



Repairs and Renovations  
Indwe Police Station

Brought Forward		
<u>Roll-up doors fixed to brickwork or concrete complete including locks, guides, hinges, fixing bolts, tracks etc. to architects specification</u>		
3	Manually operated roll-up door for 2400 x 2100mm high	No 1
<b><u>STEEL RECORDROOM AND STRONGROOM DOORS, VENTILATORS, ETC</u></b>		
<u>Strongroom doors etc suitable for 230mm walls fixed to brickwork or concrete</u>		
4	Mutual Safe 164mm thick DS02 strongroom door inclusive of galvanised mild steel frame as supplied with door by manufactured specialist and 40mm diameter bolts(4 front & 4 back), 7 lever security key lock as per SAPS door schedule drawing NO: F0245-D501	No 1
<b><u>HOT DEEP GALVANISED STEEL GATES, SCREENS, ETC</u></b>		
<u>Welded screens and gates to concrete or brickwork with powder coated finish (Color: White) to architect's specifications</u>		
5	Re-installation of double gate (G02) 1523 x 2125mm high of 25 x 25 mild steel square tube welded to form frame and 10 x 10mm mild steel bars placed at 100mm centres at 45 degrees angle rails and 10mm flat bar section horizontal rails at 132mm centres fixed to concrete or brickwork with M12 anchor bolts to SAPS architect's details no: F0245-D501	No 1
<b><u>METALWORK SUNDRY</u></b>		
<u>Chromadek corrugated sheet iron chimney cover complete including 25.4mm x 25.4mm Square tubic welded frame, side wall flashing to detail all to architect's specification</u>		
6	1494 x 770 x 219mm High overall chimney cover	No 1

Carried Forward to Summary of Section No. 2

Section No. 2  
Bill.No. 8  
Metalwork  
FACILITY MANAGEMENT

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Repairs and Renovations  
Indwe Police Station

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 9</u></b>			
<b><u>PLASTERING</u></b>			
<b><u>PREAMBLES</u></b>			
The Tenderer is referred to the relevant Clauses in the document PW 371 Particular Specification annexed to these bill of quantities and the supplementary preambles here under.			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
NOTE:			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
<b><u>GRANOLITHIC</u></b>			
<b><u>Preparation</u></b>			
For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic.			
Carried Forward		R	
Section No. 2 Bill No. 9 Plastering FACILITY MANAGEMENT			

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**Brought Forward**

Mix

Granolithic mix for surface beds, composed of 1 part cement: 2 parts sand and 1 part 5mm granite aggregate finishes as per finish required under finishes.

Cement to be manufactured in accordance with SANS 50197-1

Panels

Grano finish to be laid in panels of not more than 20m<sup>2</sup> with v-joint between panels.

As necessary, form reeding to stair treads with 100mm reeding tool.

SCREEDS

Screed to make up for floor finish thickness variations. Top of different floor finishes to be level as per details.

Cement is to manufactured in accordance with SANS 50197-1

Mix

Floor screed mix for concrete surface beds, composed of 1 part cement and 3 parts sand. Cement is to be manufactured in accordance with SANS 50197-1

CEMENT PLASTER

All existing walls are to be checked to make sure the plaster is sound. Where necessary chip off unsound and loose plaster and plaster with plaster mix composed of 1 part cement and 6 parts sand 10mm-20mm thick, finished with a wood float. Cement to be manufactured in accordance with SANS-5097-1 and sand to conform to SANS 1083:1994

SCREEDS

**Carried Forward**

Section No. 2

Bill No. 9

Plastering

**FACILITY MANAGEMENT**

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Brought Forward

1:3 cement plaster screeds wood floated, on concrete

1	25mm Thick on floors	m2	167
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**INTERNAL PLASTER**

1:6 Cement Plaster wood floated on brickwork

2	On walls	m2	98
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3	On walls in patching	m2	7
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**EXTERNAL PLASTER**

1:6 Cement Plaster wood floated on brickwork

4	On walls	m2	256
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5	On walls in patching	m2	5
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Carried Forward to Summary of Section No. 2

Section No. 2  
Bill No. 9  
Plastering  
FACILITY MANAGEMENT

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Repairs and Renovations  
Indwe Police Station

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 10</u></b>			
<b><u>TILING</u></b>			
<b><u>PREAMBLES</u></b>			
The Tenderer is referred to the relevant Clauses in the document PW 371 Particular Specification annexed to these bill of quantities and the supplementary preambles here under.			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Descriptions</u></b>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
<b><u>FLOOR TILING</u></b>			
<b><u>Porcelain tiles</u></b>			
Allow all new concrete work and screeds to cure for at least 28 days before new concrete work and screeds must have a moisture test can be commenced. When tiling directly onto concrete, and free of all traces of shutter release and curing agent contaminants, preferably by scarifying or sandblasting.			
Any screeding must be firmly attached to the underlying (no crumbling, cracking etc.) and must be of a quality and defective areas must be removed and the floor made good			
Carried Forward		R	
Section No. 2 Bill No. 10 Tiling FACILITY MANAGEMENT			

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**Brought Forward**

Application

Apply Tal Gold Star 6 rapid setting adhesive mixed 20kg with 5 litres of Tal Bond (replacing the water in the mix) using a notched Tal floor trowel. Grout with light grey Tal Wall and floor grout mixed 20kg with 6 litres of Tal Bond (replacing the water in the mix). Allow for 3 tile colours and pattern as per flooring plan. Colours to be chosen from presented

WALL TILING

Mosaic Tiling

The rendering must be firmly attached to the substrate, must be integrally sound (no crumbling, cracking etc.) and must be a quality and consistency suitable for tiling. The background must be clean, dry, firm and sound and free from dust, loose particles and surface contaminants before proceeding. renders should be left with a wood float finish and should not be skim coated with gypsum plaster.

FLOOR TILING

600 x 600 x 10mm (PC R310/m<sup>2</sup>) glazed porcelain floor tiles on 3mm bedding on concrete and flush pointed with dove grey epoxy grout.

1	On smooth and level screeded floors.	m2	260
2	Skirting 150mm high of cut tiles	m	71

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

Section No. 2

Bill No. 10

Tiling

**FACILITY MANAGEMENT**

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 11</u></b>			
<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
The Tenderer is referred to the relevant Clauses in the document PW 371 Particular Specification annexed to these bill of quantities and the supplementary preambles here under.			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>			
<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>			
<i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i>			
Carried Forward		R	
Section No. 2 Bill No. 11 Plumbing and Drainage (Provisional) <b>FACILITY MANAGEMENT</b>			

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Repairs and Renovations  
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**Brought Forward**

R

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Stormwater channels

Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site

French drains

Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, "2" geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site

Septic tanks

Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site

Stainless steel basins, sinks, wash troughs, urinals, etc

Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)

Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)

Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

**Carried Forward**

R

Section No. 2  
Bill No. 11  
Plumbing and Drainage (Provisional)  
**FACILITY MANAGEMENT**

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Repairs and Renovations  
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**Brought Forward**

R

Sealing of edges

Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone

PVC-U pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

PVC-U pressure pipes and fittings

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

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

High density polyethylene (HDPE) pipes and fittings

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

Polypropylene pipes

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

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

**Carried Forward**

R

Section No. 2  
Bill No. 11  
Plumbing and Drainage (Provisional)  
**FACILITY MANAGEMENT**

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**Brought Forward**

R

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "P" type. Capillary solder fittings shall comply with ISO 2016

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

Reducing fittings

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

Fixing of pipes

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

Paper wrapping to pipes

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

**Carried Forward**

R

Section No. 2  
Bill No. 11  
Plumbing and Drainage (Provisional)  
**FACILITY MANAGEMENT**

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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Disinfection of water pipework</u></p> <p>Water pipework is to be disinfected at completion</p> <p><u>Petroatum anti-corrosion tape</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 75% overlaps</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001</p> <p><u>General</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site</p>	<p style="text-align: center;"><b>R</b></p>	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 11 Plumbing and Drainage (Provisional) <b>FACILITY MANAGEMENT</b></p> <p style="text-align: right; font-size: 2em;">181</p>	<p style="text-align: center;"><b>R</b></p>	



Repairs and Renovations  
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**Brought Forward**

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

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

As-built drawings

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

**RAINWATER DISPOSAL**

0.8mm H3003h 14 Seamless Aluminium pre-painted gutters and rainwater pipes (Colour: Off-white)

1	150 x 150mm Ogee eaves gutters with fixing brackets at 300mm centres	m	62
2	Extra over eaves gutter for stopped end	No	9
3	Extra over gutter for angle	No	2
4	Extra over eaves gutter for outlet for 150 x 150mm pipe including wire grating	No	9
5	150 x 150mm Fluted rainwater downpipes in continuous lengths	m	23
6	Extra over rainwater downpipe for eaves offset 400mm projection	No	9
7	Extra over rainwater downpipe for shoe	No	9

**Carried Forward**

Section No. 2  
Bill No. 11  
Plumbing and Drainage (Provisional)  
**FACILITY MANAGEMENT**

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Brought Forward			R
<u>PVC-U pipes</u>			
8	50mm Pipes	m	12
<u>Extra over PVC-U pipes for fittings</u>			
9	50mm BSP adaptor to cast iron	No	5
10	50mm Bend	No	3
11	110mm Pan connector	No	2
<u>SANITARY FITTINGS</u>			
<u>"Vaal" or similar approved</u>			
12	Low level WC suite comprising white "Hibiscus Elite" vitreous china pan Code 772402 with heavy-duty Bemis vandal resistant thermoplastic water resistant toilet seat with high gloss finish and Parker-Shires cistern with flushing mechanism complete	No	2
<u>SOIL DRAINAGE</u>			
13	Excavation in earth not exceeding 1m deep for pipe trenches	m3	16
14	Backfilling to pipe trenches	m3	16
<u>Normal duty (Class 51) PVC-U sewer and drain pipes</u>			
15	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	2
16	110mm Pipes laid in and including trenches not exceeding 1m deep	m	8
<u>Extra over normal duty (Class 51) PVC-U sewer and drain pipes for fittings</u>			
17	50mm Bend	No	2
Carried Forward			R
Section No. 2			
Bill No. 11			
Plumbing and Drainage (Provisional)			
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Brought Forward			R
18	110mm Junction	No	3
19	110mm Access pipe	No	2
20	50mm Access bend	No	4
21	110mm Rodding eye	No	2
<u>Cast iron gulleys</u>			
<u>uPVC gulleys</u>			
22	110mm Gulley not exceeding 500mm deep	No	2
<u>Testing</u>			
23	Testing soil drainage system		Item
<b><u>WASTE UNIONS ETC</u></b>			
<u>Marley:</u>			
24	32mm chromium plated basin waste union	No	1
<b><u>TRAPS ETC</u></b>			
25	15mm Rubber "P" or "S" trap	No	3
26	15mm Rubber reseal "P" or "S" trap	No	2
<b><u>TAPS, VALVES, ETC</u></b>			
27	15mm Brass stopcock	No	1
Carried Forward to Summary of Section No. 2			R
Section No. 2			
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Plumbing and Drainage (Provisional)			
FACILITY MANAGEMENT			

