) CARRIED TO TENDER FORM		R
	Tax		R
	Carried Forward		R

ARCHITECTS DRAWINGS

NO	DATE	AMENDMENT

REVIT 2021
KMS ARCHITECTS
 101, WILSON ROAD, #02-01
 SINGAPORE 121888
 TEL: +65 6339 1234
 FAX: +65 6339 1235
 WWW: KMSARCHITECTS.COM

Client
University of Venda
 Limpopo, South Africa

Project
AS BUILT STADIUM FOR UNIVERSITY OF VENDA

Scale
 UNIVERSITY OF VENDA

Project No
 UNIVERSITY OF VENDA

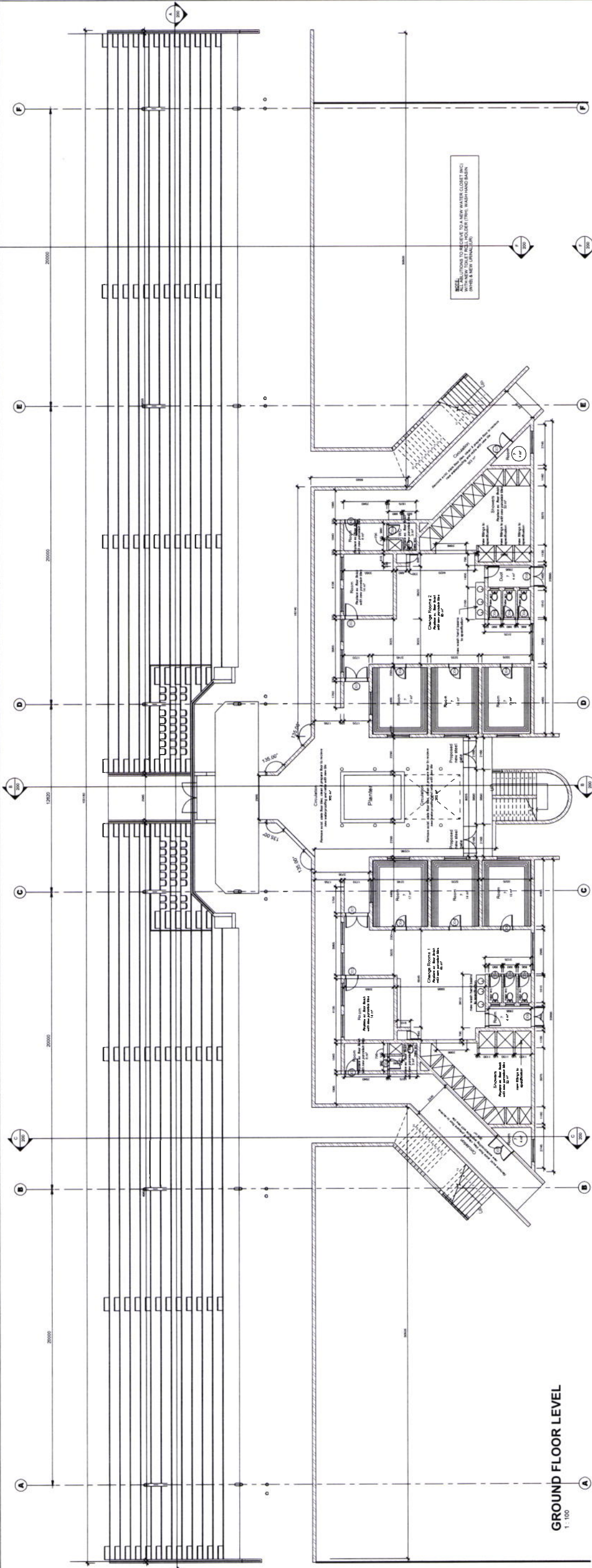
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Project Location
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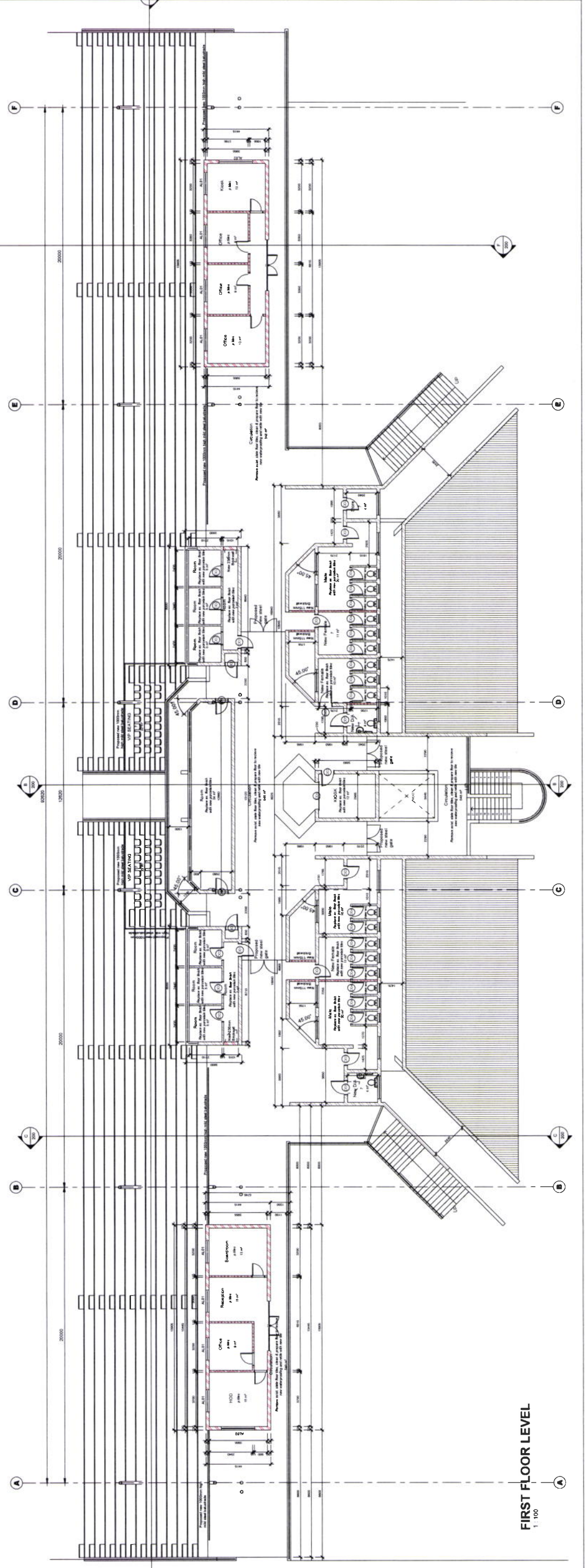
Project Status
 AS BUILT

