

**SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION**

64	Coring 110mm diameter hole through reinforced concrete not exceeding 150mm thick including applying two coats of "SIKATOP ARMATEC 110" paint to existing rebar ends (only if instructed by Principal Agent)	No	2	
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PLUMBING AND DRAINAGE (PROVISIONAL)

NOTE: The following items shall be deemed to fall into Work Group No. 146 for JBCC CPAP

SOIL DRAINAGE

uPVC pipes Class 34

65	75mm Pipes laid in ground including excavation not exceeding 1m deep (LI)	m	15	
66	110mm Pipes laid in ground including excavation not exceeding 1m deep (LI)	m	10	
67	110mm Vent valve pipe (LI)	m	6	
68	160mm Pipes laid in ground including excavation not exceeding 1m deep (LI)	m	28	
69	160mm Inlet/Outlet pipes (LI)	m	12	

Extra over uPVC pipes for the following fittings

70	75mm Bend (LI)	No	2	
71	110mm Bend (LI)	No	2	
72	160mm Bend (LI)	No	3	

Covers, etc

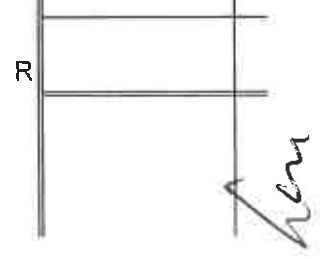
73	550mm Diameter SABS Type 2A heavy duty cast iron double seal manhole cover and frame, with frame bedded in 3:1 cement mortar and cover sealed in tallow	No	6	
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ROCK EXCAVATION

NOTE: The following items shall be deemed to fall into Work Group No. 146 for JBCC CPAP

Carried to Collection

Section No. 4
Bill No. 5
SOIL DRAINAGE



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**SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION**

Rock excavation

74	Extra over excavation in soft excavation as described for pipe trenches, inspection chambers, etc., at all levels for excavation in soft rock excavation (LI)	m3	2	
75	Extra over excavation in intermediate excavation as described for pipe trenches, inspection chambers, etc., at all levels for excavation in intermediate excavation (LI)	m3	2	
76	Extra over excavation in hard excavation as described for pipe trenches, inspection chambers, etc., at all levels for excavation in hard rock excavation (LI)	m3	2	

Testing

77	Allow for testing the whole of the Soil Drainage to the satisfaction of the Principal Agent and Local Authorities All defective work is to be taken out and replaced at the Contractor's expense and the whole re-tested until found satisfactory			Item
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Section No. 4
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SOIL DRAINAGE

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SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION

Section No. 4

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SOIL DRAINAGE

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SOIL DRAINAGE

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**SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION**

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 6</u>			
	<u>EXTERNAL WATER SUPPLY (PROVISIONAL)</u>			
	<u>CPAP WORK GROUP NO. 148 UNLESS OTHERWISE STATED</u>			
	The Tenderer is referred to the relevant Clauses in the separate document General Preambles for Trades (2017 Edition)			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Any reference to trade names in the Bills of Quantities or Architect's specification or drawings shall deem to mean "or similar and approved"			
	NOTE :All Civil works to be carried out in accordance with the standardised SABS 1200 specifications			
	<u>PIPEWORK</u>			
1	Sterilizing all water pipes prior to installation in strict accordance to the methods and specifications in SANS10252-1			
	<u>HDPE PE100 (Class 10) pipes in trenches for use under ground in accordance with compression including excavation, bedding material, back filling, compaction, spoil disposal, etc.</u>			
2	50mm Diameter pipe not exceeding 1m deep (LI)	m	175	
3	50mm Diameter pipe exceeding 1m and not exceeding 2m deep (LI)	m	260	
	<u>HDPE PE100 (Class 16) pipes in trenches for use under ground in accordance with compression including excavation, bedding material, back filling, compaction, spoil disposal, etc.</u>			
4	50mm Diameter pipe not exceeding 1m deep (LI)	m	10	
	Carried to Collection			R
	Section No. 4 Bill No. 6 EXTERNAL WATER SUPPLY			

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**SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION**

5	90mm Diameter pipe not exceeding 1m deep (LI)	m	44
6	90mm Diameter pipe exceeding 1m and not exceeding 2m deep (LI)	m	100
<u>Extra on HDPE pipes for:</u>			
7	50mm HDPE bend (LI)	No	16
8	50mm HDPE tee (LI)	No	10
9	90mm HDPE bend (LI)	No	12
10	90mm HDPE tee (LI)	No	6
<u>uPVC pipes Class 16 for use under ground with uPVC couplings including excavation, bedding material, back filling, compaction, spoil disposal etc.</u>			
11	90mm Diameter pipe not exceeding 1m deep (LI)	m	140
<u>Extra on uPVC pipes for:</u>			
12	90mm Bend (LI)	No	12
13	90mm Tee (LI)	No	2
14	90 x 50mm Reducer (LI)	No	4
15	50mm Flange adaptor (LI)	No	2
<u>Taps, Valves, etc.</u>			
16	50mm Isolated valve (LI)	No	4
17	100mm Isolating valve (LI)	No	2
<u>Sundries</u>			
18	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in intermediate rock (LI)	m3	150
19	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock (LI)	m3	75
20	Mass concrete Class C encasing to horizontal pipes (LI)	m3	18
21	Mass concrete Class C encasing to vertical pipes (LI)	m3	5

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EXTERNAL WATER SUPPLY

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SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION

Valve box 750mm internal diameter on 19mm stone base 75mm thick, 100mm pre-cast concrete cover slab including cover and frame 150 x 150 x 100mm cast into frame.