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Repairs and Renovations  
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Item No		Quantity	Rate	Amount
	<b><u>BILL NO.12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PREAMBLES</u></b>			
	The Tenderer is referred to the relevant Clauses in the document PW 371 Particular Specification annexed to these bill of quantities and the supplementary preambles here under.			
	<b><u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u></b>			
	<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>			
	<u>Prepare stop and apply one coat professional gypsum and plaster primer undercoat (Code: UC56) and apply two coats professional super low sheen (Code: UC56)</u>			
1	Walls	m2	705	
	<b><u>ON EXTERNAL FLOATED PLASTER SURFACES</u></b>			
	<u>Prepare stop and apply one coat professional gypsum and plaster primer undercoat (Code: UC56) and apply two coats professional super low sheen (Code: UC56)</u>			
2	Walls	m2	1,029	
	<b><u>ON FIBRE-CEMENT BOARD SURFACE</u></b>			
	<u>Prepare stop and apply one coat wood primer (UC2) and two coats Professional Superior Low Sheen (PEM 1000)</u>			
3	Fascias, including priming metal jointing strips	m2	28	
4	Barge boards, including priming metal jointing strips	m2	27	
	<b>Carried Forward</b>			
	Section No. 2			
	Bill No. 12			
	Paintwork			
	<b>FACILITY MANAGEMENT</b>			

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Brought Forward

R

**ON PLASTER BOARD**

Prepare stop and apply one coat Professional Gypsum & Plaster Primer (PP700) and two coats "Plascon Super Acrylic Matt (PEM900)" paint:

5	Ceilings	m2	89
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**ON METAL**

Prepare stop and apply, one coat "Plascon Metal Primer (code: UC 501)" Primer to achieve a continuous film and two full coats Zinc Phosphate Primer red Oxide (code: UC 207) (Colour: Samples to be provided)

6	Windows	m2	12
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7	Door frames etc	m2	6
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One coat UV-resistant water based white low sheen acrylic iron primer and two coats UV-resistant water based low sheen acrylic roof paint (code: TRP 62), on galvanised steel

8	Corrugated roofs (measured on flat)	m2	39
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Prepare, stop and apply two coats red oxide and hot deep galvanise

9	Gates, grilles, burglar screens, balustrades, etc	m2	45
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**ON WOOD**

Prepare stop and apply, one undercoat and two coats with velvaco or simila approved non-drip polyurethane enamel with semi-gloss satin sheen finish:

10	Doors	m2	4
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Carried Forward

R

Section No. 2  
Bill No. 12  
Paintwork  
FACILITY MANAGEMENT

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Repairs and Renovations  
Indwe Police Station

Brought Forward				R
<u>Prepare stop and apply, one undercoat and two coats with velvagio or simila approved non-drip polyurethane enamel with semi-gloss satin sheen finish:</u>				
11	Doors	m2	38	
12	Door frames etc	m2	11	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 12				
Paintwork				
FACILITY MANAGEMENT				

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Repairs and Renovations  
Indwe Police Station

**SECTION SUMMARY - Building Works**

Bill  
No

- |    |                                      |
|----|--------------------------------------|
| 1  | Alterations (Provisional)            |
| 2  | Concrete Form work and Reinforcement |
| 3  | Masonry                              |
| 4  | Roof Covering                        |
| 5  | Carpentry and Joinery                |
| 6  | Ceiling and Access Flooring          |
| 7  | Ironmongery                          |
| 8  | Metalwork                            |
| 9  | Plastering                           |
| 10 | Tilling                              |
| 11 | Plumbing and Drainage (Provisional)  |
| 12 | Paintwork                            |

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Amount

Carried to Final Summary

R

Section No. 2  
**FACILITY MANAGEMENT**

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Repairs and Renovations  
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Item  
No

Quantity

Rate

Amount

**BILL NO. 1**

**WALKWAY, ASSEMBLY & PARKING**

**PREAMBLES**

For Preambles refer to "Department of Public Works: Specification of Materials and Methods to be used - PW371" which shall be read in conjunction with and shall apply to all items in these Bills of Quantities.

**SUPPLEMENTARY PREAMBLES**

Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect/Engineer.

Carried Forward

R

Section No. 3

Bill No. 1

Walkway, Assembly & Parking

**FACILITY MANAGEMENT**

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Brought Forward

R

User note

*Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions*

*Take note that these Model Bills of Quantities utilise abbreviated descriptions*

*The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. **Where such model preambles are not applicable** (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications*

*Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008*

**LANDSCAPING**

Landscaping specification

Refer to the landscape architect's specification annexed to these bills of quantities which is supplementary to and shall take precedence over the "Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors"

Excavate in earth and dispose on site

1	Not exceeding 150mm deep to remove humps, form shallow ditches, etc	m2	1
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Carried Forward

R

Section No. 3  
Bill No. 1  
Walkway, Assembly & Parking  
**FACILITY MANAGEMENT**

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Brought Forward			R
<u>Ground preparation</u>			
2	Cultivation and preparation of areas to be planted	m2	1
<u>Selected topsoil obtained from prescribed stock piles on site, including spreading and levelling</u>			
3	In plant beds, grassed areas and holes for trees, shrubs, etc	m3	12
<u>Trees</u>			
4	Palm tree (PC R2800.00/No) to match existing	No	5
<b><u>ROADWORK, PARKING AREAS AND PAVING</u></b>			
<u>User note</u>			
Where SABS 1200 or SANS preambles are not applicable, refer to other suitable construction standards or provide full description			
<u>Testing of material and filling</u>			
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series			
<u>Precast concrete block road surfacing</u>			
Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications			
<u>Site clearance</u>			
5	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	252
Carried Forward			R
Section No. 3 Bill No. 1 Walkway, Assembly & Parking FACILITY MANAGEMENT			

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Brought Forward			R
<u>Extra over bulk excavation in earth for breaking up and removing</u>			
6	Damaged pavers	m3	38
<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	38
<u>Keeping excavations free of water</u>			
8	Keeping excavations free of water other than subterranean water	Item	
<u>Compaction of surfaces</u>			
9	Compaction of ground surfaces under parking areas etc by wetting and compacting with 12 passes of a 3-sided 25 kilo Joule high energy impact compactor	m2	252
10	Compaction of ground surfaces under pavings etc, including scarifying for a depth of 75mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	252
<u>LAYER WORK</u>			
<u>Selected earth filling obtained from the excavations or prescribed stock piles on site</u>			
11	Under road islands etc, compacted to 95% Mod AASHTO density	m3	38
12	Base course under parking areas etc, compacted to 90% Mod AASHTO density	m3	38
<u>Filling supplied by the contractor under parking areas, roadways, etc</u>			
13	G5 gravel-soil material compacted to 95% Mod AASHTO density	m3	38
Carried Forward			R
Section No. 3 Bill No. 1 Walkway, Assembly & Parking FACILITY MANAGEMENT			

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Brought Forward			R
<u>50mm Thick precast concrete interlocking block paving of 220 x 108mm grey colour paving blocks in accordance with SANS 1058, laid to falls on and including 20mm thick sand layer with joints filled in with sand, compacted with a vibration compactor.</u>			
14	Paving to parking areas etc to falls, including necessary straight edge blocks	m2	252
15	Paving to sidewalks etc to falls, including necessary straight edge blocks	m2	14
<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>			
<u>User note</u>			
<i>Where SANS 927 in the following three descriptions is not applicable, refer to other suitable construction standards or provide full specifications</i>			
16	150 x 300mm High kerbs (SANS 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	66
17	150 x 300mm High kerbs (SANS 927 fig 3) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, circular on plan exceeding 4m radius, formed with straight kerbs, including excavation, backfilling, etc	m	6
<u>Two-part grey polysulphide sealing compound, including backing cord, bond breaker, primer, etc</u>			
18	6 x 6mm In saw-cut joints	m	14
<u>One layer of 250 micron consol plastics gunplas black waterproof sheeting sealed at laps with gunplas presure sensitive tape:</u>			
19	Under surface bed	m2	252

Carried to Final Summary

Section No. 3  
Bill No. 1  
Walkway, Assembly & Parking  
**FACILITY MANAGEMENT**

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Repairs and Renovations  
Indwe Police Station

Item No		Quantity	Rate	Amount
	<b><u>GENERATOR BLOCK</u></b>			
	<b><u>Excavation and Trenching</u></b>			
	<b><u>Internal Installation</u></b>			
	<u>General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services</u>			
1	Excavation and backfilling in soft soil	m3	18	
2	Excavation and backfilling in hard rock	m3	9	
	<b><u>Cable Sleeves</u></b>			
	<u>Supply and installation of PVC Sleeves through floor construction to power distribution board with standard radius sleeve bends</u>			
3	110mm Diameter for power cable	m	50	
	<u>Radius bends:</u>			
4	110mm Diameter	No	8	
	<b><u>Distribution Boards</u></b>			
	<u>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal</u>			
5	Supply and install Kiosk- MAIN	No	2	
6	Supply and install DB - MAIN-Non Essential	No	2	
7	Supply and install DB - MAIN-Essential	No	2	
	<b><u>Low Voltage PVC Cables</u></b>			
	Carried Forward		R	
	Section No. 4			
	Bill No. 1			
	Generator House			
	<b>FACILITY MANAGEMENT</b>			

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Repairs and Renovations  
Indwe Police Station

Brought Forward			R
<u>Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches</u>			
8	50mm <sup>2</sup> 4 core PVC SWA Cable	m	60
9	35mm <sup>2</sup> 4 core PVC SWA Cable	m	35
10	25mm <sup>2</sup> BCEW	m	60
11	16mm <sup>2</sup> BCEW	m	35
<u>Terminations:</u>			
12	25mm <sup>2</sup> BCEW	No	1
13	16mm <sup>2</sup> BCEW	No	1
<u>Conduit Work</u>			
<u>Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.</u>			
14	Built or Chase into brick or concrete work:	m	60
15	Built or Chase into brick or concrete work:	m	35
<u>In Ceiling space and Timber work:</u>			
16	20mm PVC Conduit	m	60
<u>Conduit Boxes</u>			

Carried Forward

Section No. 4  
Bill No. 1  
Generator House  
FACILITY MANAGEMENT

195



Repairs and Renovations  
Indwe Police Station

Brought Forward

R

Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.

17 20mm diameter 4 way type(round box)

No

1

Wall Boxes

Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.