Project Date
 2021

Project Number
 100



GROUND FLOOR LEVEL
 1:100



FIRST FLOOR LEVEL
 1:100


NO	DATE	AMENDMENT

cad file name
REVIT 2021



KIMS
ARCHITECTS

150 MALDEN STREET
OFFICE PARK, UNIT 27
EAST WILSON ROAD
WILSON, WEST VIOLET RD
PILLOWANE

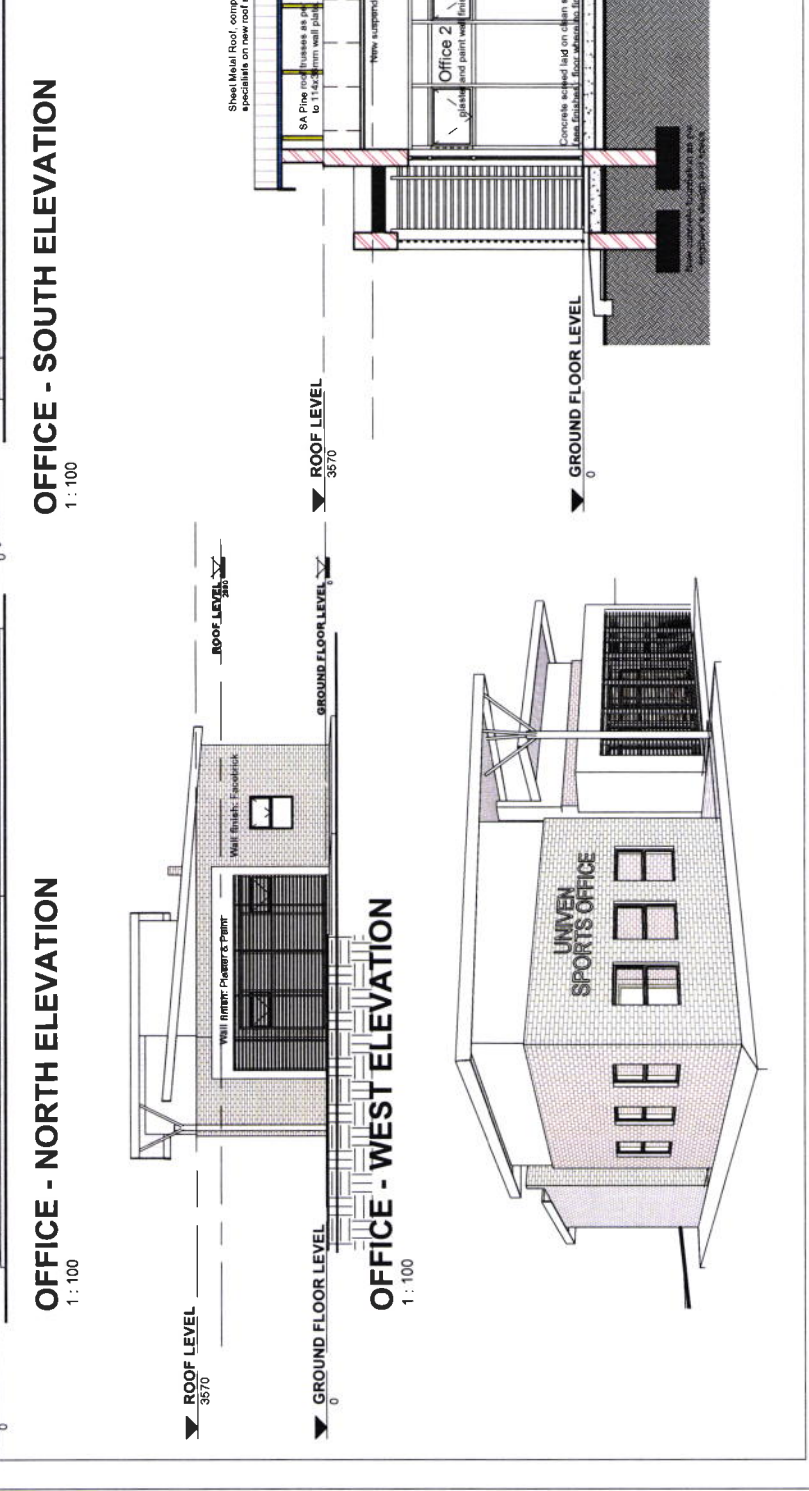
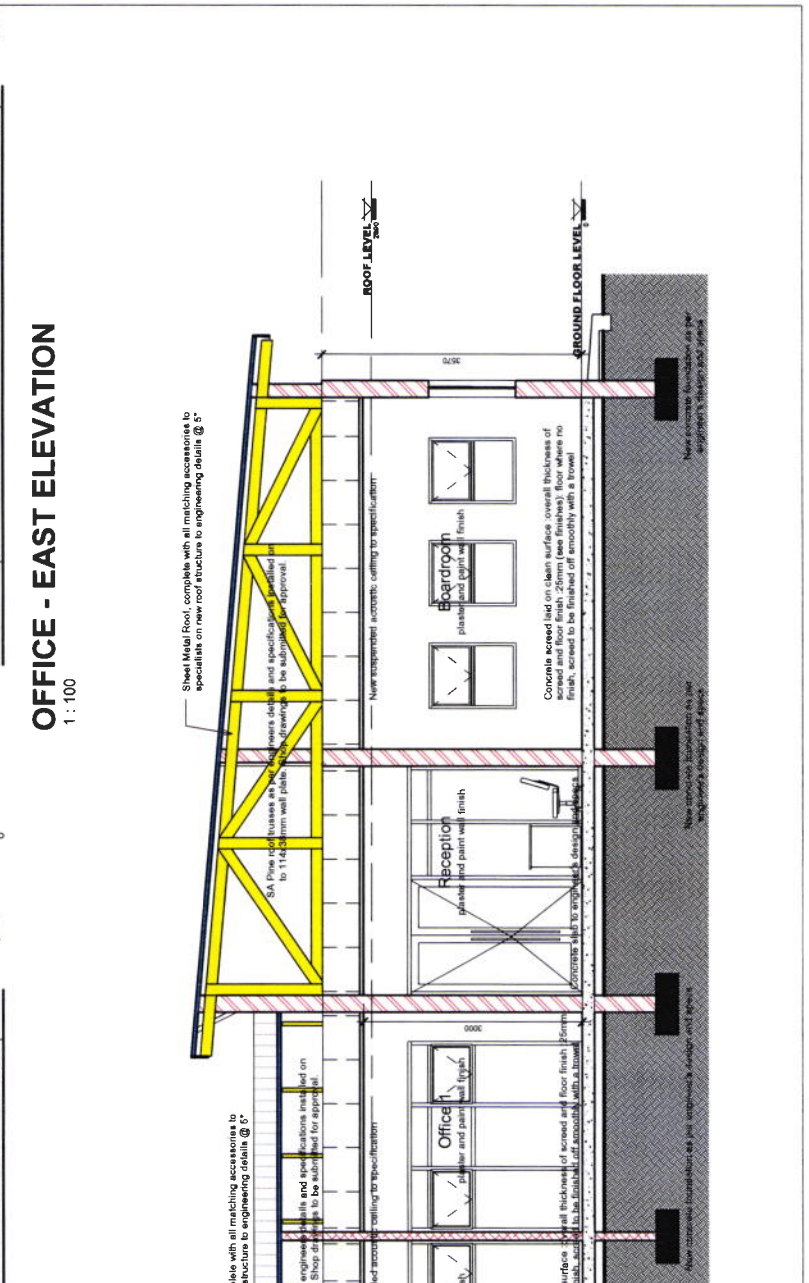
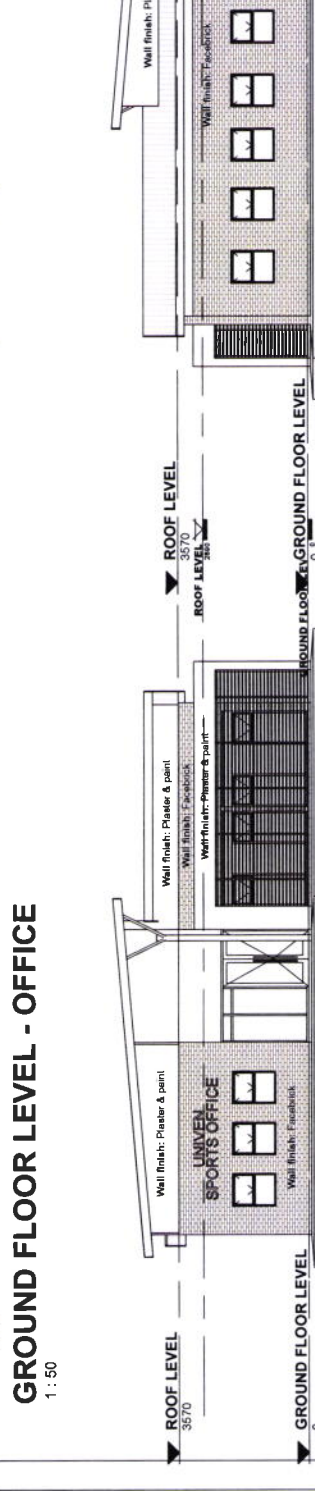
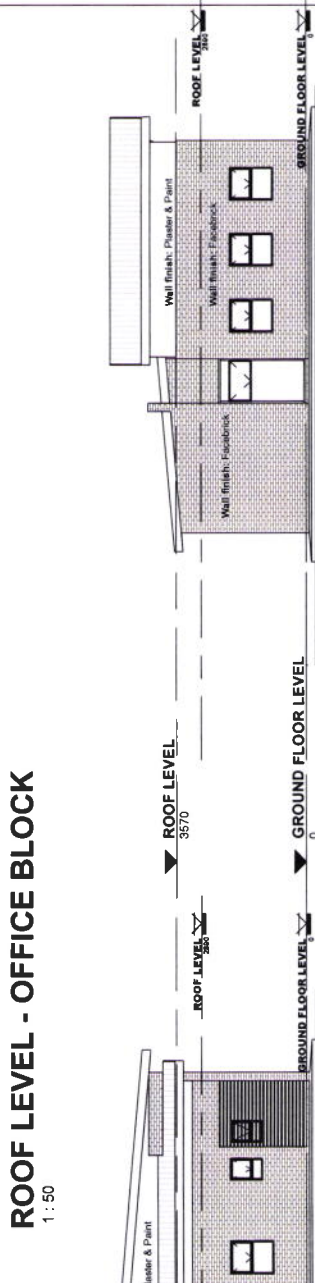
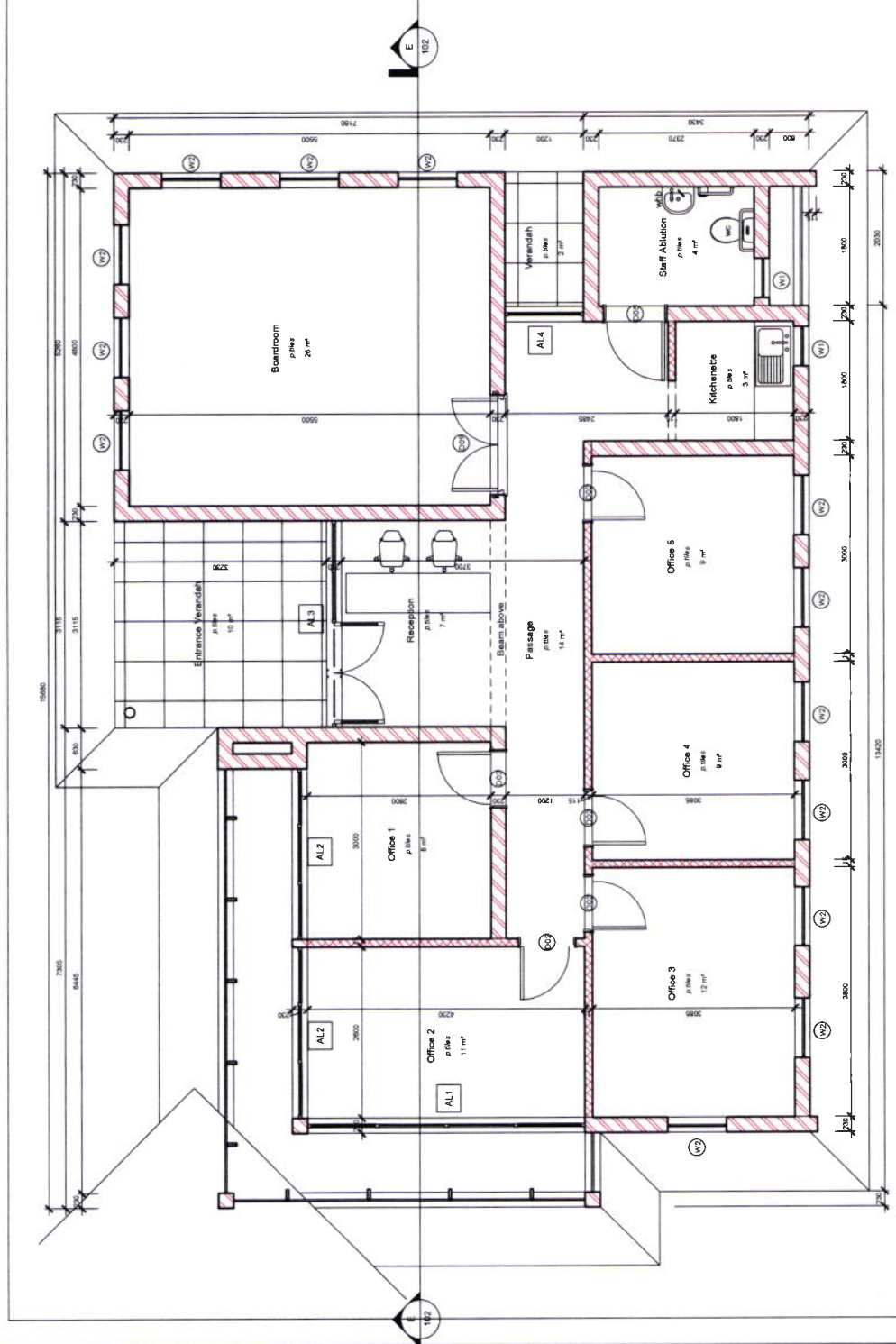
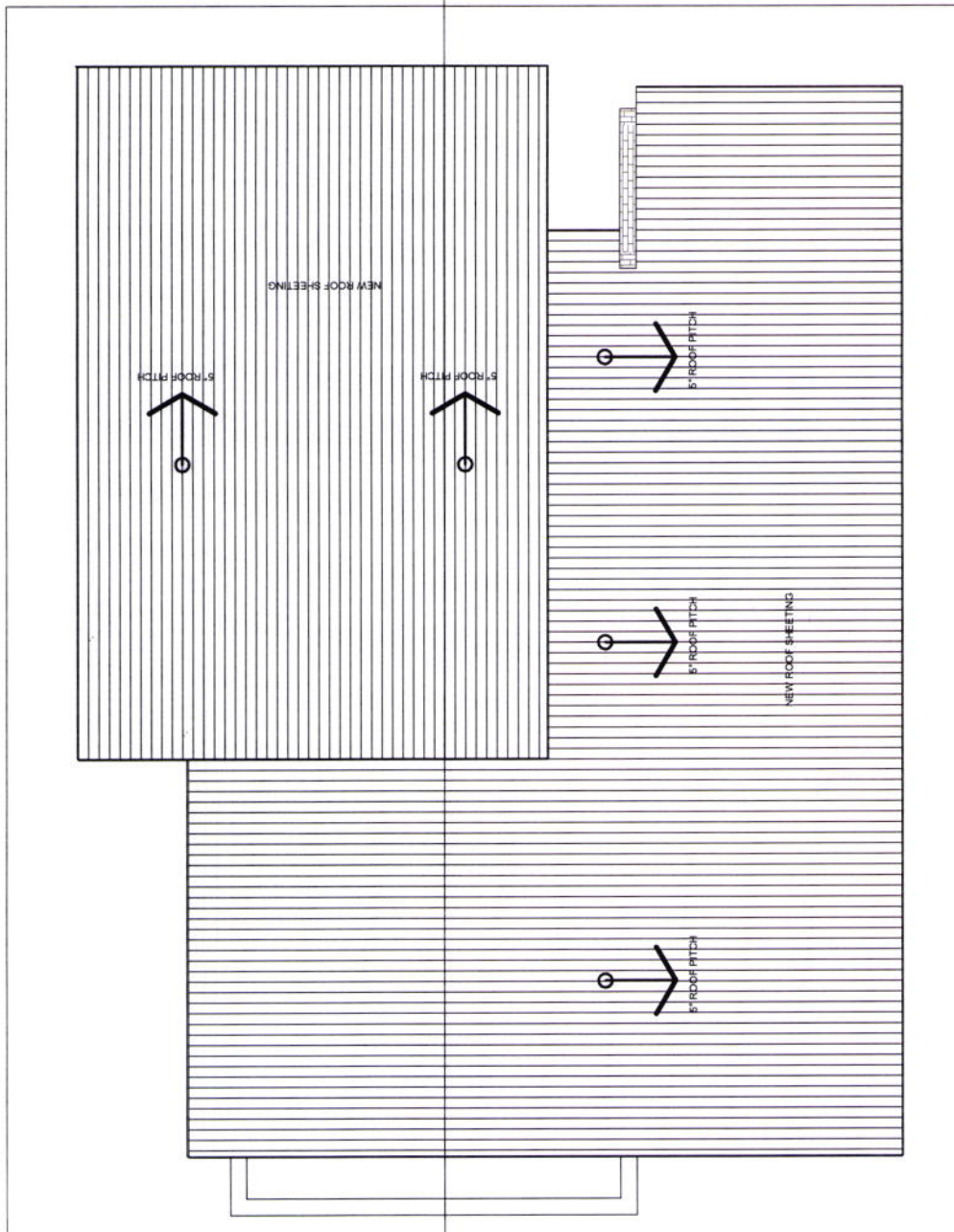
Client
 University of Venda
College Ave, VENDA