22	Valve Box not exceeding 1m deep (LI)	No	4
23	Valve Box exceeding 1m and not exceeding 2m deep (LI)	No	2
<u>Thrust blocks to 11.25 degree bends</u>			
24	Size extreme 400 x 350 x 300mm high (LI)	No	22
25	Size extreme 550 x 400 x 450mm high (LI)	No	14

Testing

26	Testing all water pipe system		Item
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TANKS, ETC

"Abeco" or other equal and approved hot-dip galvanised steel sectional water tanks etc. on galvanised tower structure

27	3 660 x 3 660 x 2 440mm Tank with external flanges, flat top, raised valve box and bolted manhole lid, including tank support structure, access platform, access ladders, etc. Tank supported approximately 13m above ground level (Refer to Drawing No. 08028-S-DT-001-017 Rev A)	No	2
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EXTERNAL WATER SUPPLY

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**SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION**

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EXTERNAL WATER SUPPLY

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EXTERNAL WATER SUPPLY

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**SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION**

SECTION SUMMARY - SECTION 4: EXTERNAL WORK

Bill No		Page No	Amount
1	GENERAL SITE WORKS, ROADS AND PAVING	187	
2	COVERED WALKWAYS, CANOPIES, ETC.	193	
3	YARD WALLS, FENCING, ETC.	204	
4	STORMWATER DRAINAGE	213	
5	SOIL DRAINAGE	224	
6	EXTERNAL WATER SUPPLY	228	

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SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION

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No

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Amount

SECTION NO. 5

BILL NO. 1

PROVISIONAL SUMS AND BUDGETARY ALLOWANCES

SUPPLEMENTARY PREAMBLES

General

Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances

Prime cost amounts and provisional sums are NET. Prime cost amounts include for delivery to site of all articles concerned

Provisional sums are for material and equipment supplied and installed complete by firms of specialists

Profit

Where stated, the contractor may allow for profit if required

General attendance on nominated/selected subcontractors

The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:

- 1 General attendance comprising of access to the site, the provision of water, electric power and an area for establishment, the use of erected scaffolding, etc.
- 2 Making good in all trades and cleaning down and removal of rubbish on completion

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PROVISIONAL SUMS AND BUDGETARY ALLOWANCES

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**SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION**

Note: Tenderers are to note that the allowances listed here under are for work to be executed by the appointed principal contractor. Tenderers are to allow in their overall Preliminaries costs for this scope of work as no additional Preliminaries will be entertained once this scope of work is realised. The Employer reserves the right to execute this work in part or in whole or omit the entire scope

**PROVISIONAL SUMS FOR
SELECTED/NOMINATED SUB-CONTRACT
WORKS**

BOREHOLE AND PUMP

1 Provide the sum of R 500 000.00 (Five Hundred Thousand Rands) for Borehole and Pump

Item 500,000.00

2 Profit

Item

3 Attendance

Item

WATER TREATMENT PLANT

4 Provide the sum of R 200 000.00 (Two Hundred Thousand Rands) for Water Treatment Plant

Item 200,000.00

5 Profit

Item

6 Attendance

Item

OIL SEPERATOR

7 Provide the sum of R 200 000.00 (Two Hundred Thousand Rands) for Oil Seperator

Item 200,000.00

8 Profit

Item

9 Attendance

Item

ESKOM CONNECTION

10 Provide the sum of R 500 000.00 (Five Hundred Thousand Rands) for Eskom Connection - Transformer to Isolation Kiosk

Item 500,000.00

11 Profit

Item

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PROVISIONAL SUMS AND BUDGETARY ALLOWANCES

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**SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION**

12 Attendance

Item

ESKOM LINE DEVIATION

13 Provide the sum of R 250 000.00 (Two Hundred and Fifty Thousand Rands) for Eskom Line Deviation

Item

250,000.00

14 Profit

Item

15 Attendance

Item

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PROVISIONAL SUMS AND BUDGETARY ALLOWANCES

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SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION

Section No. 5

Bill No. 1

PROVISIONAL SUMS AND BUDGETARY ALLOWANCES

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PROVISIONAL SUMS AND BUDGETARY ALLOWANCES

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SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 1</u>			
	<u>PROJECT ASSESSMENT SCHEME (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLE</u>			
	Tenderer is advised to carefully price this section of the bills of quantities in conjunction with C1.2: Contract Data, C2.1: Pricing Assumptions and C3: Scope of Work incorporated in the tender documents for this tender			
	The profit and attendance priced herein under is inclusive of associated costs to the contractor for implementation. The profit and attendance % is to remain unchanged for the duration of contract - refer to C2.1 Pricing Assumptions			
	<u>TARGETED ENTERPRISE DEVELOPMENT CPG</u>			
	<u>Enterprise Development of Targeted Enterprise or JV Partners</u>			
1	Needs Analysis and Enterprise Development Plan per Targeted Enterprise	No	3 5,000.00	15,000.00
2	Monitoring and Interim reporting per Targeted Enterprise (Enterprise Development Co-ordinator and mentor)	PerQ	6 60,000.00	360,000.00
3	Project Completion report per Targeted Enterprise	No	3 5,000.00	15,000.00
	SUB-TOTAL		R	390,000.00
	Carried to Collection		R	
	Section No. 6 Bill No. 1 PROJECT ASSESSMENT SCHEME			<i>hwa</i>