Flush mounted type:

18 100 x 50 x 50mm

No

2

19 Round PVC Box complete with cover plate

No

2

PVC Wiring

PVC Wiring in conduits:

16mm<sup>2</sup> for lights circuits

20 16mm<sup>2</sup> single core Cu. pvc cable, sheath colour: Red

m

25

21 16mm<sup>2</sup> single core Cu. pvc cable, sheath colour: Black

m

25

22 16mm<sup>2</sup> single core Cu. pvc cable, sheath colour:  
Yellow/Green

m

25

Stranded Bare Copper Earth Wire

Carried Forward

R

Section No. 4

Bill No. 1

Generator House

FACILITY MANAGEMENT

196



Repairs and Renovations  
Indwe Police Station

Brought Forward			R
<u>Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.</u>			
23	4mm <sup>2</sup> Red	m	25
24	4mm <sup>2</sup> Black	m	25
25	4mm <sup>2</sup> Yellow/Green	m	25
<b><u>LIGHT SWITCHES, SWITCHED SOCKET OUTLETS, ETC.</u></b>			
<u>Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification.</u>			
26	One lever One Way switch Recessed mount	No	2
<b><u>Isolators</u></b>			
27	25A Isolator points	No	5
<b><u>Socket Outlets</u></b>			
<u>Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.</u>			
<u>Flush switched sockets type:</u>			
28	16A SA/Euro combined socket outlet	No	4
<b><u>Light Fittings</u></b>			
Carried Forward			R
Section No. 4 Bill No. 1 Generator House FACILITY MANAGEMENT			

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Repairs and Renovations  
Indwe Police Station

Brought Forward		
<u>Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.</u>		
<u>Fittings to be equal and similar approved to the below quoted manufacture.</u>		
29	Ceiling/wall mounted fitting 15W LED bulk head, Type A	No 1
30	Fluorescent fitting 1200mm 2x28W CFL - Interior, Type C	No 1
31	15W LED circular downlighters, Type D	No 1
<b><u>Electrical Tests</u></b>		
<u>Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.</u>		
32	Building installation	No 3
<b><u>Others</u></b>		
33	Electrical Site Establishment & Storage	Item
34	Transport Materials to Site	Item
35	Security, Supervision, Staff Accommodation	Item
36	Labelling & Documentation	Item

Carried Forward to Summary of Section No. 4

Section No. 4  
Bill No. 1  
Generator House  
FACILITY MANAGEMENT

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Repairs and Renovations  
Indwe Police Station

Item No		Quantity	Rate	Amount
<b><u>CANTEEN BLOCK</u></b>				
<b><u>Excavation and Trenching</u></b>				
<b><u>Internal Installation</u></b>				
<u>General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services</u>				
1	Excavation and backfilling in soft soil	m3	9	
2	Excavation and backfilling in hard rock	m3	5	
<b><u>Cable and Data Sleeves</u></b>				
<u>Supply and installation of PVC Sleeves through floor construction to power distribution board complete with standard radius sleeve bends</u>				
3	75mm Diameter for Data	m	50	
4	110mm Diameter for power cable	m	100	
<u>Radius bends:</u>				
5	75mm Diameter	No	4	
6	110mm Diameter	No	4	
<b><u>Draw Wires</u></b>				
7	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	No	2	
<b><u>Distribution Boards</u></b>				
Carried Forward			R	
Section No. 4 Bill No. 2 Canteen House FACILITY MANAGEMENT				

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Repairs and Renovations  
Indwe Police Station

Brought Forward			R
<u>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal</u>			
8	Supply and install DB - SUB 1	No	1
<u>Low Voltage PVC Cables</u>			
<u>Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches</u>			
9	16mm <sup>2</sup> 4 core PVC SWA Cable	m	60
10	10mm <sup>2</sup> BCEW	m	60
<u>Terminations:</u>			
11	16mm <sup>2</sup> 4 core PVC SWA Cable	No	4
12	10mm <sup>2</sup> BCEW	No	4
<u>Conduit Work</u>			
<u>Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.</u>			
<u>Built or Chase into brick or concrete work:</u>			
13	20mm PVC Conduit	m	2,000
14	25mm PVC Conduit	m	1,500

Carried Forward

Section No. 4  
Bill No. 2  
Canteen House  
FACILITY MANAGEMENT

200



Repairs and Renovations  
Indwe Police Station

Brought Forward			R
<u>In Ceiling space and Timber work:</u>			
15	20mm PVC Conduit	m	1,000
16	25mm PVC Conduit	m	750
<u>Conduit Boxes</u>			
<u>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.</u>			
17	20mm diameter 4 way type(round box)	No	100
<u>Outlet Boxes</u>			
<u>Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.</u>			
<u>Flush mounted type:</u>			
18	100 x 50 x 50mm	No	50
19	100 x 100 x 50mm	No	20
20	Round PVC Box complete with cover plate	No	40
21	20mm dia PVC	No	800
<u>PVC Wiring</u>			
<u>PVC Wiring in conduits:</u>			
22	2.5mm <sup>2</sup> for light circuits	m	3,200
23	4mm <sup>2</sup> for plug sockets circuits	m	4,000

Carried Forward

R

Section No. 4  
Bill No. 2  
Canteen House  
FACILITY MANAGEMENT

201



Repairs and Renovations  
Indwe Police Station

Brought Forward			R
24	6mm <sup>2</sup> for Air conditioning circuits	m	500
<b><u>Stranded Bare Copper Earth Wire</u></b>			
<u>Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.</u>			
25	1.5mm <sup>2</sup>	m	1,600
26	2.5mm <sup>2</sup>	m	2,000
27	4mm <sup>2</sup>	m	1,500
<b><u>Light Switches</u></b>			
<u>Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification.</u>			
28	16 A Crabtree 1 Lever 1 way switch complete with cover plate	No	40
29	16 A Crabtree 1 Lever 1 way switch complete with cover plate in weather proof box	No	14
<b><u>Electronic Timers</u></b>			
30	10 A CBI Electronic Time Switch. QAT-R-DM-(M or H)	No	4
<b><u>Socket Outlets</u></b>			
<u>Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.</u>			
Carried Forward			R
Section No. 4 Bill No. 2 Canteen House FACILITY MANAGEMENT			
202			





Repairs and Renovations  
Indwe Police Station

Brought Forward		
<u>Flush switched sockets type:</u>		
31	16 A 3-pin Crabtree double switch socket outlet installed on 2 tier power skirting	No 20
32	16A SA/Euro combined socket outlet	No 15
<u>Isolators</u>		
33	40 A Crabtree Isolator switch complete for airconditioning units and extractor fans	No 5
34	60 A Crabtree Isolator switch complete for stove	No 3
35	30 A Crabtree Isolator switch complete in weather proof box for geysers	No 3
<u>Light Fittings</u>		
<u>Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.</u>		
<u>Fittings to be equal and similar approved to the below quoted manufacture.</u>		
36	Ceiling/wall mounted fitting 15W LED bulk head, Type A	No 10
37	2 x 36W BEKA fluorescent open channel with electronic ballast and complete with cool white lamps	No 20
38	15W LED BEKA BULKHEAD SERIES 30 complete with LED lamps	No 45
39	2 X 26W BEKARONDO-H circular aluminium reflector downlights complete with lamps	No 20
<u>Equipment removal, stripping and cleaning</u>		
40	Equipment removal, stripping and cleaning	No 1

Carried Forward

Section No. 4  
Bill No. 2  
Canteen House  
FACILITY MANAGEMENT

203



Repairs and Renovations  
Indwe Police Station

Brought Forward		
41	Remove all redundant electrical wiring, luminaries, light switches and socket outlet after site handover	No 1
<b><u>Electrical Tests</u></b>		
<u>Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.</u>		
42	Building installation	Item
43	Commissioning and testing of all the parts of the installation	Item
44	Telephone	No 2
45	Data points	No 3
46	TV Socket	No 2
47	Labelling & Documentation	Item

Carried Forward to Summary of Section No. 4

Section No. 4  
Bill No. 2  
Canteen House  
FACILITY MANAGEMENT

204



Repairs and Renovations  
Indwe Police Station

Item No		Quantity	Rate	Amount
<b><u>DETECTIVE BLOCK</u></b>				
<b><u>Excavation and Trenching</u></b>				
<b><u>Internal Installation</u></b>				
<u>General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services</u>				
1	Excavation and backfilling in soft soil	m3	50	
2	Excavation and backfilling in hard rock	m3	25	
<b><u>Cable and Data Sleeves</u></b>				
<u>Supply and installation of PVC Sleeves through floor construction to power distribution board complete with standard radius sleeve bends</u>				
3	75mm Diameter for Data	m	50	
4	110mm Diameter for power cable	m	50	
<u>Radius bends:</u>				
5	75mm Diameter	No	6	
6	110mm Diameter	No	6	
<b><u>Draw Wires</u></b>				
7	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100	
<b><u>Distribution Boards</u></b>				
Carried Forward				R
Section No. 4 Bill No. 3 Detective House FACILITY MANAGEMENT				

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Repairs and Renovations  
Indwe Police Station

Brought Forward		
<u>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal</u>		
8	Supply and install DB - SUB 2	No 1
9	Supply and install DB - SUB 3	No 1
<b><u>Low Voltage PVC Cables</u></b>		
<u>Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches</u>		
10	16mm <sup>2</sup> 4 core PVC SWA Cable	m 70
11	10mm <sup>2</sup> 4 core PVC SWA Cable	m 100
12	16mm <sup>2</sup> BCEW	m 70
13	10mm <sup>2</sup> BCEW	m 100
<b><u>Terminations:</u></b>		
14	16mm <sup>2</sup> 2 core PVC SWA Cable	No 10
15	10mm <sup>2</sup> 2 core PVC SWA Cable	No 10
16	16mm <sup>2</sup> BCEW	No 10
17	10mm <sup>2</sup> BCEW	No 10

Carried Forward

Section No. 4  
Bill No. 3  
Detective House  
FACILITY MANAGEMENT

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Repairs and Renovations  
Indwe Police Station

Brought Forward		
<b><u>Conduit Work</u></b>		
<u>Supply, delivery and installation of SABS approved PVC Conduits completed with all required accessories.</u>		
<u>Built or Chase into brick or concrete work:</u>		
18	25mm PVC Conduit	m 1,800
19	25mm PVC Conduit	m 1,300
<u>In Ceiling space and Timber work:</u>		
20	20mm dia PVC	m 1,500
21	20mm dia PVC	m 1,000
<b><u>Conduit Boxes</u></b>		
<u>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.</u>		
22	20mm diameter 4 way type(round box)	No 30
<b><u>Wall Boxes</u></b>		
<u>Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.</u>		
<u>Flush mounted type:</u>		
23	100 x 50 x 50mm	No 14
24	100 x 100 x 50mm	No 18
25	Round PVC Box complete with cover plate	No 15

Carried Forward

Section No. 4  
Bill No. 3  
Detective House  
**FACILITY MANAGEMENT**

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Repairs and Renovations  
Indwe Police Station

Brought Forward		
<b><u>PVC Wiring</u></b>		
<b><u>PVC Wiring in conduits:</u></b>		
<b><u>2.5mm<sup>2</sup> for light circuits</u></b>		
26	2.5 mm <sup>2</sup> single core Cu. pvc cable, sheath colour: Red	m 1,800
27	2.5 mm <sup>2</sup> single core Cu. pvc cable, sheath colour: Black	m 1,800
28	2.5 mm <sup>2</sup> single core Cu. pvc cable, sheath colour: Yellow/Green	m 1,800
<b><u>4mm<sup>2</sup> for plug sockets circuits</u></b>		
29	4 mm <sup>2</sup> single core Cu. pvc cable, sheath colour: Red	m 1,500
30	4 mm <sup>2</sup> single core Cu. pvc cable, sheath colour: Black	m 1,500
31	4 mm <sup>2</sup> single core Cu. pvc cable, sheath colour: Yellow/Green	m 1,500
32	6 mm <sup>2</sup> for Air conditioning circuits	m 1,200
<b><u>Stranded Bare Copper Earth Wire</u></b>		
<b><u>Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.</u></b>		
33	1.5mm <sup>2</sup> Red	m 900
34	1.5mm <sup>2</sup> Black	m 900

Carried Forward

Section No. 4  
Bill No. 3  
Detective House  
**FACILITY MANAGEMENT**

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Repairs and Renovations  
Indwe Police Station

Brought Forward			R
35	1.5mm <sup>2</sup> Yellow/Green	m	900
36	2.5mm <sup>2</sup> Red	m	750
37	2.5mm <sup>2</sup> Black	m	750
38	2.5mm <sup>2</sup> Yellow/Green	m	750
39	4mm <sup>2</sup>	m	1,200
<b><u>LIGHT SWITCHES, SWITCHED SOCKET OUTLETS, ETC.</u></b>			
<u>Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification.</u>			
40	One Lever One Way switch Recessed mount	No	15
41	25 A isolator points	No	6
<b><u>Socket Outlets</u></b>			
<u>Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.</u>			
<u>Flush switched sockets type:</u>			
42	16A SA/Euro combined socket outlet	No	18
43	16 A 3-pin Crabtree double switch socket outlet installed on 2 tier power skirting	No	12
<b><u>Light Fittings</u></b>			
Carried Forward			R
Section No. 4 Bill No. 3 Detective House FACILITY MANAGEMENT			