Service
AS-BUILT STADIUM FOR UNIVERSITY OF VENDA

Site
UNIVERSITY OF VENDA

Drawing title
OFFICE - PLAN, SECTION, ELEVATIONS, 30A

ref no 18KMS/105
scale As received
date 2022/01/14 09:00 AM
drawing number 102

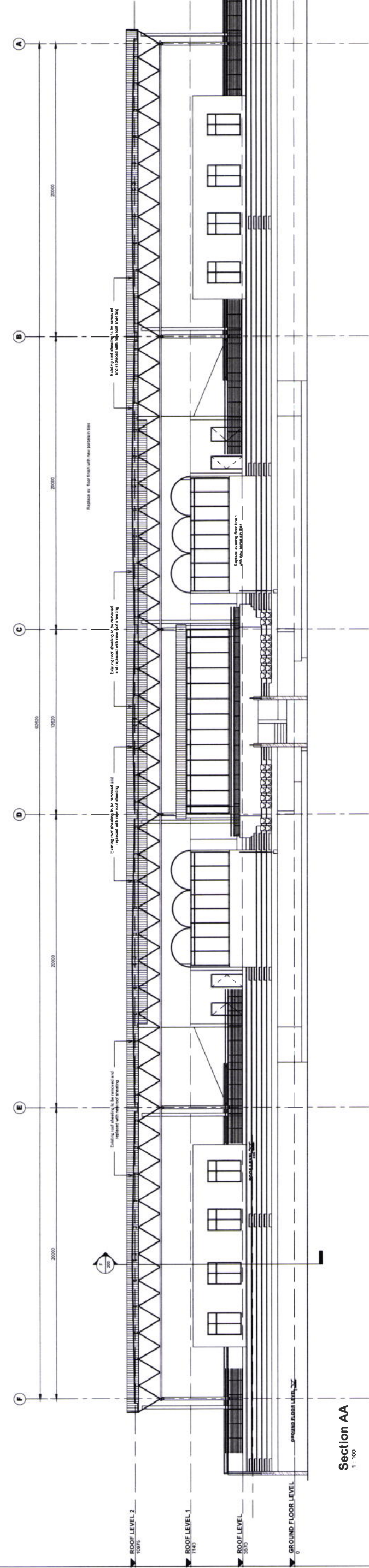


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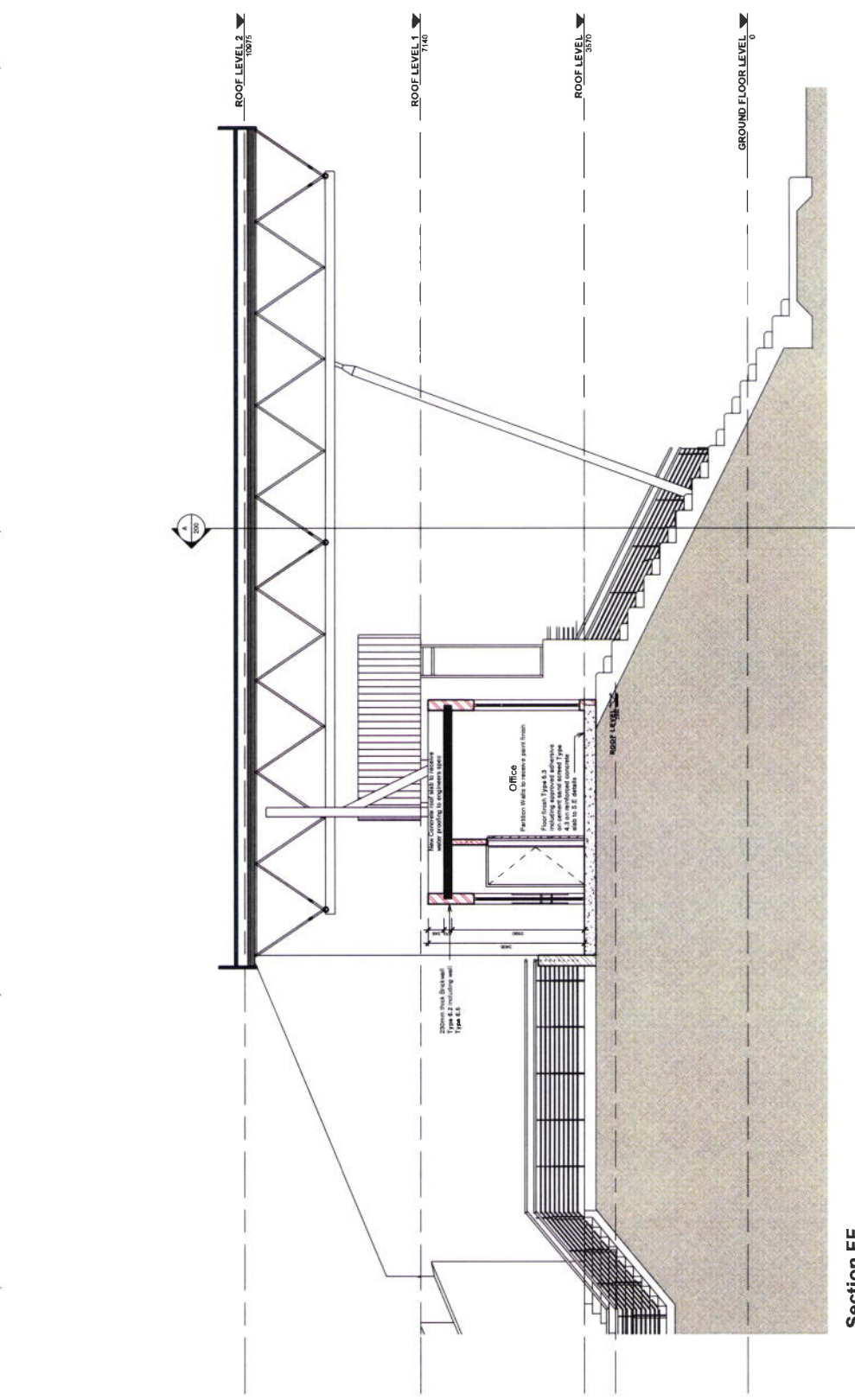
REVIT 2021