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**SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION**

4	Profit	%		
5	Attendance	%		
<u>CONTRACT SKILLS DEVELOPMENT GOALS - CSDG</u>				
The following allowance will be subject to adjustment based on the notional cost (see Table 3) as per Government Gazette No. 48491 of 28 April 2023 as amended in line with the training opportunity agreed with the employer.				
6	Minimum Contract Skills Development Goal (CSDG) (0.5% x "Sub total A" on the Final Summary)	%		
7	Profit	%		
8	Attendance	%		

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PROJECT ASSESSMENT SCHEME

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SOUTH AFRICAN POLICE SERVICES
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PROJECT ASSESSMENT SCHEME

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PROJECT ASSESSMENT SCHEME

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**SOUTH AFRICAN POLICE SERVICES
CONSTRUCTION OF THE NEW BHOSIKI POLICE STATION**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	SECTION 1: PRELIMINARIES	45	
2	SECTION 2: BUILDERS WORK	146	
3	SECTION 3: SPECIALIST INSTALLATIONS	179	
4	SECTION 4: EXTERNAL WORK	229	
	SUB-TOTAL (A)		R
5	SECTION 5: PROVISIONAL SUMS AND BUDGETARY ALLOWANCES	233	
6	SECTION 6: PROJECT ASSESSMENT SCHEME	236	
	SUB-TOTAL (B)		R
	ADD: CONTRACT PRICE ESCALATION	Item	4,707,476.55
	SUB-TOTAL (C)		R
	ADD: VAT @ 15% OF THE SUB-TOTAL ABOVE		R
	TOTAL		R
	Carried to Form of Tender		R

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*CONSTRUCTION OF BHOSIKI NEW POLICE STATION: KWAZULU
NATAL PROVINCE*

BID: 19/1/9/1/27 TB (24)

PART C:

CONTRACT

Part C3

Scope of Work



C3: SCOPE OF WORKS

JBCC Series 2000

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C3: SCOPE OF WORKS

JBCC Series 2000

Project : Construction of New Bhosiki Police Station

Employer : South African Police Service

Reference : [19/1/9/1/27 TB (24)]

C3.1. DESCRIPTION OF THE WORKS

C3.1.1. Employer's objectives

The South African Police Service endeavors to complete the Construction of New Mashayilanga Police Station.

In addition to the above, the project aims to achieve the following:

- a) to provide a minimum Contract Participation Goal (CPG) of 5% of the total contract value and develop targeted enterprises by the main or lead partner contractors
- b) to train learners in Occupational qualifications, trade qualification, work integrated learners – P1 and P2 learners, professional candidates (which ever is applicable after award of the tender
- c) to deliver public infrastructure using labour-intensive methods in accordance with EPWP Guidelines
- d) 30% Subcontracting

The **employer** intends to appoint a suitable **contractor** to construct facilities and amenities as per the **employer's** specifications

The general intent of this contract is that the **contractor** shall procure all items necessary to construct and complete the **works** in accordance with the terms of this contract, in a workmanlike and expeditious manner

C3.1.2. Overview of the works

Works included in this contract comprise the construction of a new police station on a green-field site with services that include fire reticulation and electrical and air conditioning installation to all buildings. The site works comprise bulk earthworks, landscaping, paving, face brick, and steel perimeter fencing with gates and carports. The total area of the building is approximately 1161m², whereas the site has a total area of 14 632 m²

In addition to the requirements specified, the design will ensure that the buildings comply with the national building regulations and standards of the country (SANS), the legal, safety, and health requirements, and should observe sustainable design principles

The extent of the works is detailed below, and the portion of the work relevant to the successful bidder of this document has also been stated below

C3.1.3. Extent of the works

The following is the high-level scope for the project:



- c) Public administration block/offices
- d) Lecture room
- e) General stores
- f) Crime investigation offices
- g) Car wash bay and covered parking
- h) Emergency generator room
- i) Refuse area
- j) General Site Works
- k) Establishment of decanting site

C3.1.4. Location of the works

See C4: Site Information

C3.2. WORKS SPECIFICATION

C3.2.1. Applicable national and international standards

The following, but not limited to, national specifications even though not bound apply to this document, refer to purpose written specifications for all national standards:

- a) Occupation Health and Safety Act, 1993
- b) SANS 10400: National Building Regulations
- c) SANS 10400-XA: Energy Usage in Buildings
- d) SANS 10400-X: Environmental sustainability
- e) SANS 1186-1: Symbolic safety signs - Part 1: Standard signs and general requirements
- f) SANS 10142: The wiring of premises (part 1 & 2)
- g) SANS 10389-1: Exterior lighting Part 1 Artificial lighting of exterior areas for work and safety
- h) SANS 10389-2: Exterior lighting Part 2 Exterior security lighting
- i) SANS 1765: Low voltage switchgear and control gear assemblies (distribution boards) with rated short circuit withstand strength up to and including 10kA
- j) SANS 10313: Protection against lightning - physical damage to structures and life hazard
- k) SANS 62305: Protection against lightning
- l) SANS 62040: Uninterruptible Power Systems (UPS)
- m) SANS 10252-1: Water Supply Installations for Buildings
- n) SANS 10252-2: Drainage Installations for building
- o) Local Municipality by laws & requirements
- p) SAPS Project Five Star 2012 Specifications for New and Existing Police Cell