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Repairs and Renovations  
Indwe Police Station

Brought Forward		
<u>Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.</u>		
<u>Fittings to be equal and similar approved to the below quoted manufacture.</u>		
44	Ceiling/wall mounted fitting 15W LED bulk head, Type A	No 40
45	2 x 36W BEKA fluorescent open channel with electronic ballast and complete with cool white lamps	No 12
46	15W LED BEKA BULKHEAD SERIES 30 complete with LED lamps	No 16
<b><u>Electrical Tests</u></b>		
<u>Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.</u>		
47	Telephone	No 20
48	Data points	No 20
49	Building installation	No 3
<b><u>Others</u></b>		
50	Labelling & Documentation	Item
Carried Forward to Summary of Section No. 4		
Section No. 4 Bill No. 3 Detective House FACILITY MANAGEMENT		
210		





Repairs and Renovations  
Indwe Police Station

Item No		Quantity	Rate	Amount
<b><u>LIGHTNING PROTECTION</u></b>				
<b><u>Internal Installation</u></b>				
<b><u>Supply and Install lighting protection according to SANS 10313 in conjunction with SANS62305-1 to prevent damage by lightning</u></b>				
1	Supply and Install 1,5m earth spike complete with clamps	No	36	
2	35mm <sup>2</sup> bare copper earth wire	m	500	
<b><u>Excavation and Trenching</u></b>				
3	Trenching through floor for sleeves	m3	20	
4	Excavation and backfilling in soft soil	m3	30	
5	Excavation and backfilling in hard rock	m3	18	
<b><u>Testing and Commissioning</u></b>				
6	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.	Item		
7	Other : Labeling & Documentation	Item		
Carried Forward to Summary of Section No. 4				R
Section No. 4				
Bill No. 4				
Lightning Protection				
FACILITY MANAGEMENT				

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Repairs and Renovations  
Indwe Police Station

Item No		Quantity	Rate	Amount
<b><u>PERIMETER LIGHTING</u></b>				
<b><u>Public Lighting</u></b>				
1	1 x 18W BEKASTAR - Standard version traditional post top complete with traditional wall bracket and CFL lamp.	No	50	
2	3m galvanised steel poles	No	50	
3	Excavation and backfilling in soft soil	m3	54	
4	Excavation and backfilling in hard rock	m3	36	
5	6mm <sup>2</sup> 4 core PVC SWA Cable	m	500	
6	4mm <sup>2</sup> BCEW	m	500	
<b><u>Terminations:</u></b>				
7	6mm <sup>2</sup> 4 core PVC SWA Cable	No	100	
8	4mm <sup>2</sup> BCEW	No	100	
9	Electrical Danger tape	m	10	
<b><u>Photocell</u></b>				
10	16A Photovoltaic (Day/Night) switch for exterior lighting	No	4	
11	Labeling & Documentation	Item		
Carried Forward to Summary of Section No. 4				R
Section No. 4				
Bill No. 5				
Perimeter Lightings				
FACILITY MANAGEMENT				

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Repairs and Renovations  
Indwe Police Station

Item No		Quantity	Rate	Amount
<b><u>SOLAR PV POWER</u></b>				
<b><u>Solar Panels</u></b>				
1	12kW Peak Pure Sinewave Hybrid Inverter 48V - 3 phase	No 4		
2	Jinko Solar Panel 470W Tiger Ribbon Mono	No 120		
3	5.12kWh Lithium Battery 48V	No 20		
4	Rack Battery Mount	No 20		
5	6mm <sup>2</sup> Wire 70A/1000V Red	m 500		
6	6mm <sup>2</sup> Wire 70A/1000V Black	m 500		
7	6mm Long Insulated Lug	No 50		
8	6mm Short Insulated Lug	No 50		
<b><u>Low Voltage PVC Cable</u></b>				
<b><u>Supply and installation of PVC SWA PVC cable and bare copper earth wire.</u></b>				
9	10mm <sup>2</sup> 4 core PVC SWA Cable	m 100		
10	6mm <sup>2</sup> BCEW	m 100		
<b><u>Terminations:</u></b>				
11	10mm <sup>2</sup> 4 core PVC SWA Cable	No 20		
12	6mm <sup>2</sup> BCEW	No 20		
<b><u>Electrical Tests</u></b>				
Carried Forward			R	
Section No. 4 Bill No. 6 Solar PV Power FACILITY MANAGEMENT				

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Repairs and Renovations  
Indwe Police Station

Brought Forward

R

Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.

13 Building installation

No

5

Other

14 Allowance for earthing and lightning protection

No

5

Installation and Commissioning

15 Provide manuals and technical literature for the system and its components

Item

16 Any additional items required for the successful completion of the above

Item

17 Labeling & Documentation

Item

Carried Forward to Summary of Section No. 4

R

Section No. 4

Bill No. 6

Solar PV Power

FACILITY MANAGEMENT

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Repairs and Renovations  
Indwe Police Station

**SECTION SUMMARY - Electrical Installation**

Bill No		Page No	Amount
1	Generator House	106	
2	Canteen House	112	
3	Detective House	118	
4	Lightning Protection	119	
5	Perimeter Lightings	120	
6	Solar PV Power	122	
Carried to Final Summary			R
Section No. 4 FACILITY MANAGEMENT			

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Repairs and Renovations  
Indwe Police Station

Item No		Quantity	Rate	Amount
<b><u>MECHANICAL INSTALLATION</u></b>				
<b><u>FIRE FIGHTING ELEMENTS</u></b>				
1	Supply and install 4.5 kg DCP fire extinguisher complete with charge, top and bottom hanging brackets and back plates.	No 2		
<b><u>HOT WATER SUPPLY CANTEEN BLOCK</u></b>				
2	Supply and install 100 litre, horizontal type hot water geyser, Including electrical termination, installation, and all accessories to ensure a fully functioning system as per relevant standards	No 1		
<b><u>HVAC: AIR CONDITIONING</u></b>				
3	Supply, install and commission 9000 BTU/HR inverter mid wall split air conditioning unit complete with brackets, fittings and piping. (For detective block)	No 5		
4	Supply, install, and commission 12000 BTU/HR inverter mid-wall split air conditioning unit complete with brackets, fittings and piping. (for detective block)	No 1		
5	Supply and install 2 x 12 000 mm 220 air curtains.	No 2		
6	Maintenance of air conditioning units for a year (2 x services with a 6 months interval).Also incl. (labour, materials/transport).	No 8		
<b><u>HVAC: VENTILATION FANS: DETECTIVE BLOCK</u></b>				
7	Supply, installation, testing, and commissioning of 30 W extractor fans or similar approved. The fan must have airflow of 76m3, 35dB(A), Duct size 100mm	No 2		
8	Supply, installation, testing, and commissioning of 41 W wall mounted extractor fan. The fan must have airflow of 76m3/h, 35dB(A), Duct Size 100mm	No 2		
Carried Forward			R	
Section No. 5 Bill No. 1 Mechanical Installation FACILITY MANAGEMENT				

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Repairs and Renovations  
Indwe Police Station

Brought Forward

**TESTING AND COMMISSIONING**

- 9 Testing and certification: Certification of Compliance (COC), with regards to all electrical reticulation, connections, wiring, equipment & commissioning of new air conditioning units

Item

R

Carried to Final Summary

R

Section No. 5  
Bill No. 1  
Mechanical Installation  
**FACILITY MANAGEMENT**

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Repairs and Renovations  
Indwe Police Station

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 2</u></b>			
<b><u>PROVISIONAL SUMS</u></b>			
<u>User note</u>			
<i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i>			
<i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i>			
<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i>			
<u>General</u>			
Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building agreement contract and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances			
Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned			
Provisional sums are for material and equipment supplied and installed complete by firms of specialists			
Carried Forward		R	
Section No. 6 Bill No. 1 Provisional Sums <b>FACILITY MANAGEMENT</b>			

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Repairs and Renovations  
Indwe Police Station

Brought Forward

R

Profit

Where stated, the contractor may allow for profit if required

User note

*Refer hereunder to "nominated subcontractors" or "selected subcontractors" or both as the case may be and in accordance with the relevant building agreement (building contract)*

*Where "attendance" is defined in the relevant subcontract agreement/subcontract, the user is to refer thereto and is to ensure that the designations therein are used. Where "attendance" is not defined in the relevant subcontract agreement/subcontract, the user is to provide a detailed description of the "attendance" required from the contractor*

General attendance on nominated/selected subcontractors

User note

*Use the following descriptions where the JBCC N/S Subcontract Agreement is applicable*

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 contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement

Carried Forward

R

Section No. 6  
Bill No. 1  
Provisional Sums  
**FACILITY MANAGEMENT**

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Repairs and Renovations  
Indwe Police Station

Brought Forward		R
<u>Special attendance on nominated/selected subcontractors</u>		
Where "special attendance" such as unloading, storing, placing in position, providing special power supplies, specific hoisting, crange and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements		
<u>Builder's work</u>		
Builder's work in connection with specialist services is given elsewhere in these bills of quantities		
<b><u>PROVISIONAL SUMS</u></b>		
<b><u>BUILT-IN CUPBOARD</u></b>		
1	Provide the sum of R55,000.00 (Fifty Five Thousand Rands) for built-in cupboard	Item 55,000.00
2	Profit	%
3	General attendance	%
<b><u>GARDEN BENCH</u></b>		
4	Provide the sum of R48,500.00 (Forty Eight Thousand Five Hundred Rands) for seating garden benches	Item 48,500.00
5	Profit	%
6	General attendance	%
<b><u>SHELVES</u></b>		
7	Provide the sum of R100,000.00 (One Hundred Thousand Rands) for the storage shelves	Item 100,000.00
Carried Forward		R
Section No. 6 Bill No. 1 Provisional Sums <b>FACILITY MANAGEMENT</b>		

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**APPOINTMENT OF CONTRACTOR FOR COMPLETION OF REPAIRS  
AND RENOVATIONS AT INDWE POLICE STATION IN EASTERN CAPE  
PROVINCE**

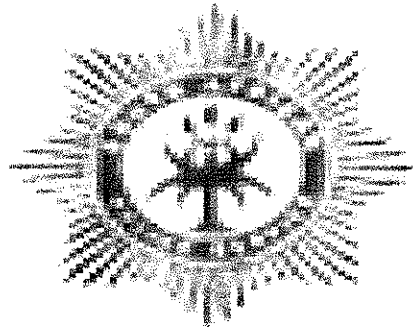
**BID: 19/1/9/1/13TB(23)**

**PART C**

**CONTRACT**

**PART C 3**

**OCCUPATIONAL HEALTH AND SAFETY**



# **HEALTH AND SAFETY SPECIFICATION**

**FOR**

**NEW POLICE STATIONS AND MAINTENANCE OF BUILDINGS**

**MANAGED ON BEHALF OF**

**SOUTH AFRICAN POLICE SERVICE**

**Revision 1**

**1. PURPOSE**

This document describes the procedure that Principal Contractor and Contractors or suppliers of professional services (consultants) have to comply with before they are allowed to work on any SAPS premises.

**2. SCOPE**

This Specification applies to all SAPS principal contractors and suppliers of professional services to take note of the requirements and ensure they budget for stipulated safety requirements.

**3. REFERENCE DOCUMENTS**

The Occupational Health and Safety Act 85 of 1993 and its regulations.

**4. DEFINITIONS****5. ROLES AND RESPONSIBILITIES****SHE MANAGEMENT**

- Ensure the procedure for evaluation of contractors is established, implemented and maintained.
- Report to Section Head: Programme and Project Management on the safety performance of contractors.
- Investigate all section 24 incidents.
- Stop any activity which may cause injury to employees and visitors.