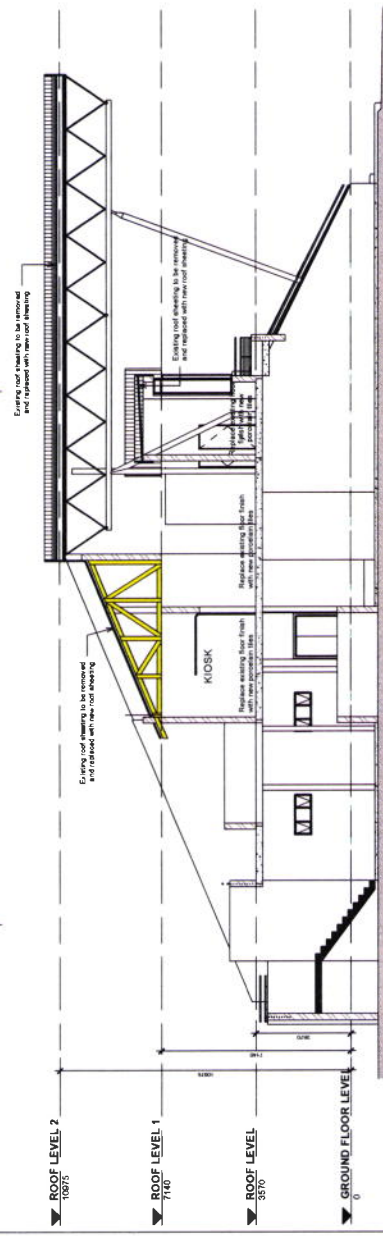
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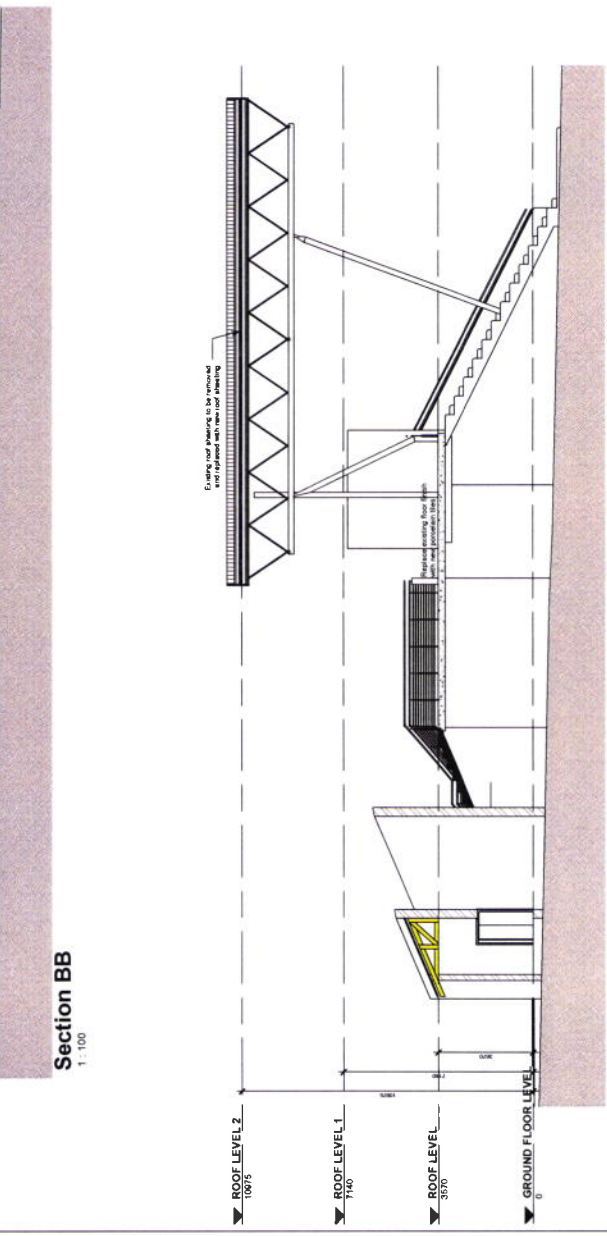
Section AA
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Section FF
1:50



Section BB
1:100



Section CC
1:100

SANITARY SPECIFICATIONS:

The following descriptions / specifications are to be read in conjunction with, and work executed in accordance with CW371 SPECIFICATION OF MATERIALS AND METHODS TO BE USED (as published by the Dept of Public Works October 1993 Edition)

<p>1. SINK</p> <p>1.1 FINISHED steel angle and bowl</p> <p>1.2 SINK TO BE FINISHED WITH ENAMEL OR GLASS TOP</p> <p>1.3 SINK TO BE FINISHED WITH ENAMEL OR GLASS TOP</p> <p>1.4 SINK TO BE FINISHED WITH ENAMEL OR GLASS TOP</p> <p>1.5 SINK TO BE FINISHED WITH ENAMEL OR GLASS TOP</p>	<p>2. WC PAN</p> <p>2.1 FLOOR MOUNTED</p> <p>2.2 FLOOR MOUNTED</p> <p>2.3 FLOOR MOUNTED</p> <p>2.4 FLOOR MOUNTED</p> <p>2.5 FLOOR MOUNTED</p>	<p>3. URINAL</p> <p>3.1 WALL MOUNTED</p> <p>3.2 WALL MOUNTED</p> <p>3.3 WALL MOUNTED</p> <p>3.4 WALL MOUNTED</p>	<p>4. BASIN</p> <p>4.1 VANTY BASIN</p> <p>4.2 VANTY BASIN</p> <p>4.3 VANTY BASIN</p>	<p>5. MIRROR</p> <p>5.1 MIRROR</p> <p>5.2 MIRROR</p> <p>5.3 MIRROR</p>	<p>6. OTHERS:</p> <p>6.1 OTHERS</p> <p>6.2 OTHERS</p> <p>6.3 OTHERS</p>	<p>7. TAPS:</p> <p>7.1 TAPS</p> <p>7.2 TAPS</p> <p>7.3 TAPS</p>
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KIMS
ARCHITECTS