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C3.2.2. Particular or generic specifications

The following purpose written (project specific) specifications are applicable to the **works** and are attached as Annexures after C4: Site Information

- a) [Describe the project specific specification with dates and dates e.g Civil Engineering Specification, Rev0.00 date: 02 April 1999]
- b) [Describe the project specific specification with dates and dates]
- c) [Describe the project specific specification with dates and dates]
- d) [Describe the project specific specification with dates and dates]
- e) [Describe the project specific specification with dates and dates]

C3.2.3. Minimum Standard requirements

- a) CIDB Best Practice Project Assessment Scheme (Government Gazette No.43726 of 18 September 2020)
- b) Standard for Developing Skills through Infrastructure Contracts, published in Gazette Notice 48491 of 28 April 2023
- c) Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, published in Gazette Notice No.36190 of 25 February 2013
- d) Guidelines for the Implementation of Labour-Intensive Infrastructure Projects Under the Expanded Public Works Programme (EPWP) – Third Edition 2015

C3.3. DRAWINGS

C3.3.1. Tender Drawings

Tender drawings are provided in order to give an overview of the project. Any ambiguities shall be clarified by the tenderer with the **employer's agent** prior to the submission of tenders

The drawings that form part of the tender documents shall be used for tender purposes only

Drawings for construction purposes will be issued to the appointed **contractor** during the execution of the contract

The following drawings are annexed after C4: Site Information, and form part of the contract. The drawings issued to tenderers must be regarded as provisional and preliminary for the tenderer's benefit to assess the scope generally

#	DESCRIPTION	DRAWING No.	REVISION AND DATE
1.0	ARCHITECTURAL DRAWINGS		
1.1	SITE PLAN	100	Rev1
1.2	GROUND FLOOR LAYOUT	200	Rev1
1.3	SECTIONS	300	Rev10
1.4	ELEVATIONS	310	Rev1
1.5	TIMBER DOOR SCHEDULE	500	Rev1
1.6	PART XA REPORT	500-00	A
1.7	ALUMINIUM PART XA SCHEDULE	500-01	A

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PART C3: SCOPE OF WORKS

1.8	STEEL WINDOW SCHEDULE	500-02	Rev1
1.9	ALUMINIUM DOOR SCHEDULE	500-04	Rev1
1.10	ALUMINIUM WINDOW SCHEDULE	500-05	Rev1
1.11	STEEL GATE SCHEDULE	550	Rev1
1.12	BURGLAR GUARD SCHEDULE	551	Rev1
1.13	SANWARE SCHEDULE	600	Rev0
1.14	IRONMONGERY SCHEDULE	601	Rev0
1.15	PART XA	553	A
1.16	SIGNAGE DETAILS	505	A
1.17	SIGNAGE LAYOUT	506	A
1.18	FINISHING SCHEDULE	5600	Rev0
1.19	TEA ROOM	311	Rev0
1.20	TELEPHONE POD	312	Rev0
1.21	TEMPORARY SAP STORE	313	Rev0
1.22	VICTIM FRIENDLY AREA	314	Rev0
1.23	VICTIM FRIENDLY CONSULTATION	315	Rev0
1.24	VICTIM FRIENDLY EXAMINATION	316	Rev0
1.25	WAITING ROOM	317	Rev0
1.26	WALK IN SAFE	318	Rev0
1.27	WC	319	Rev0
1.28	WEAPONS ROOM	320	Rev0
1.29	WORK AREA	321	Rev0
1.30	MALE WC	322	Rev0
1.31	MALE WC2	323	Rev0
1.32	MEMBERS CHANGEROOM	324	Rev0
1.33	OFFICE1	325	Rev0
1.34	PARAPLEGIC	330	Rev0
1.35	PUBLIC FEMALE	331	Rev0
1.36	PUBLIC MALE	332	Rev0
1.37	RADIO ROOM	333	Rev0
1.38	RECEPTION	334	Rev0
1.39	SAFE LOBBY	335	Rev0
1.40	SAP 13 STORE	336	Rev0
1.41	SENSITIVE STATEMENTS	337	Rev0
1.42	SERVER ROOM	338	Rev0
1.43	STATEMENT AND FINGERPRINTS OFFICE	339	Rev0
1.44	STATION COMMANDER	340	Rev0
1.45	STATIONARY STORE	341	Rev0
1.46	STOREROOM	342	Rev0
1.47	INVESTIGATORS ROOM	343	Rev0
1.48	KITCHEN	344	Rev0
1.49	LECTURE/TRAINING ROOM	345	Rev0
1.50	BATHROOM	346	Rev0
1.51	CARETAKERS CHANGEROOM	347	Rev0
1.52	CAS TERMINAL	348	Rev0