**PROJECT MANAGER**

- Prepare contractor agreement {37(2)} and ensure it is signed.
- Prepare and issue letter of award
- Ensure compliance with Occupational Health and Safety Act, 85 of 1993
- Report on contractors SHE compliance.
- Obtain contractor SHE plan before commencement of work.
- Ensure all safety and legal appointments are issued.
- All contractor employees and Visitors must be inducted before they are allowed on site.
- The contractor employees shall have a valid medical certificate of fitness specific to the construction work being performed.

**6. No contractor will be allowed on site until the following documents are in place:**

- Valid proof of letter of good standing

- Health and Safety plan
- Risk Assessments
- Medical Certificate of fitness
- Appointments
- Registers
- Training Certificates and CV

## 7. SHE REQUIREMENTS

The level of SHE requirements is dependent on:

- Scope of work
- Construction Regulation , 2014 {3(1) and (4)}

## 8. PROJECT SPECIFICATIONS

### 8.1 Health and Safety Plan

- The Principal Contractor must ensure that the Health and Safety Plan is drafted and submitted to SHE Management, before the contractor is allowed on site. The Plan must be based on the client's documented health and safety specification that is not generic but site specific.

### 8.2 Appointments

ITEM	REGULATION	APPOINTMENT
1	5(1)(k)	Principal Contractor appointment
2	7(1)(v)	Contractor appointment
3	8 (1)	Construction Manager (Full time competent person) one site only
4	8(2)	Assistant Construction Managers for different sections
5	8(5)	Registered Construction Health and safety officer
6	8(7)	Construction Supervisor
7	8(8)	Assistant Construction Supervisor
8	9(1)	Competent Risk assessor
9	10(1)	Competent Fall Protection planner
10	12(1)	Temporary works designer
11	12(2)	Supervisor of Temporary works



12	12(3)(f)	Competent Temporary works inspector
13	13(1)(a)	Competent Excavation supervisor
14	14(1)	Competent Demolition supervisor
15	16(1)	Competent Scaffold supervisor
16	17(1)	Competent Suspended platform supervisor
17	18(1)(a)	Competent Rope Access Work supervisor
18	19(8)(a)	Competent Material hoists inspector
19	20(1)	Competent Bulk mixing plant supervisor
20	21(2)(b)	Competent examiner of Explosive actuated fastening device
21	21(2)(i)	Issuer and collector of Explosive actuated fastening device cartridges
22	23 (a)	Competent Tower crane supervisor
23	23(1)(d)	Competent Construction and mobile plant operator
24	24(c )	Competent Temporary Electrical installation controller
25	28(a)	Competent Stacking and Storage supervisor

## OTHER APPOINTMENTS

ITEM	SECTION	APPOINTMENT
1	16(1)	CEO
2	16(2)	Assistant CEO
3	17	Health and safety representatives
4	19	Health and Safety committee members
5	37(2)	Mandatory agreement
6	GAR 9(2)	Incident investigator
7	GSR 3	Competent First aider
8	GSR 5(1)	Competent Confined space inspector

9	DMR 18(5)(a)	Lifting machine inspector
10	DMR 18(5)(a)	Lifting machine entity
11	GMR 2	Supervisor of machinery

### 8.3 Site Management

- The Principal Contractor shall appoint competent person as the construction manager.
- No work may commence without the construction manager being present on site
- The construction manager must appoint the construction supervisors responsible for construction activities and ensuring occupational health and safety compliance on the construction site.
- The Principal Contractor must comply with all the sub regulations stipulated in CR 8.

### 8.4 Safety Meetings

- Monthly Safety meeting must be held on site and minutes must be made available for inspection.
- The meeting must consist of the construction manager, Safety representatives and other technical members that are present on site.

### 8.5 Personal Protective Equipment

All employees working on SAPS sites must wear the following

- Overall
- Hard hat
- Steel toe cap boots
- Steel toe cap gumboots if working in water environment or concrete
- Suitable safety goggles for the activity performed
- Ear plugs
- Ear Muffs, depending on noise level
- Respirator or Dust mask
- PVC gloves
- Pig skin or leather gloves
- Apron ( welding and grinding)
- Welding Helmet
- Long welding gloves

- Spats

#### 8.6 Induction

- Before any person is allowed on site, induction training must be conducted on both employees and visitors.
- Attendance list must be kept on file for all members who have attended induction

#### 8.7 Medical Examinations

- The contractor employees shall have a valid medical certificate of fitness specific to the construction work being performed.
- The contractor shall ensure systems are in place to assist employees with medical conditions that are not work related.
- The contractor must ensure that exit medicals are conducted when the project is completed, Employee is dismissed or retrenched.

#### 8.8 Risk Assessment

- Risk assessments must be conducted by a competent person for each activity and must be handed in to the SAPS SHE Management before the start of the work. The risk assessment must be approved by the 16(2) appointee, risk assessor, SHE Management and the Project Manager.
- SHE Management must provide contractors with at least a baseline risk assessment for all activities.

The risk assessment must at least address the following:

- Name of activity.
- What can go wrong?
- What will the impact be (e.g. hand injuries, hearing loss).
- How will you control the risk (e.g. machine guard will be in place supervisor will monitor). See CR 9 for reference.

The risk assessment must also have a schedule attached of:

- When you plan to monitor if the risk assessment is applicable to an activity.
- And when you plan to revise the plan (compulsory three monthly or after an incident or if the work conditions have changed).

### 8.9 Safety Representatives and Safety Committees

- Principal Contractor must appoint at least 1 safety representative for every 20 employees.
- Safety representative must be trained by an accredited training provider and proof kept in the safety file.
- Safety committee meetings will be held on a monthly basis.
- Health and Safety representatives' monthly report must be discussed during this meeting.
- Inspection Report must be submitted to the Project Manager.

### 8.10 Vehicles/Transportation ( CR 23)

- All vehicles driven on SAPS premises must be in a roadworthy condition.
- Drivers must be in possession of a valid driver's licence.
- No passengers are allowed at the back of the utilities.
- Transport only the amount of people as mentioned on the licence disk.
- Vehicles must have seatbelts and must be worn at all times.
- All plant (tlb, excavators, etc.) must be equipped with a reverse hooter. All vehicles must have a fire extinguisher and a first aid box. All tools and equipment must be properly secured. No vehicle must be left with the engine running or the keys in the ignition.

### 8.11 Construction Facilities

The Contractor must provide clean, hygienic and well maintained facilities such as:

- One shower facility for every 15 persons
- One sanitary facility for each gender and for every 30 workers
- Changing facilities for each gender
- Sheltered eating areas
- Suitable living accommodation for workers who are far from their homes.

### 8.12 Drinking water

- Contractors must ensure fresh drinking water is available at the site.
- There must be at least 5 litres of drinking water available per person per day.
- Containers used for water must be clearly marked.
- Containers used for water must be kept cleaned at all times.

### 8.13 Smoking areas

- The contractor must designate smoking areas in accordance with the Tobacco Control Act.

- The applicable warning notices must also be displayed at the designated smoking area.

#### 8.14 Excavations

- A competent supervisor must be appointed as an excavation supervisor.
- All excavations must be properly barricaded with barrier netting (barrier tape is not accepted).
- Barrier netting must be maintained on a daily basis.
- Excavations must be inspected by the competent person before persons are allowed to work in the excavation.
- Excavation inspection register must be completed daily.
- Signs must be displayed warning people of danger.
- Soil must be stacked at least 1m from the edge of any excavation.
- Ensures compliance with construction regulation 13.

#### 8.15 Contingency planning

- Contractors must submit their contingency plan to SHE management within one month of the start of a project.

The plan must identify at least the following:

- Name the type of emergencies (e.g. scaffold or building collapse).
- What is the procedure's that must be followed in case of an emergency?
- Who is responsible to take action?
- What type of alarm system will be used?

The plan must also consist of a;

- Evacuation plan (Indicate assembly points, fire extinguishers, first aid box etc.)
- Emergency numbers must be displayed in every office (Ambulance provincial and private, hospitals provincial and private, Department of Labour, Municipality, Eskom etc.).
- Evacuation plan must be tested at least every 6 months and record must be kept on file.
- Evacuation plans must be displayed on notice boards and other places as may be required.

#### 8.16 First Aid

- A qualified first aider must be appointed for each construction site. The ratio of 1 first aider for every 50 employees must be maintained.
- A first aid box must be available where five or more employees are working.
- The first aid box must be fully stocked in compliance with the OHS Act. relevant signs to indicate location of first aid boxes must be in place.
- First aid boxes must be kept locked.
- Dressing registers must be completed.

#### 8.17 Incidents

- SHE Management and the SAPS Project Manager must immediately be notified of all incidents, near misses, first aid cases in his area of jurisdiction.
- An incident notification form (Annexure 1) must be completed and sent to SHE Management.
- All Section 24 incidents must be reported to the Department of Labour immediately.
- SHE management have to ensure that all incidents are investigated and preventative measures are implemented.
- The SHE Management commander will then decide whether it is necessary to appoint a board of inquiry from the National office or not.

#### 8.18 Housekeeping and general safeguarding on construction sites

- Material and equipment must comply with the OHS Act-General Safety Regulation 8 and Construction Regulation 27 and 28.
- Stores and yard must always look neat and safe.
- Same items must be stored together.
- Oil and chemicals must be stored in a bunded wall able to handle 110% of the capacity of the specific product.

#### 8.19 Waste management ( NEMA-Waste Act)

- Waste should be managed in compliance with NEMA (Waste Act 59 OF 2008) with regards to their types/classifications and licencing of service providers.
- Waste generated on site must be stored in waste bins fully covered with lids or netting.
- Waste must be separated according to general waste, hazardous waste, steel or building rubble.
- In conjunction with the Provincial SHE co-ordinator a specific area must be demarcated and barricaded where waste can be stored.

#### 8.20 Scaffolding/Working at heights

- The Contractor must comply with construction regulations 10,11,12,16 and 17.
- All people working on heights must be in possession of a valid medical certificate.
- Contractors have to submit a fall protection plan before they start working on heights.
- When work is performed from a height of 1.8m double lanyard safety harness must be worn.
- All opening must be properly barricaded to prevent people from falling.

#### 8.21 Flammable storage

- All flammable material must be stored in a well-ventilated area.
- All oxygen, acetylene and LPG cylinders must be stored in fenced and shaded area.
- Oxygen, acetylene and LPG gas cylinders must be stored separately in an upright position.
- The storage should be marked clearly full or empty.
- Cylinder not in storage facility must be in a trolley, properly secured and with a 9kg dry powder fire extinguisher.
- An alphabetical list of all chemicals must be kept on site.
- Material Safety Data sheets must be available and proof of training must be available.
- Symbolic safety signs must be displayed.
- The quantity of flammable material that can be stored must also be displayed.
- Sufficient serviceable fire extinguishers must be available.
- The local fire brigade must inspect the area to confirm that it comply with local municipality bylaws.
- No flammable material must be stored in closed proximity of flammable store.
- No welding or grinding to take place within 10m of flammable store.
- Permit must be obtained to store fuel in excess of the legal limit.

#### 8.22 Safety Officer

- The contractor's health and safety officer is responsible to assist the 16(2) appointee with Legal compliance. Where a contractor is busy performing building work a safety officer will be appointed in the following ratio 49 or less people on site - Part time safety officer spending 2 full days per week on site. Scope of work included.
- 50 people on site and up to and including 300 people – Full time Safety Officer.