100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600

UNIVERSITY OF VENDA
Faculty of Architecture

PROJECT: ASHLEY STADIUM UNIVERSITY OF VENDA

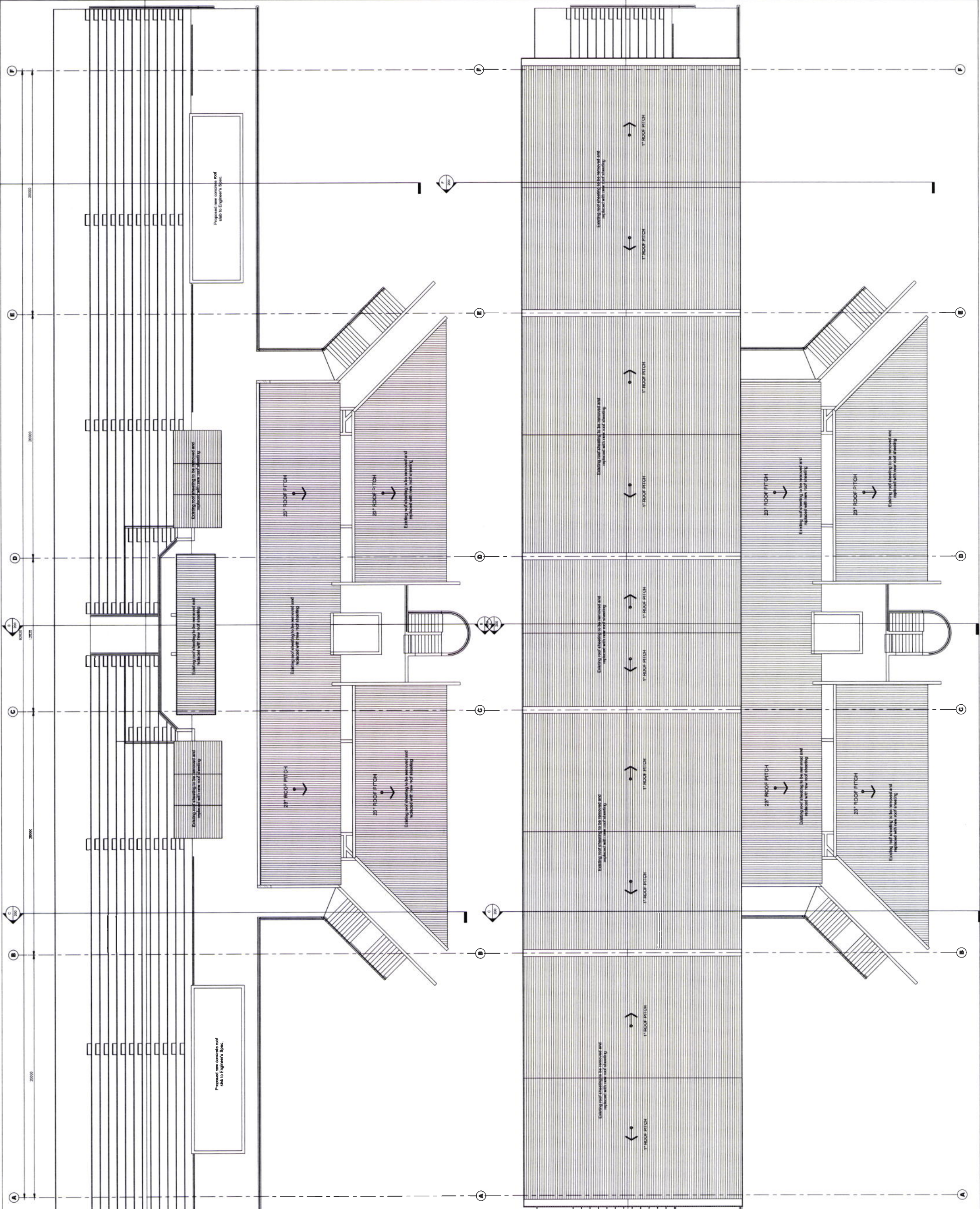
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CHECKED: [Name]

PROJECT NUMBER: 600



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1:100

ROOF LEVEL 2
1:100

NO	DATE	AMENDMENT

ALUMINIUM SHOPFRONTS SCALE 1:50	AL01	AL02	AL03	AL04
<p>LOCATION</p> <p>OFFICE 2</p>	<p>OFFICE 1 & 2</p>	<p>MAIN ENTRANCE</p>	<p>CIRCULATION</p>	<p>Q: 1</p>
<p>WINDOW DESCRIPTION</p> <p>ALUMINIUM FRAME SHOPFRONT, PURPOSE MADE TO DIMENSIONS AS SHOWN, ALL ALUMINIUM SECTIONS TO BE OF EQUAL QUALITY AND MUST COMPLY WITH AMBA'S SPECIFICATIONS AND MANUFACTURING SPECIFICATIONS. SHOPFRONT TO BE RE-MEASURED ON SITE PRIOR TO MANUFACTURING.</p>	<p>ALUMINIUM FRAME SHOPFRONT, PURPOSE MADE TO DIMENSIONS AS SHOWN, ALL ALUMINIUM SECTIONS TO BE OF EQUAL QUALITY AND MUST COMPLY WITH AMBA'S SPECIFICATIONS AND MANUFACTURING SPECIFICATIONS. SHOPFRONT TO BE RE-MEASURED ON SITE PRIOR TO MANUFACTURING.</p>	<p>ALUMINIUM FRAME SHOPFRONT, PURPOSE MADE TO DIMENSIONS AS SHOWN, ALL ALUMINIUM SECTIONS TO BE OF EQUAL QUALITY AND MUST COMPLY WITH AMBA'S SPECIFICATIONS AND MANUFACTURING SPECIFICATIONS. SHOPFRONT TO BE RE-MEASURED ON SITE PRIOR TO MANUFACTURING.</p>	<p>ALUMINIUM FRAME SHOPFRONT, PURPOSE MADE TO DIMENSIONS AS SHOWN, ALL ALUMINIUM SECTIONS TO BE OF EQUAL QUALITY AND MUST COMPLY WITH AMBA'S SPECIFICATIONS AND MANUFACTURING SPECIFICATIONS. SHOPFRONT TO BE RE-MEASURED ON SITE PRIOR TO MANUFACTURING.</p>	<p>ALUMINIUM FRAME SHOPFRONT, PURPOSE MADE TO DIMENSIONS AS SHOWN, ALL ALUMINIUM SECTIONS TO BE OF EQUAL QUALITY AND MUST COMPLY WITH AMBA'S SPECIFICATIONS AND MANUFACTURING SPECIFICATIONS. SHOPFRONT TO BE RE-MEASURED ON SITE PRIOR TO MANUFACTURING.</p>
<p>FRAME PARTICULARS</p> <p>EXTRUDED ALUMINIUM SECTIONS FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF BS 1744 AND ACCORDING TO THE MINIMUM REQUIREMENTS OF THE ASSOCIATION OF ARCHITECTURAL ALUMINIUM MANUFACTURERS OF SOUTH AFRICA (AAMA) FINISHED WITH POWDER COATING IN STRICT ACCORDANCE TO SABS 1578 ALL COATING QUALITY PROCEDURES MUST BE EXECUTED AND RECORDED IN ACCORDANCE WITH SABS ISO 8002. COLOUR TO ARCHITECT'S APPROVAL.</p>	<p>EXTRUDED ALUMINIUM SECTIONS FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF BS 1744 AND ACCORDING TO THE MINIMUM REQUIREMENTS OF THE ASSOCIATION OF ARCHITECTURAL ALUMINIUM MANUFACTURERS OF SOUTH AFRICA (AAMA) FINISHED WITH POWDER COATING IN STRICT ACCORDANCE TO SABS 1578 ALL COATING QUALITY PROCEDURES MUST BE EXECUTED AND RECORDED IN ACCORDANCE WITH SABS ISO 8002. COLOUR TO ARCHITECT'S APPROVAL.</p>	<p>EXTRUDED ALUMINIUM SECTIONS FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF BS 1744 AND ACCORDING TO THE MINIMUM REQUIREMENTS OF THE ASSOCIATION OF ARCHITECTURAL ALUMINIUM MANUFACTURERS OF SOUTH AFRICA (AAMA) FINISHED WITH POWDER COATING IN STRICT ACCORDANCE TO SABS 1578 ALL COATING QUALITY PROCEDURES MUST BE EXECUTED AND RECORDED IN ACCORDANCE WITH SABS ISO 8002. COLOUR TO ARCHITECT'S APPROVAL.</p>	<p>EXTRUDED ALUMINIUM SECTIONS FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF BS 1744 AND ACCORDING TO THE MINIMUM REQUIREMENTS OF THE ASSOCIATION OF ARCHITECTURAL ALUMINIUM MANUFACTURERS OF SOUTH AFRICA (AAMA) FINISHED WITH POWDER COATING IN STRICT ACCORDANCE TO SABS 1578 ALL COATING QUALITY PROCEDURES MUST BE EXECUTED AND RECORDED IN ACCORDANCE WITH SABS ISO 8002. COLOUR TO ARCHITECT'S APPROVAL.</p>	<p>EXTRUDED ALUMINIUM SECTIONS FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF BS 1744 AND ACCORDING TO THE MINIMUM REQUIREMENTS OF THE ASSOCIATION OF ARCHITECTURAL ALUMINIUM MANUFACTURERS OF SOUTH AFRICA (AAMA) FINISHED WITH POWDER COATING IN STRICT ACCORDANCE TO SABS 1578 ALL COATING QUALITY PROCEDURES MUST BE EXECUTED AND RECORDED IN ACCORDANCE WITH SABS ISO 8002. COLOUR TO ARCHITECT'S APPROVAL.</p>
<p>GLAZING PARTICULARS</p> <p>ONE WAY VIEW LAMINATED SAFETY GLASS, COMPLYING WITH SANS 1283 PART 1, 2 OR 3 WITH NAME OF THE MANUFACTURER PERMANENTLY MARKED ON EACH SHEET VISIBLE AFTER GLAZING, GLAZED IN ACCORDANCE WITH NBR N SCHEDULE 1 AND SABS 0137.</p>	<p>ONE WAY VIEW LAMINATED SAFETY GLASS, COMPLYING WITH SANS 1283 PART 1, 2 OR 3 WITH NAME OF THE MANUFACTURER PERMANENTLY MARKED ON EACH SHEET VISIBLE AFTER GLAZING, GLAZED IN ACCORDANCE WITH NBR N SCHEDULE 1 AND SABS 0137.</p>	<p>ONE WAY VIEW LAMINATED SAFETY GLASS, COMPLYING WITH SANS 1283 PART 1, 2 OR 3 WITH NAME OF THE MANUFACTURER PERMANENTLY MARKED ON EACH SHEET VISIBLE AFTER GLAZING, GLAZED IN ACCORDANCE WITH NBR N SCHEDULE 1 AND SABS 0137.</p>	<p>ONE WAY VIEW LAMINATED SAFETY GLASS, COMPLYING WITH SANS 1283 PART 1, 2 OR 3 WITH NAME OF THE MANUFACTURER PERMANENTLY MARKED ON EACH SHEET VISIBLE AFTER GLAZING, GLAZED IN ACCORDANCE WITH NBR N SCHEDULE 1 AND SABS 0137.</p>	<p>ONE WAY VIEW LAMINATED SAFETY GLASS, COMPLYING WITH SANS 1283 PART 1, 2 OR 3 WITH NAME OF THE MANUFACTURER PERMANENTLY MARKED ON EACH SHEET VISIBLE AFTER GLAZING, GLAZED IN ACCORDANCE WITH NBR N SCHEDULE 1 AND SABS 0137.</p>
<p>IRONMONGERY</p> <p>ALL OPENABLE PANELS TO COME COMPLETE WITH PEG STAYS, HANDLES & LATCH STAYS.</p>	<p>ALL OPENABLE PANELS TO COME COMPLETE WITH PEG STAYS, HANDLES & LATCH STAYS.</p>	<p>ALL OPENABLE PANELS TO COME COMPLETE WITH PEG STAYS, HANDLES & LATCH STAYS.</p>	<p>ALL OPENABLE PANELS TO COME COMPLETE WITH PEG STAYS, HANDLES & LATCH STAYS.</p>	<p>ALL OPENABLE PANELS TO COME COMPLETE WITH PEG STAYS, HANDLES & LATCH STAYS.</p>