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PART C3: SCOPE OF WORKS

1.53	CIAC OFFICE	349	Rev0
1.54	CSC COMMANDER ROOM	350	Rev0
1.55	FEMALE WC	351	Rev0
1.56	FEMALE WC 2	352	Rev0
1.57	FINANCE ROOM	353	Rev0
1.58	FINGERPRINT	354	Rev0
1.59	FRONT SERVICE AREA	355	Rev0
1.60	GENERAL STORE	356	Rev0
1.61	ADMIN OFFICE	357	Rev0
1.62	AMO ROOM	358	Rev0
1.63	JUVENILE CELL	359	Rev0
1.64	FEMALE CELL	360	Rev0
1.65	MALE CELL	361	Rev0
1.66	BLANKET AND LINEN STORE	362	Rev0
1.67	VISITORS BOOTH	364	Rev0
1.68	FEMALE HOLDING CELL	365	Rev0
1.69	MALE HOLDING CELL	366	Rev0
1.70	GUARD OFFICE	368	Rev0
1.71	PRISONERS PROPERTY STORE	369	Rev0
1.72	ADMITTANCE AREA	371	Rev0
1.73	CELL BLOCK KITCHEN	373	Rev0
1.74	CARETAKERS CHANGEROOM	376	Rev0
1.75	CARETAKERS RESTROOM	377	Rev0
1.76	TEA ROOM JOINERY	380	Rev0
1.77	TELEPHONE POD JOINERY	381	Rev0
1.78	TEMPORARY SAP 13 STORE JOINERY	382	Rev0
1.79	VICTIM FRIENDLY AREA JOINERY	383	Rev0
1.80	VICTIM FRIENDLY CONSULTATION JOINERY	384	Rev0
1.81	AMO ROOM JOINERY	385	Rev0
1.82	ADMIN OFFICE JOINERY	386	Rev0
1.83	GENERAL STORE JOINERY	387	Rev0
1.84	FRONT SERVICE AREA JOINERY	388	Rev0
1.85	FINGERPRINT AREA JOINERY	389	Rev0
1.86	FINANCE JOINERY	390	Rev0
1.87	CIAC TERMINAL JOINERY	391	Rev0
1.88	CAS TERMINAL JOINERY	392	Rev0
1.89	CSC COMMANDER JOINERY	393	Rev0
1.90	CARETAKER CHANGEROOM JOINERY	394	Rev0
1.91	WALK IN SAFE JOINERY	395	Rev0
1.92	WEAPONS ROOM JOINERY	396	Rev0
1.93	MEMBERS CHANGEROOM JOINERY	397	Rev0
1.94	OFFICE 1 JOINERY	398	Rev0
1.95	OFFICER JOINERY	399	Rev0
1.96	RADIO ROOM JOINERY	400	Rev0
1.97	RECEPTION JOINERY	401	Rev0



PART C3: SCOPE OF WORKS

1.98	SAFE LOBBY JOINERY	402	Rev0
1.99	SAP 13 STORE JOINERY	403	Rev0
1.100	SENSITIVE STATEMENTS JOINERY	404	Rev0
1.101	SERVER ROOM JOINERY	405	Rev0
1.102	STATEMENTS OFFICE AND FINGERPRINTS JOINERY	406	Rev0
1.103	STATION COMMANDER JOINERY	407	Rev0
1.104	STATIONARY STORE JOINERY	408	Rev0
1.105	STOREROOM JOINERY	409	Rev0
1.106	INVESTIGATORS ROOM JOINERY	410	Rev0
1.107	KITCHEN JOINERY	411	Rev0
1.108	LECTURE/TRAINING ROOM JOINERY	412	Rev0
2.0	CIVIL ENGINEERING DRAWINGS		
2.1	CIVIL INFRASTRUCTURE LAYOUT	08028-C-LA-002-001	A
2.2	LONGITUDINAL SECTIONS: SEWER	08028-C-LS-001-001	D
2.3	LONGITUDINAL SECTIONS: STORMWATER	08028-C-LS-002-001	D
2.4	LONGITUDINAL SECTIONS: STORMWATER	08028-C-LS-002-002	D
2.5	DETAILS: SEWER	08028-C-DT-001-001	B
2.6	DETAILS: STORMWATER	08028-C-DT-002-001	B
2.7	DETAILS: WATER	08028-C-DT-003-001	B
2.8	DETAILS: ROADS AND EARTHWORKS	08028-C-DT-004-001	D
2.9	LAYOUT: EARTHWORKS AND PLATFORMS	08028-C-LA-001-001	B
2.10	LAYOUT: SEWER RETICULATION	08028-C-LA-002-001	C
2.11	LAYOUT: STORMWATER RETICULATION	08028-C-LA-003-001	C
2.12	LAYOUT: WATER RETICULATION	08028-C-LA-004-001	C
2.13	LAYOUT: ROAD MARKINGS AND SIGNAGE	08028-C-LA-005-001	C
2.14	LONGITUDINAL SECTIONS: ROADS	08028-C-LS-003-001	B
2.15	CROSS SECTIONS: EARTHWORKS	08028-C-CS-001-001	B
2.16	CROSS SECTIONS: BOUNDARY WALLS	08028-C-CS-002-001	B
3.0	STRUCTURAL ENGINEERING DRAWINGS		
3.1	GENERAL NOTES AND DETAILS	08028-S-GE-001-001	C
3.2	FOUNDATION LAYOUT AND DETAILS	08028-S-GE-001-002	C
3.3	SURFACE BED LAYOUT AND DETAILS	08028-S-GE-001-003	C
3.4	PERIMETER AND RETAINING WALL DETAILS	08028-S-GE-001-004	C
3.5	CENTRAL CORE ROOF DETAILS	08028-S-GE-001-014	B
3.6	CONCRETE ROOF SLAB AND STEEL COLUMN AND WASHBAY DETAILS	08028-S-GE-001-015	D
3.7	WALKWAYS AND LOCKER ROOM DETAILS	08028-S-GE-001-016	D
3.8	32.685 KL ELEVATED TANK AND GENERATOR PLINTH DETAILS	08028-S-GE-001-017	A
3.9	FOUNDATION AND SURFACE BED REINFORCEMENT	08028-S-GE-001-018	A
3.10	ROOF SLAB AND BEAMS	08028-S-GE-001-019	A
3.11	AMMUNITION / WEAPON LOCKER AND WALK IN SAFE	08028-S-GE-001-020	A
3.12	RETAININ WALL AND PERIMETER STRIP FOOTING	08028-S-GE-001-021	A
3.13	ELEVATED TANK BASE AND GENERATOR PLINTH	08028-S-GE-001-022	A
3.14	BENDING SCHEDULES	08028-S-GE-001-023	A