- The safety officer must be registered as the construction health and safety officer (CHSO) with the South African Council for the Project and Construction Management Professions (SACPCMP).

#### 8.23 Audit

- SHE audits must be conducted by the contractor on a monthly basis and the results must be kept on file.
- Monthly inspections will be conducted by SHE Management on each project.
- During SAPS Legal compliance audits 100% must be achieved.

#### 8.24 Lockout

- Red tag must be placed on door indicating lockout in place.
- Safety representative must be notified before electrician performs electrical work.
- Electrician to ensure locks are in place before work is performed on any electrical equipment.

#### 8.25 Intoxication

- The contractor must ensure that personnel under his control and authority are not under the influence of any alcohol or drugs other than for prescribed medication.

#### 8.26 Electricity

- All electrical installations must be carried out by an appointed and qualified electrician registered with the Department of Labour.
- The contractor must ensure he is issued with a certificate of compliance.
- All electrical equipment must be numbered.
- Monthly inspection is conducted on all electrical installations.



Abbreviations

SHE: Safety, Health, Environment

CR: Construction Regulations

SAPS: South African Police Service

NEMA: National Environmental Management Act

APPROVED/ NOT APPROVED

R.S. PILLAY  
MAJOR GENERAL

MAJOR GENERAL

ACTING DIVISIONAL COMMISSIONER: SUPPLY CHAIN MANGEMENT

RS PILLAY

DATE:

2016/11/26

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# HEALTH & SAFETY SPECIFICATION

FOR

CAPITAL WORKS AND PLANNED MAINTENANCE  
PROJECTS

MANAGED ON BEHALF OF

SOUTH AFRICAN POLICE SERVICE

(THE "CLIENT")

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1. PREAMBLE

In terms of Construction Regulation 5(1) (b) of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), South African Police Service, as the Client must prepare a suitable, documented and coherent site specific health and safety specification for the intended construction work based on the baseline risk assessment.

The Client's further duties are as described in The Act and the Regulations made there-under. The Principal Contractor shall be responsible for the Health & Safety Policy for the site in terms of Section 7 of the Act and in line with Construction Regulation 7 as well as the Health and Safety Plan for the project.

This 'Health and Safety Specifications' document is governed by the 'Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), hereinafter referred to as 'The Act'. Notwithstanding this, cognizance should be taken of the fact that no single Act or its set of Regulations can be read in isolation. Furthermore, although the definition of Health and Safety Specifications stipulates 'a documented specification of all health and safety requirements pertaining to associated works on a construction site, so as to ensure the health and safety of persons', it is required that the entire scope of the Labour legislation, including the Basic Conditions of Employment Act be considered as part of the legal compliance system. With reference to this specification document this requirement is limited to all health, safety and environmental issues pertaining to the site of the project as referred to here-in. Despite the foregoing it is reiterated that environmental management shall receive due attention.

Due to the wide scope and definition of construction work, every construction activity and site will be different, and circumstances and conditions may change even on a daily basis. Therefore, due caution is to be taken by the Principal Contractor when drafting the Health and Safety Plan based on these Health and Safety Specifications. Prior to drafting the Health and Safety Plan, and in consideration of the information contained here-in, the contractor shall set up a Risk Assessment Program to identify and determine the scope and details of any risk associated with any hazard at the construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard. This Risk

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*Assessment and the steps identified will be the basis or point of departure for the Health and Safety Plan.*

The South African Police Service is tasked to provide accommodation and operational facilities to a very large proportion of its members. A very large number of State employees and public users of the facilities and the services provided there-in directly interacts with the facilities provided by the well-being, health and safety of a great number of people. This Department thus has directly or indirectly, an impact on the Republic of South Africa as well as the National Parliament.

In this a high premium is to be placed on the health and safety of the most valuable assets of the South African Police Service. These are its personnel, the personnel of its Clients and the physical assets of which it is the custodian and may also include the public as well. The responsibilities the Department and relevant stakeholders have toward its employees and other people present in the facilities or on the sites are captured further in this specification document. These responsibilities stem from both moral, civil and a variety of legal obligations. The Principal Contractor is to take due cognizance of the above statement.

Every effort has been made to ensure that this specification document is accurate and adequate in all respects. Should it however, contain any errors or omissions they may not be considered as grounds for claims under the contract for additional reimbursement or extension of time, or relieve the Principal Contractor from his responsibilities and accountability in respect of the project to which this specification document pertains. Any such inaccuracies, inconsistencies and/or inadequacies must immediately be brought to the attention of the Agent and/or Client.

## 2. SCOPE OF HEALTH AND SAFETY SPECIFICATION DOCUMENT

These Specifications should be read in conjunction with the Act, the Construction Regulations and all other Regulations and Safety Standards which were or will be promulgated under the Act or incorporated into the Act and be in force or come into force during the effective duration of the project. The stipulations in this specification, as well as those contained in all other documentation pertaining to the project, including contract

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documentation and technical specifications shall not be interpreted, in any way whatsoever, to countermand or nullify any stipulation of the Act, Regulations and Safety Standards which are promulgated under, or incorporated into the Act.

### 3. PURPOSE

The South African Police Service is obligated to implement measures to ensure the health and safety of all people and properties affected under its custodianship or contractual commitments, and is further obligated to monitor that these measures are structured and applied according to the requirements of these Health and Safety Specifications.

The purpose of this specification document is to provide the relevant Principal Contractor (and his /her contractor) with any information other than the standard conditions pertaining to construction sites which might affect the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; and to protect persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work during the carrying out of construction work for the South African Police Service. The Principal Contractor (and his /her contractor) is to be briefed on the significant health and safety aspects of the project and to be provided with information and requirements on inter alia:

- a) Safety considerations affecting the site of the project and its environment;
- b) Health and safety aspects of the associated structures and equipment;
- c) submissions on health and safety matters required from the Principal Contractor (and his /her contractor); and
- d) the Principal Contractor's (and his /her contractor) health & safety plan.

To serve to ensure that the Principal Contractor (and his /her contractor) is fully aware of what is expected from him/her with regard to the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and the Regulations made there-under including the applicable safety standards, and in particular in terms of Section 6, 7 and 8 of the construction regulation (2014).

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- (a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;
- (b) the installation, erection, dismantling or maintenance of a fixed plant where such work includes the risk of a person falling;
- (c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or
- (d) the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work;

**Construction Work Permit** – means a document issued by the Provincial Director of Department of Labour

**"Contractor"** – means an employer, as defined in Section 1 of the Act, who performs construction work and includes Principal Contractors.

**"Contract Amount"** Financial value of the contract at the time of the award of the contract, exclusive of all allowance and any value added tax or sales tax which the law requires the employer to pay to the contractor.

**"Practical Completion Certificates"** A certificates issued in terms of a contract by the employer, signifying that the whole of the construction works have reached a state of readiness for occupation or use for the purposes intended, although some minor work may be outstanding.

**"Accident"** – means unplanned occurrence that happens due to the unsafe condition and may cause injury to a person, damage to the property, material, plant, equipment and the environment;

**"Hazard"** – means anything including work activities and practices with the potential to cause harm;

**"Risk"** – means the likelihood that harm will occur and the subsequent consequences.

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To inform the Principal Contractor that the Occupational Health and Safety Act, 1993 (Act 85 of 1993) in its entirety shall apply to the contract to which this specification document applies. The Construction Regulations promulgated on 07 February 2014.

### 4. DEFINITIONS - The most important definitions in the Act and Regulations pertaining to this specification document are hereby extracted.

**"Purpose of the Act"** – To provide for the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work; to establish an advisory council for occupational health and safety; and to provide for matters connected therewith.

**"Health & Safety Specification"** – means a document that includes information required under the construction regulation and obtained from the clients & designers during the early planning & design stage for a specific project on a specific site for use by the contractors when preparing their tenders or bids to clients.

**"Health & Safety Plan"** – means a site, activity or project documented plan in accordance with the clients health and safety specification

**"Agent"** – means any person who acts as a representative for a client;

**"Client"** – means any person for whom construction work is performed;

**"Construction Health & Safety Agent (SACPCMP)"** – The person or entity appointed by the client through the Agent and who has a full authority and obligation to act on the clients behalf in terms of the construction regulations;

**"Construction Work"** is defined as any work in connection with –

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**"Risk assessment"** – means a process to determine any risk associated with any hazard at a construction site in order to identify the steps needed to be taken to mitigate, reduce or control such hazards.

**Health and Safety File"** – means a file, or other record containing the information in writing required by Construction Regulations.

### 5. OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

#### 5.1 Structure and Organization of OH&S Responsibilities

##### 5.1.1. Overall Supervision and Responsibility for OH&S

- a) The Client and/or its Agent on its behalf to ensure that the Principal Contractor, appointed in terms of Construction Regulation 5(1)(k), implements and maintains the agreed and approved H&S Plan. Failure on the part of the Client or Agent to comply with this requirement will not relieve the Principal Contractor from any one or more of his/her duties under the Act and Regulations.
- b) The Chief Executive Officer of the Principal Contractor in terms of Section 16 (1) of the Act to ensure that the Employer (as defined in the Act) complies with the Act. The pro forma Legal Compliance Audit may be used for this purpose by the Principal Contractor or his/her appointed contractor.
- c) All OH&S Act (85 /1993), Section 16 (2) appointee/s as detailed in his/her/their respective appointment forms to regularly, in writing, report to their principals on matters of health and safety per routine and ad hoc inspections and on any deviations as soon as observed, regardless of whether the observation was made during any routine or ad hoc inspection and to ensure that the reports are made available to the principal Contractor to become part of site records (Health & Safety File).
- d) The Construction Supervisor and Assistant Construction Supervisor/s appointed in terms of Construction Regulation 8 to regularly, in writing, report to their principals on matters of health and safety per routine and ad hoc inspections and on any

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deviations as soon as observed, regardless of whether the observation was made during any routine or ad hoc inspection and to ensure that the reports are made available to the principal Contractor to become part of site records (Health & Safety File).

- e) All Health and Safety Representatives (SHE-Reps) shall act and report as per Section 18 of the Act.

#### 5.1.2 Required appointments as per the Construction Regulations:-

Item	Regulation	Appointment	Responsible Person
1.	3.	Application Construction work permit	Client
2.	5(1)(k)	Principal contractor for each phase or project	Client
3.	5(6)	Construction Health & Safety Agent	Client
4.	7.(1)(c)	Contractor	Principal Contractor
5.	7(3)	Contractor	Contractor
6.	8(1)	Construction manager	Contractor
7.	8(2)	Assistance Construction manager	Contractor
8.	8(5)	Construction Safety Officer	Contractor
9.	8(7)	Construction Supervisor	Contractor
10.	8(8)	Responsible employee	Contractor
11.	9(1)	Competent risk assessor	Contractor
12.	10(1)	Fall protection planner	Contractor
13.	12(1)	Temporal work designer	Contractor
14.	12(2)	Supervisor of temporal work operation	Contractor
15.	12(3)(F)	Competent temporary works inspector	Contractor
16.	13(1)(a)	Excavation supervisor	Contractor
17.	13(2)(k)	Competent person in the use of explosive for excavations	Contractor
18.	14(1)	Competent demolition supervisor	Contractor
19.	14(11)	Explosives expert	Contractor
20.	16(1)	Scaffold supervisor	Contractor
21.	17(1)	Suspended platform supervisor	Contractor
22.	18(1)a	Rope access Supervisor	Contractor

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23.	19(6)(a)	Material hoist inspector	Contractor
24.	20(1)	Bulk mixing plant supervisor	Contractor
25.	21(2)(b)	Explosive actuated fastening device inspector	Contractor
26.	21(2)(g)	Explosive actuated fastening device cartridge, nails and studs: issuer & collector	Contractor
27.	23 (1)	Operator : construction vehicle and mobile plant	Contractor
28.	28 (a)	Stacking and storage supervisor	Contractor
29.	29 (h)	Fire equipment inspector	Contractor
OTHER APPOINTMENTS			
ACT /REGULATION		APPOINTMENT	
1	16(1)	CEO	
2	16(2)	Deputy CEO	
3	17	Health and safety representatives	
4	19	Health and Safety committee members	
5	37(2)	Mandatory agreement	
6	GAR 9(2)	Incident investigator	
7	GSR 3	Competent First aider	
8	GSR 5(1)	Competent Confined space inspector	
9	DMR 18(5)(a)	Lifting machine inspector	
10	DMR 18(5)(a)	Lifting machine entity	
11	GMR 2	Supervisor of machinery	

#### 5.2 Communication, Participation & Consultation

5.2.1 Occupational Health & Safety matters/issues shall be communicated between the Employer, the Principal Contractor, the other Contractors, the Designer and other concerned parties shall be through the H&S Committee or other means determined by the client.