REVIT 2021

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AS-BUILT STADIUM FOR UNIVERSITY OF VENDA

Client	UNIVERSITY OF VENDA
Service	AS-BUILT STADIUM FOR UNIVERSITY OF VENDA
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Date	2022/01/18 09:37 AM
Drawing Title	ALUMINIUM SHOPFRONT SCHEDULE
Ref No	18KMS/105
Scale	1:50
Date	2022/01/18 09:37 AM
Drawing number	701

Date	Revisions

add file name
REVIT 2021

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PO BOX 1600
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POLYVINE

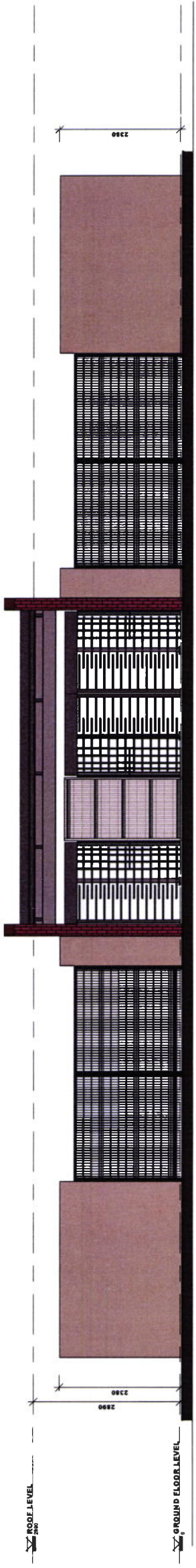
Client
University of Venda
Creating More Access

Service
PROPOSED NEW ENTRANCE GATES TO
UNIVERSITY STADIUM

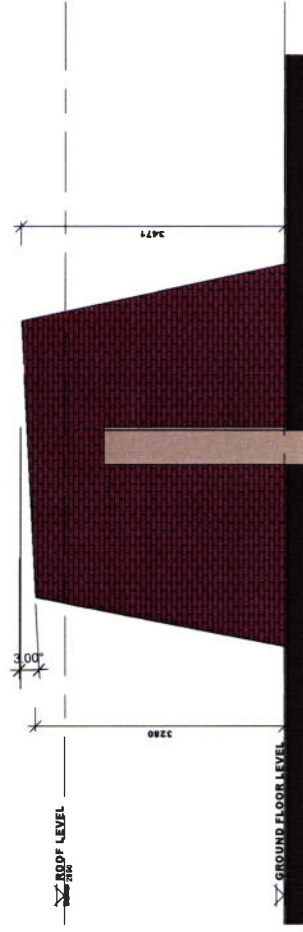
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UNIVERSITY OF VENDA