PART C3: SCOPE OF WORKS

4.0 ELECTRICAL ENGINEERING DRAWINGS			
4.1	SITE RETICULATION LAYOUT	08028-E-LA-001-001	A
4.2	SMALL POWER LAYOUT (MAIN AND CELL BUILDING)	08028-E-LA-002-001	A
4.3	LIGHTING LAYOUT (MAIN AND CELL BUILDING)	08028-E-LA-003-001	A
4.4	AREA LIGHTING	08028-E-LA-003-002	A
4.5	LIGHTNING PROTECTION LAYOUT (MAIN AND CELL BUILDING)	08028-E-LA-004-001	A
4.6	FIRE DETECTION LAYOUT (MAIN AND CELL BUILDING)	08028-E-LA-005-001	A
4.7	SECURITY AND ACCESS CONTROL	08028-E-LA-006-001	A
4.8	MAIN AND CELL BUILDING CONTAINMENT LAYOUT	08028-E-LA-007-001	A
4.9	SINGLE LINE DIAGRAM	08028-E-SH-001-001	A
4.10	SINGLE LINE DIAGRAM	08028-E-SH-001-002	A
4.11	SUPPLY TO MAIN DB (HOLDING CELL) (ESSENTIAL) (MUNICIPAL/GENSET) & MAIN DB (HOLDING CELL) (NON-ESSENTIAL HVAC) (MUNICIPAL/GENSET)	08029-E-SH-001-003	A
5.0 MECHANICAL ENGINEERING DRAWINGS			
5.1	HVAC LAYOUT	HVAC-100	A
5.2	DOMESTIC WATER	WETP-200	A
5.3	DRAINAGE LAYOUT	WETD-300	A
5.4	FIRE PROTECTION LAYOUT	FIRE-500	A

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C3.3.2. Construction Drawings

Construction drawings will, in terms of Clause 3.7 of the **JBCC** Principal Building Agreement Edition 4.1 of March 2005 be issued to the **contractor** by the **principal agent** on the commencement date and from time to time as required

The successful **contractor** will be supplied with three (3) sets of unreduced paper prints of each drawing free of charge. Any additional prints required will be for the account of the **contractor**

The **contractor** shall conform in all aspects to the drawings and specifications and to any written instructions, which the **principal agent** may provide him with during the contract

It is the **contractor's** responsibility to ensure that work is carried out in accordance with the latest revision of the construction drawings

Only figured dimensions may be used, and the drawings shall not be scaled unless the **contractor** is so instructed by the **principal agent** in writing. The **principal agent** will upon written request provide any dimensions that may have been omitted from the drawings

Should any differences or contradictions exist in the documents or dimensions used in the documents, the **contractor** shall be responsible for obtaining clarification thereof from the **principal agent**. Such clarification shall be in writing and shall be final and binding

Should the **contractor** fail to seek clarification of any differences or contradictions, the **contractor** shall be solely liable for any costs that may arise due to his failure in this regard

C3.3.3. As-built drawings

The **contractor** shall mark up on drawings provided to him for this purpose the exact positions and details of all infrastructure, pipelines, and the like constructed under the contract, as well as the details of all existing services found during the contract. The marked-up drawings shall be handed to the **principal agent** monthly as the work progresses

C3.4. PLANT AND MATERIALS

C3.4.1. Plant and materials supplied by the employer

No plant and "free issue" materials are provided by the **employer**

C3.4.2. Materials, samples, and shop drawings

The **contractor** shall, at his own cost, supply all samples that may be required. Material or **works** not conforming to the approved samples shall be rejected. The **employer's agent** reserves himself the right to submit samples to any tests to ensure that the material represented by the sample conforms to the requirements of the specifications

The recommendations of the manufacturers of patented materials must be strictly adhered to regarding the use, mixing, application, fastening, etc. thereof except when otherwise instructed in writing by the engineer