5.2.2 In addition to the above, communication may be directly to the Client or his appointed Agent, verbally or in writing, as and when the need arises.

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5.2.3 Consultation with the workforce on OH&S matters will be through their Supervisors and H&S Representatives ('SHE – Reps')

5.2.4 The Principal Contractor will be responsible for the dissemination of all relevant OH&S information to the other Contractors e.g. design changes agreed with the Client and/or its Agent on its behalf and the Designer, instructions by the Client and/or his/her agent, exchange of information between Contractors, the reporting of hazardous/dangerous conditions/situations etc.

#### 6. INTERPRETATION

- a) The Occupational Health and Safety Act and all its Regulations, with the exception of the Construction Regulations, distinguish between the roles, responsibilities and functions of employers and employees respectively. It views consultants and contractors as employees of the "owner" of a construction or operational project, the "owner" being regarded as the employer.
- b) (The position taken by the Construction Regulations is that the "owner", in terms of its instructions, operates (has to operate) in the role of client as per relevant definition. The contractors working for the "client" are seen to be in two categories, i.e. the Principal Contractor and Contractors.
- c) The Principal Contractor has to take full responsibility for the health and safety on the site of the relevant project / contract. This includes monitoring health and safety conditions and overseeing administrative measures required by the Construction Regulations from all contractors on the project site.

#### 7. RESPONSIBILITIES

##### 7.1 Client

- a) The Client or his appointed Agent on his behalf will appoint each Principal Contractor for this project or phase/section of the project in writing for assuming the role of Principal Contractor as intended by the Construction Regulations.

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b) The Client or his appointed Agent on his behalf shall discuss and negotiate with the Principal Contractor the contents of the health and safety plan of the both Principal Contractor and Contractor for approval.

c) The Client or his appointed Agent on his behalf will take reasonable steps to ensure that the health and safety plan of both the Principal Contractor and Contractor is implemented and maintained. The steps taken will include periodic audits at intervals of at least once every month.

d) The Client or his appointed Agent on his behalf, will prevent the Principal Contractor and/or the Contractor from commencing or continuing with construction work should the Principal Contractor and/or the Contractor at any stage in the execution of the works be found to:

- have failed to have complied with any of the administrative measures required by the Construction Regulations in preparation for the construction project or any physical preparations necessary in terms of the Act;
- have failed to implement or maintain their health and safety plan;
- have executed construction work which is not in accordance with their health and safety plan; or
- act in any way which may pose a threat to the health and safety of any person(s) present on the site of the works or in its vicinity, irrespective of him/them being employed or legitimately on the site of the works or in its vicinity.

#### 7.2 Principal Contractor

- a) The Principal Contractor shall accept the appointment under the terms and Conditions of Contract. The Principal Contractor shall sign and agree to those terms and conditions and shall, before commencing work, notify the Department of Labour of the intended construction. Annexure 2 of this construction regulation contains a "Notification of Construction Work" form. The Principal Contractor shall submit the notification in writing prior to commencement of work and inform the Client or his Agent accordingly.

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- b) The Principal Contractor shall ensure that he is fully conversant with the requirements of this Specification and all relevant health and safety legislation.
- c) The Principal Contractor will in no manner or means be absolved from the responsibility to comply with all applicable sections of the Act, the Construction Regulations or any Regulations proclaimed under the Act or which may be applicable to this contract.
- d) The Principal Contractor shall provide and demonstrate to the Client a suitable and sufficiently documented health and safety plan based on this Specification, the Act and the Construction Regulations, which shall be applied from the date of commencement of and for the duration of execution of the works. This plan shall, as appendices, include the health and safety plans of all Sub-contractors for which he has to take responsibility in terms of this contract.
- e) The Principal Contractor shall provide proof of his registration and good standing with the Compensation Fund or with a licensed compensation insurer prior to commencement with the works.
- f) The Potential Principal Contractor shall, in submitting his tender, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations. (Note: This shall have to be contained in the conditions of tender upon which a tenderer's offer is based.)
- g) The Principal Contractor shall consistently demonstrate his competence and the adequacy of his resources to perform the duties imposed on the Principal Contractor in terms of this Specification, the Act and the Construction Regulations.
- h) The Principal Contractor shall ensure that a copy of his health and safety plan is available on site and is presented upon request to the Client, an Inspector, Employee or Sub-contractor.
- i) The Principal Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of this Specification, the Act

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- c) H&S responsibilities: Prior to accepting the H&S agent appointment from clients, H&S agents need to ensure that they brief clients fully on the client's particular responsibilities in terms of the OH&SA of 1993 and Construction Regulations as amended from time to time. In the absence of acceptance by clients of these responsibilities, H&S agents will not be able to adequately meet their own H&S responsibilities and duties.
- d) H&S information: H&S agents must provide the designer or design team with all H&S information to enable them to conduct a design HIRA to identify the significant hazards that need to be included in the H&S specification. This information may be gathered from multiple sources such as, for example, discussion with the client, previous historical use of the site or facility, previous surveys and investigations and past H&S files.

## 8. SCOPE OF WORK

These specifications are applicable to the specific scope of work pertaining to the above-mentioned project as detailed in the tender documents.

Construction Regulation 5(1)(g) determines that potential contractors submitting tenders have made adequate provision for the cost of health and safety measures during the construction process. The Principal Contractor shall on tendering make provision for the cost of health and safety measures in terms of his/her documented Health and Safety Plan and measures based on these Health and Safety Specifications during the period of the project. The cost shall be duly quantified and clearly identified for such identifiable purpose.

## 9. PREPARING A HEALTH & SAFETY PLAN

- (a) The level of detail required for a H&S plan will depend on how complex the workplace is (in particular, the number of contractors at the workplace at any one time) and the risks involved in the work. The plan must be easily accessible in a construction site and it must be clearly understood by management, supervisors & workers on construction site.

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and the Construction Regulations, is opened and kept on site and made available to the Client or Inspector upon request. Upon completion of the works, the Principal Contractor shall hand over a consolidated health and safety file to the Client.

- j) The Principal Contractor shall, throughout execution of the contract, ensure that all conditions imposed on his Sub-contractors in terms of the Act and the Construction Regulations are complied with as if they were the Principal Contractor.
- k) The Principal Contractor shall from time to time evaluate the relevance of the Health and Safety Plan and revise the same as required, following which revised plan shall be submitted to the Client and/or his/her Agent for approval.

## 7.3 Contractor

The contractor must demonstrate to the Principal Contractor that he has the Necessary competencies and resources to perform the construction work safely.

## 7.4 Construction Health & Safety Agent (SACPCMP)

The construction Health & Safety Agent act as a link between the client, Principal Contractor and the project team members with respect to health & Safety. They are Required to ensure that the client carry out its H&S responsibilities in terms of Legislation as well as to co-ordinate and ensure good H&S practices are maintained Throughout the duration of the project. In many cases this role starts from project Initiation to project close-out.

- a) H&S competences: In the event that the client is unable to satisfy the requirements of the Construction Regulations for whatever reasons, the construction H&S agent may be appointed to perform these functions on behalf of the client. Given the need to appoint a registered construction H&S agent that is competent and adequately resourced with respect to H&S matters.
- b) H&S goals: It is important that the construction H&S agents demonstrate clearly to clients how they are going to contribute to the achievement of any client H&S goals and objectives. They should also set their own H&S goals.

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- (b) The plan must be implemented, maintained and kept up to date during the construction of the project.

- (c) The principal contractor should prepare a H&S plan that includes

- project information;
- client requirements for H&S management on the project; Environmental restrictions and existing on-site risks arrangements, imposed by others or developed by the principal contractor, to control significant site H&S risks; H&S file & project H&S review.

- (d) The H&S plan should include the following information:

- details of the client, that is the person commissioning the construction work, for example their name, representative and contact details;
- details of the principal contractor;
- details of the construction project, for example address of the workplace, anticipated start and end date and a brief description of the type of construction work that the H&S plan will cover;
- details on how subcontractors will be managed and monitored, including how the principal contractor intends to implement and ensure compliance with the H&S plan such as checking on the performance of subcontractors and how non-compliance will be handled; and
- details on how the risks associated with falls, falling objects, moving plant, electrical work and all high risk construction work that will take place on a construction project will be managed.

- (e) The H&S plan should also include information on:

- the provision and maintenance of a hazardous chemicals register, safety data sheets and hazardous chemicals storage;
- the safe use and storage of plant;
- the development of a construction project traffic management plan;
- obtaining and providing essential services information – electrical, gas, telecom, water and similar services;

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- workplace security and public safety; and
- ensuring workers have appropriate licences and training to undertake the construction work.

(f) The H&S plan must contain:

- a general description of the type of work activities involved in the project and not just a description of the facility to be constructed;
- the project program or schedule details, including start and finish dates, showing principal activities;
- details of client, design team, principal contractor, subcontractors, and major suppliers; and
- extent and location of relevant existing records, surveys, site investigation and geotechnical reports, 'as-built' plans, H&S files.

## 10. HEALTH AND SAFETY FILE

- The H&S file is a document prepared by the principal contractor containing important project H&S information for use by the owner of the completed structure after construction has been completed.
- The principal contractor is responsible for producing an H&S file. It contains important project H&S information for use by the owner of the completed structure after construction has been completed. It is essential that the process of compiling the file commences as early as possible to ensure sufficient time to gather the required information.
- The Principal Contractor must, in terms of Construction Regulation 7(2) (b), keep a Health & Safety File on site at all times that must include all documentation required in terms of the Act and Regulations and must also include a list of all Contractors on site that are accountable to the Principal Contractor and the agreements between the parties and details of work being done. A more detailed list of documents and other legal requirements that must be kept in the Health & Safety File.

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5(1)(n) to ensure that the principal Contractor has implemented, is adhering to and is maintaining the agreed and approved OH&S Plan.

- A representative of the Principal Contractor and the relevant Health and Safety Representative(s) (SHE-Reps) must accompany the Client and/or its Agent on its behalf on all Audits and Inspections and may conduct their own audit/inspection at the same time. Each party will, however, take responsibility for the results of his/her own audit/inspection results. The Client and/or its Agent on its behalf may require to be handed a copy of the minutes of the previous Health and Safety Committee meeting reflecting possible recommendations made by that committee to the Employer for reference purposes.