Drawing title
PLAN, SECTION, ELEVATIONS

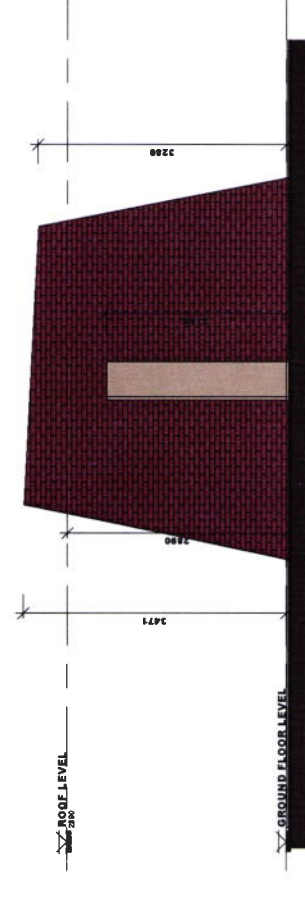
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date	2021/01/13 15:19 AM	checked	N.A
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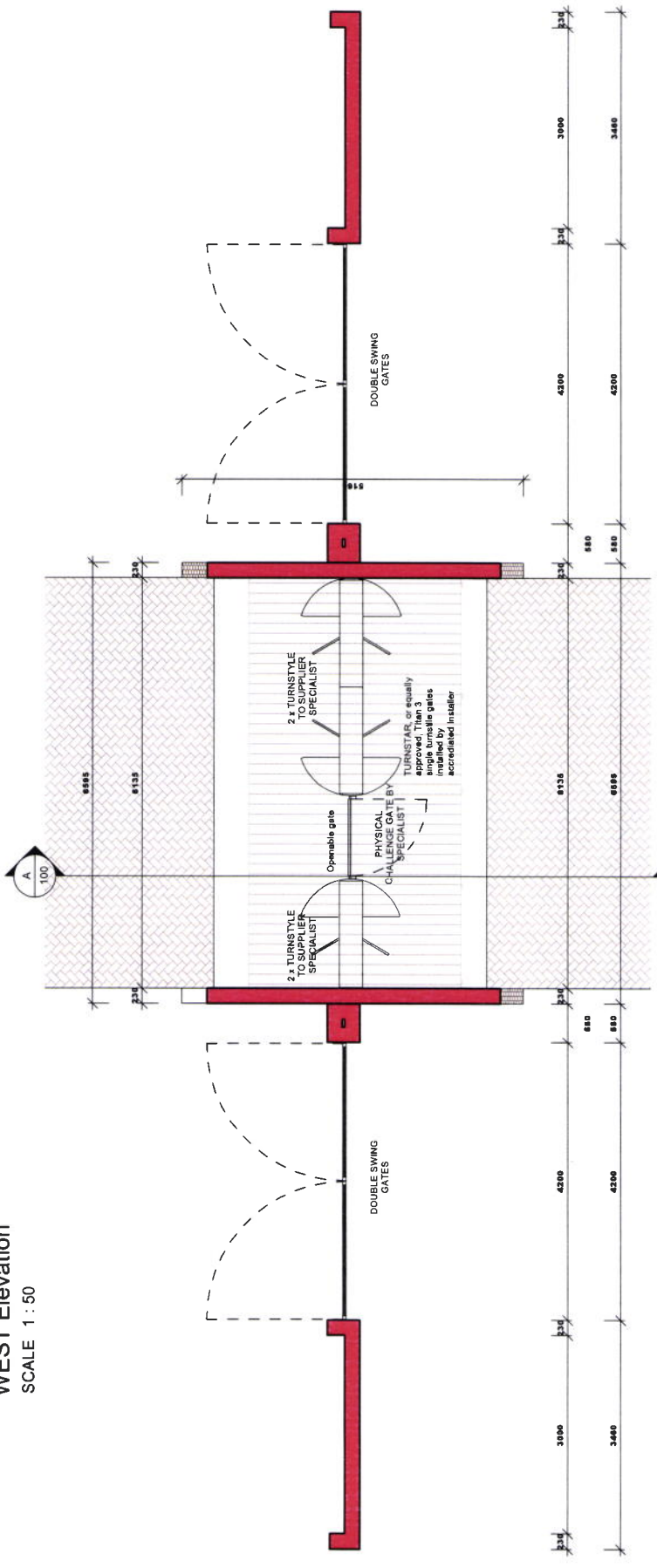
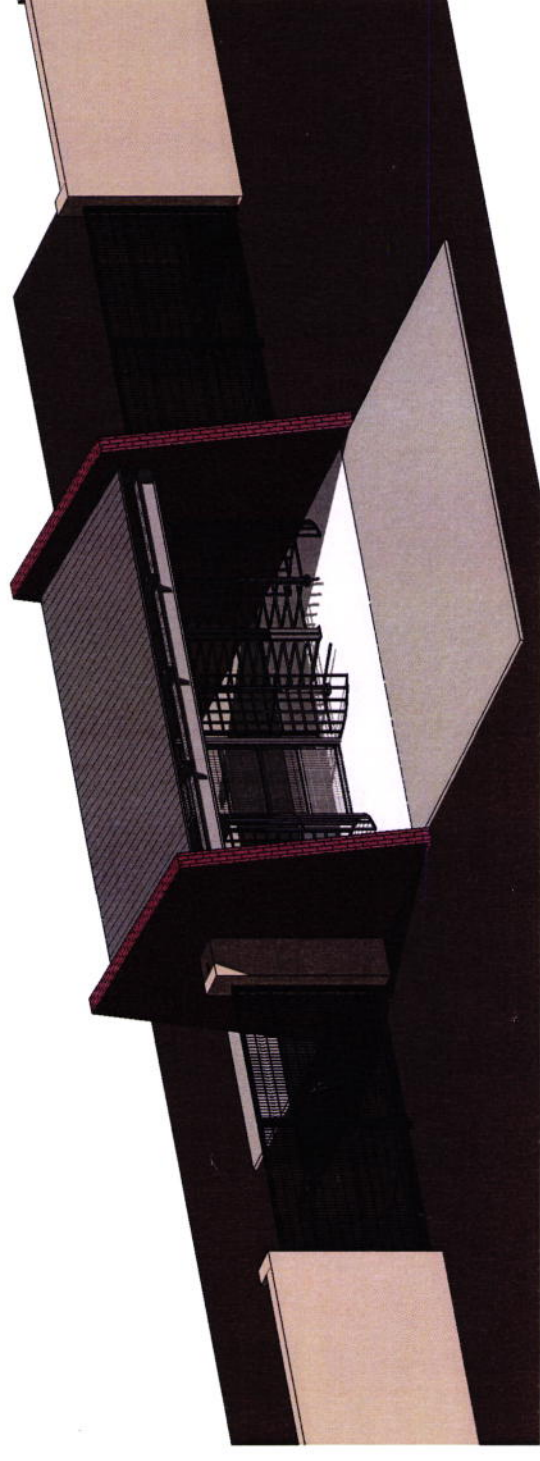
SOUTH Elevation
SCALE 1 : 50



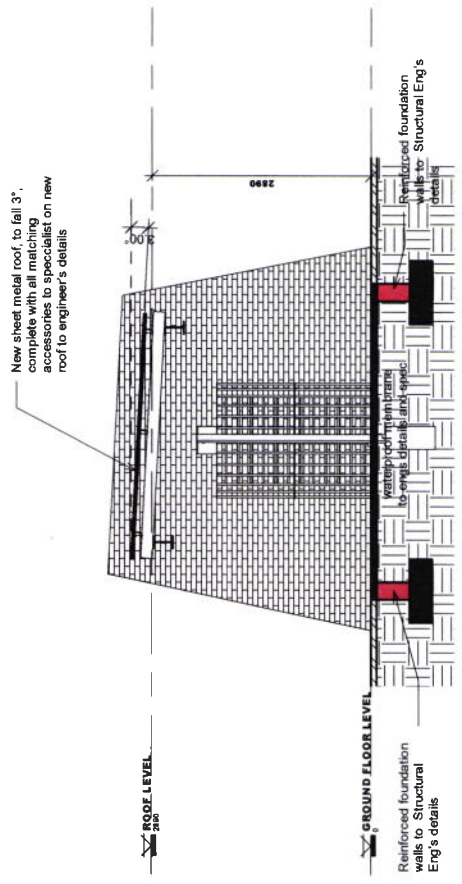
EAST Elevation
SCALE 1 : 50



WEST Elevation
SCALE 1 : 50



GROUND FLOOR LEVEL
SCALE 1 : 50



SECTION AA
SCALE 1 : 50