Where proprietary materials are specified, it is to indicate the quality or type of materials or articles required, and where the terms "or other approved", "or approved equivalent", or "similar approved" are used in connection with proprietary materials or articles, it is to be understood that the approval shall be at the sole discretion of the **employer's agent**

C3.5. ACCESS TO WORKS SITE

See item C4.5 of Part 4: Site Information

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C3.6. EXISTING SERVICES

C3.6.1. Known services

Items have been allowed in the **bills of quantities** for dealing with and protecting existing services where they are known

The **contractor** shall take whatever extra precautions are required to protect all existing services from damage during the period of the contract. The **contractor** shall make use of hand excavation to expose services. Any damage to existing services indicated by the relevant service providers or other damage as a result thereof, shall be for the **contractor's** account

The **contractor** shall engage with the **employer**, local authority and **principal agent** to identify the positions of all existing services. Such service positions must be compared to those indicated on the drawings and any additional services so located, must be brought to the attention of the **principal agent** and marked up on the drawings. These will then become known services.

All existing services shall be regarded as live and operational until otherwise advised by the responsible service provider or official

C3.6.2. Treatment of existing services

Before the **contractor** commences operations, he must discuss with and have the approval of the **employer**, authority, or owner concerned regarding the method he proposes to use for relocating or safeguarding any services and existing **works** he may encounter during construction

C3.6.3. Use of Detection Equipment

Where the presence of underground cables is suspected the **contractor** shall use such methods as necessary, including cable or metal detectors, to prevent unnecessary damage and consequent delay and cost of repair

C3.6.4. Damage to services

The **contractor** shall be responsible for any damage to such existing services and **works** in the execution of this contract and shall reimburse the **employer**, authority, or the owner concerned for any repairs required and for damages

The **contractor** shall be responsible for immediately notifying the **employer** or **employer's agent** and the authorities concerned regarding any damage caused to public services and existing **works**

C3.7. ALTERATIONS, ADDITIONS, EXTENSIONS, AND MODIFICATIONS TO EXISTING WORKS

The **contractor** shall satisfy himself within 14 days of moving onto a site that the dimensional accuracy, alignment, levels, and setting out of existing structures or components thereof are compatible with the proposed works and procedures. Any discrepancies shall immediately be brought to the attention of the **principal agent** in writing where this is not the case

Failure by the **contractor** to timeously give written notice to the **principal agent** in this regard shall result in any claim for additional time and/or costs being rejected

New structures shall, as far as possible, match existing structures regarding the type of materials and finishes unless otherwise stated. The **contractor** shall provide the **employer's agent** with samples of bricks, blocks, and other materials and finishes for approval at least 3



weeks prior to starting any work. Only once the **principal agent** has given approval may the **contractor** place orders for these materials

C3.8. PERMITS AND WAY LEAVES

The **contractor** shall obtain the necessary approvals and shall be required to comply with the authorities, service providers, and landowners' / occupiers' requirements at all times

The **contractor** will be required to take cognizance of, and comply with, the general wayleave and 'permission to occupy' requirements of the authorities, service providers, and landowners/occupiers during the construction of the works

The **contractor** will be required to confirm that permission has been granted and that the authorities, service providers, landowners/ occupiers, and all affected parties have been informed of the **contractor's** intentions before commencing work on each property

C3.9. MANAGEMENT OF THE WORKS

C3.9.1. Planning and programming

The programme shall be in the form of a bar chart (Gantt Chart) or similar acceptable time/activity form reflecting the proposed sequence and tempo of the various activities. The programme shall clearly indicate the critical path, the inter-dependency of activities, and the sequence in which the **contractor** proposes to construct the **works**

During the course of the contract, whenever a significant change occurs, the **contractor** shall submit a revised programme allowing the allocation of resources, to the **principal agent** for approval. The **contractor** shall update the programme whenever construction progress differs by more than a week from anticipated in the programme

C3.9.2. Quality plans and control

The onus to produce work which conforms in quality and accuracy of detail to the requirements of the specifications and drawings rests with the **contractor**, and the **contractor** shall, at his own expense, institute a quality-control system and provide experienced engineers, foremen, surveyors, materials technicians, other technicians, and technical staff, together with all transport, instruments, and equipment, to ensure adequate supervision and positive control of the **works** at all times

The costs of all supervision and process control, including testing thus carried out by the **contractor** shall be deemed to be included in the rates tendered for the related items of work

The **contractor's** attention is drawn to the provisions of the various standardized specifications regarding the minimum frequency of testing that will be required for process control. The **contractor** shall, at his own discretion, increase this frequency where necessary to ensure adequate control

On completion of every part of the work and submission thereof to the engineer for examination, the **contractor** shall furnish the **employer's agent** with the results of all relevant tests, measurements, and levels to indicate compliance with the specifications

The **contractor** shall at his own cost, supply all samples that may be required. Material or work not conforming to the approved samples shall be rejected. The engineer reserves the right to submit samples to any tests to ensure that the material represented by the sample conforms to the requirements of the specifications

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No separate payment will be made for such testing by an approved independent laboratory, the costs of which will be deemed to be included in the **contractor's** tendered rates for the various items of work requiring testing in accordance with the specifications

The **contractor** shall provide a fortnightly progress report covering work that is the subject of a scope of works

C3.9.3. Payment Certificates

The **contractor** shall submit invoices at monthly intervals in terms of Clause 31.0 of JBCC Principal Building Agreement Edition 4.1 of March 2005 in respect of **works** completed during the preceding period and **materials and goods on site**. The work shall be measured according to the format of the **bills of quantities** and measurements should be taken together with the **employer's agent** (e.g quantity surveyor) and are subject to agreement as to the status of work completed

The **contractor** will submit his invoice, together with invoices and other supporting documentation to the **principal agent** in terms of contract

The **payment certificate** will be scrutinised by the **employer** prior to payment within the prescribed period stipulated on the contract. The **contractor** must ensure that, allowing for the time allowed for processing **payment certificates** by the **employer**, his invoice is submitted in good time to allow for the payment cycle to be met

The **contractor's** tendered rates for the relevant items in the **bills of quantities** shall include full compensation for all possible additional costs which may arise from this, and no claims for extra payment due to inconvenience as a result of the modus operandi will be considered

Each **payment certificate** must, where applicable, be accompanied by:

- a) Monthly local content report
- b) **Tax Invoice**
- c) Labour intensive report
- d) Contract participation and contract skills development goals reports
- e) Supporting documentation for **materials and goods**

C3.9.4. Community Liaison Officer

It is the responsibility of the **contractor** to appoint a competent Community Liaison Officer (CLO) for the duration of the contract

The primary role of the CLO will be liaison and facilitation of communication which shall include

- a) Represent the community and assist the **employer**, the **employer's agent** and the **contractor** with communication between them and the community
- b) Inform community regarding the project detail, safety precautions and programme.
- c) Be available at the **site** offices when required in terms of the contract.
- d) Assist with relocation of people, where applicable
- e) Maintain and up-to-date record of potential employees within the community and provide the **contractor** with copies of this information

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PART C3: SCOPE OF WORKS

- f) To identify, screen and nominate labour from the community in accordance with the **contractor's** requirements and determine, in consultation with the **contractor**, the needs of local labour for employment and relevant technical training, where applicable.
- g) Liaise between principal **contractor** and labour regarding wages and conditions of employment.
- h) Communicate daily with the principal **contractor** on labour related issues such as numbers and skills.
- i) Identify possible labour disputes, unrest, strikes, etc., in advance and assist in their resolution.
- j) Have a good working knowledge of the contents of the contents of the contract document regarding labour and training matters.
- k) Attend all meetings at which the community and/or labour is represented or discussed.
- l) Attend contract site meetings and report on community and labour issues of these meetings.
- m) Co-ordinate and assist with the obtaining of information regarding the community's needs (questionnaires, etc.)
- n) Inform local labour of their conditions of temporary employment, to ensure their timeous availability and to inform them they will they will be relieved.
- o) Ensure that all labour involved in activities when tasks have been set, are fully informed of the principle of task based work.
- p) Attend disciplinary proceedings to ensure that hearings are fair and reasonable.
- q) Keep a daily written record of interviews and community liaison.
- r) Arrange venues for training if required.
- s) Assist with the training and education of the community regarding the correct usage of the services, where applicable.
- t) Any other duties that may became necessary as the works progress.

The CLO shall have no authority to issue any instructions to the **contractor**. The CLO shall be neutral to all parties and endeavour to remain impartial should any conflict arise

Responsibility for identifying a pool of suitable labour shall rest with the CLO, although the **contractor** shall have the right to choose from the pool. The **contractor** (and sub-contractors) shall have the right to determine the total number of labourers required at any one time, which may vary throughout the contract

The **contractor** shall have the right to replace labour that is not performing adequately and the replacement of any labour shall be done in conjunction with the CLO

Due cognizance must be taken of the risk of the Community Liaison Officer not being a member of the targeted community, and/or the Community Liaison Officer not being recommended by the Ward Councilor(s)

C3.10. LABOUR-INTENSIVE WORK

Applicable: Yes No

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If yes;

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work. Provided, however, that should adequate and appropriate labour not be available within the locality, other labour may be employed to satisfactory proof that reasonable endeavour has been made to employ labour from the immediate locality

The **contractor** through the appointed CLO shall communicate with the local community leaders or project steering committee where applicable with purpose of negotiating with them regarding the utilization of local labour in the construction process

In this regard, the **contractor** shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The **contractor** shall in general maximize the involvement of the local community

C3.10.1. Generic Labour-Intensive Specification

Contractors are referred to the Guidelines for the Implementation of Labour-intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP) for the generic labour-intensive specification (Hereinafter referred to as "Guideline") applicable to the contract

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- a) trenches having a depth of less than 1.5 metres
- b) stormwater drainage
- c) roads
- d) sidewalks and non-motorised transport infrastructure
- e) water and sanitation

Precedence

Where this specification is in conflict with any other standard or specification referred to in the C3: Scope of Works to this contract, the requirements of this specification shall prevail

Hand excavatable material

Hand excavatable material is:

a) granular materials:

- i. whose consistency when profiled may in terms of table 2 be classified as very loose, loose, medium dense, or dense; or
- ii. where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;

b) cohesive materials:

- i. whose consistency when profiled may in terms of table 2 be classified as very soft, soft, firm, stiff and stiff / very stiff; or

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