### 11.1.2 Health & Safety Incident/accident reporting & investigations

- The Principal Contractor shall report all incidents where an employee is injured on duty to the extent that he/she:
  - dies
  - becomes unconscious
  - loses a limb or part of a limb
  - is injured or becomes ill to such a degree that he/she is likely either to die or to suffer a permanent physical defect or likely to be unable for a period of at least 14 days either to work or continue with the activity for which he/she was usually employed

OR where:

- a major incident occurred
- the health or safety of any person was endangered
- where a dangerous substance was spilled
- the uncontrolled release of any substance under pressure took place
- machinery or any part of machinery fractured or failed resulting in flying, falling or uncontrolled moving objects

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d) The contractor must ensure that the client's format and layout of the H&S file is adhered to. The contractor must identify the responsible person that will prepare the H&S file and who will be responsible for the drafting of as-built drawings. The contractor must establish procedures:

e) The Health and Safety File will remain the property of the Client and/or its Agent on its behalf throughout the period of the project and shall be consolidated and handed over to the Client and/or its Agent on its behalf at the time of completion of the project.

## 11. OH&S GOALS AND OBJECTIVES AND ARRANGEMENTS FOR MONITORING AND REVIEWING OH&S PERFORMANCE

The Principal Contractor is required to maintain an acceptable disabling incident frequency rate (DIFR) and report on this to the Client and/or its Agent on its behalf on a monthly basis.

### 11.1 IDENTIFICATION OF HAZARDS AND DEVELOPMENT OF RISK ASSESSMENTS, STANDARD WORKING PROCEDURES (SWP) AND METHOD STATEMENTS

The Principal Contractor is required to develop Risk Assessments, Standard Working Procedures (SWP) and Method Statements for each activity executed in the contract or project.

The identification of hazards is over and above the hazards identification programme and those hazards identified during the drafting of the Health and Safety Plan.

#### 11.1.1 Monthly Audit by Client and/or its Agent.

The Client and/or its Agent on its behalf will be conducting Periodic Audits at times agreed with the Principal Contractor Audit to comply with Construction Regulation

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vi. Machinery ran out of control, to the Provincial Director of the Department of Labour within seven days and at the same time to the Client and/or its Agent on its behalf.

b) The Principal Contractor is required to provide the Client and/or its Agent on its behalf with copies of all statutory reports required in terms of the Act and the Regulations.

c) The Principal Contractor is required to provide the Client and/or its Agent on its behalf with a monthly "SHE Risk Management Report".

d) The Principal Contractor is required to provide a.s.a.p. the Client and/or its Agent on its behalf with copies of all internal and external accident/incident investigation reports. The Principal Contractor is responsible to oversee the investigation of all accidents/incidents where employees and non-employees were injured to the extent that he/she/they had to receive first aid or be referred for medical treatment by a doctor, hospital or clinic. (General Administrative Regulation 9)

(e) The results of the investigation to be entered into the Accident/Incident Register listed above. (General Administrative Regulation 9)

(f) The Principal Contractor is responsible for the investigation of all non-injury incidents as described in Section 24 (1) (b) & (c) of the Act and keeping a record of the results of such investigations including the steps taken to prevent similar incidents in future.

(g) The Principal Contractor is responsible for the investigation of all accidents relating to the construction site and keeping a record of the results of such investigations including the steps taken to prevent similar accidents in future.

(h) Notwithstanding the requirements of Section 24 of the Act, ALL incidents shall be investigated and reported on in writing, irrespective of whether such incident gave rise to injury or damage.

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(i) **Reporting Of Near-Misses**

- South African Police Service views the reporting of near misses as a critical component in creating a positive health and safety awareness culture on site.
- South African Police Service retains the right to enforce the reporting of near misses within 24 hours of occurrence.

**12. Review**

The Principal Contractor is to review the Hazard Identification, Risk Assessments and Standard Work Processes at each Production Planning and Progress Report meeting as the construction work develops and progresses and each time changes are made to the designs, plans and construction methods and processes.

The Principal Contractor must provide the Client and/or its Agent on its behalf, other Contractors and all other concerned parties with copies of any changes, alterations or amendments as contemplated in the above paragraph.

**12.1 Site Rules and other Restrictions**

**a) Site OH&S Rules**

The Principal Contractor must develop a set of site-specific OH&S rules that will be applied to regulate the Health and Safety Plan and associated aspects of the construction. When required for a site by law, visitors and non-employees upon entering the site shall be issued with the proper Personal Protective Equipment (PPE) as and when necessary.

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- H&S Representatives must form part of the incident/accident investigating team.

**12.1.3 Establishment of H&S Committee(s)**

- The Principal Contractor must establish H&S Committees consisting of designated H&S Representatives together with a number of Employers Representatives appointed as per Section 19(3) that are not allowed to exceed the number of H&S Representatives on the committee.
- The persons nominated by the employer on a H&S Committee must be designated in writing for such period as may be determined by him. The H&S Committee shall co-opt advisory (temporary) members and determine the procedures of the meetings including the chairmanship.
- The H&S Committee must meet minimum monthly and consider, at least, an agreed Agenda for the first meeting. Thereafter the H&S Committee shall determine its own procedures.

**12.1.4 Training & Awareness**

The contents and syllabi of all training required by the Act and Regulations including any other related or relevant training as required must be included in the Principal Contractor's Health and Safety Plan and Health and Safety File.

**a) Training & Induction**

All employees performing work or task on site that potentially impact on H&S must be competent & have the necessary appropriate education, training & experience.

All the training must be closely aligned with the risk profile of the project; procedures must be put in place to ensure that all workers are aware of the consequences of their work activities & benefits of improved H&S performance.

All employees of the Principal and other Contractors must be in possession of proof of General Induction training

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**b) Security Arrangements**

The Principal Contractor must establish site access rules and implement and maintain these throughout the construction period. Access control must include the rule that non-employees shall at all times be provided with fulltime supervision while on site. The Principal Contractor must develop a set of Security rules and procedures and maintain these throughout the construction period.

If not already tasked to the H&S Officer appointed in terms of Construction Regulation, the Principal Contractor must appoint a competent person who must develop contingency plans for any emergency that may arise on site as indicated by the risk assessments.

**12.1.1 Appointment of Health & Safety Representatives**

**a) H&S Representatives("SHE – Reps")**

Where the Principal Contractor employs more than 20 persons (including the employees of other Contractors (sub-contractors) he has to appoint one H&S Representatives for every 50 employees or part thereof. (Section 17 of the Act and General Administrative Regulation 6. & 7.)

H&S Representatives must be appointed in writing and the designation shall be in accordance with the Collective Agreement as concluded between the parties as is required in terms of General Administration Regulation 6.

**12.1.2 Duties and Functions of the H&S Representatives**

- The Principal Contractor must ensure that the designated H&S Representatives conduct at least a weekly inspection of their respective areas of responsibility using a checklist developed by a Principal Contractor.
- The report must be consolidated and submitted to the Health & Safety Committee.

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**b) Site Specific Induction Training**

All employees of the Principal and other Contractors must be in possession of Site Specific Occupational Health and Safety Induction or other qualifying training.

**c) Other Training**

All operators, drivers and users of construction vehicles, mobile plant and other equipment must be in possession of valid proof of training.

**13. PROJECT/SITE SPECIFIC REQUIREMENTS**

The following is a list of specific activities and considerations that have been identified for the project and site and for which Risk Assessments, Standard Working Procedures (SWP), management and control measures and Method Statements (where necessary) have to be developed by the Principal Contractor:

- a) Cleaning & grabbing the area/site
- b) Site establishment
- c) Dealing with existing structures
- d) Location of existing services
- e) Boundary & Access control/Public liability exposures
- f) Protection against heat exhaustion, dehydration, wet & cold conditions
- g) Dealing with HIV & aids other related diseases
- h) Use of portable electrical & explosive tools
- i) Any Excavation work and Demolition work
- j) Any welding work
- k) Loading & offloading of trucks
- l) Driving & operations of Construction vehicles & mobile plant
- m) Temporal works and
- n) Construction work as defined in the construction regulation 2014

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14. OUTLINED DATA, REFERENCES AND INFORMATION ON CERTAIN AND/OR SPECIFIC OBLIGATORY REQUIREMENTS TO ENSURE COMPLIANCE

Administrative & Legal Requirements

OH&S Act Section/Regulation	Subject	Requirements
Construction Regulation 4	Notice of carrying out Construction work	<ul style="list-style-type: none"> <li>Department of Labour notified</li> <li>Copy of Notice available on Site</li> </ul>
General Admin. Regulation 4	Copy of OH&S Act (Act 86 of 1993)	<ul style="list-style-type: none"> <li>Updated copy of Act &amp; Regulations on site</li> <li>Readily available for perusal by employees</li> </ul>
COID Act Section 80	Registration with Compensation Insurer	<ul style="list-style-type: none"> <li>Written proof of registration/Letter of good standing available on Site</li> </ul>
Construction Regulation 3 & 7(1)	H&S Specification & Programme	<ul style="list-style-type: none"> <li>H&amp;S Spec received from Client and/or its Agent on its behalf</li> <li>OH&amp;S programme developed &amp; Updated regularly</li> </ul>
Section 6(2)(d) Construction Regulation 9	Hazard Identification & Risk Assessment	<ul style="list-style-type: none"> <li>Risk Assessment and - Plan drawn up/updated</li> <li>RA Plan available on Site</li> <li>Employees/Sub-Contractors informed/trained</li> </ul>
Section 16(2)	Assigned duties (Managers)	<ul style="list-style-type: none"> <li>Responsibility of complying with the OH&amp;S Act assigned to other persons by CEO</li> </ul>
Construction Regulation 5(1)	Designation of Person Responsible on Site	<ul style="list-style-type: none"> <li>Competent person appointed in writing as Construction Supervisor with job description</li> </ul>
Construction Regulation 6(2)	Designation of Assistant for above	<ul style="list-style-type: none"> <li>Competent person appointed in writing as Assistant Construction Supervisor with job description</li> </ul>
Section 17 & 18 General Administrative Regulations 6 & 7	Designation of Health & Safety Representatives	<ul style="list-style-type: none"> <li>More than 20 employees - one H&amp;S Representative, one additional H&amp;S Rep. for each 50 employees or part thereof.</li> <li>Designation in writing, period and area of responsibility specified in terms of G&amp;R 6 &amp; 7</li> <li>Meaningful H&amp;S Rep. reports</li> <li>Reports actioned by Management</li> </ul>

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Section 19 & 20 General Administrative Regulations 5	Health & Safety Committees	<ul style="list-style-type: none"> <li>H&amp;S Committees established</li> <li>All H&amp;S Reps shall be members of H&amp;S Committees</li> <li>Additional members are appointed in writing</li> <li>Meetings held monthly, Minutes kept</li> <li>Actioned by Management</li> </ul>
Section 37(1) & (2)	Agreement with Mandatories/ Sub-Contractors	<ul style="list-style-type: none"> <li>Written agreement with Sub-Contractors</li> <li>List of Sub-Contractors deployed</li> <li>Proof of Registration with Compensation Insurer/Letter of Good Standing</li> <li>Construction Supervisor designated</li> <li>Written arrangements re</li> <li>H&amp;S Reps &amp; H&amp;S Committee</li> <li>Written arrangements re First Aid</li> </ul>
Section 24 & General Admin. Regulation 8 COID Act Sect 38, 39 & 41	Reporting of Incidents (Dept. of Labour)	<ul style="list-style-type: none"> <li>Incident Reporting Procedure deployed</li> <li>All incidents in terms of Sect. 24 reported to the Provincial Director, Department of Labour, within 3 days (Annexure 1)(WSL 1 or 2) and to the Client and/or its Agent on its behalf</li> <li>Copies of Occupational Disease Reported</li> <li>Copies of Reports available on Site</li> <li>Record of First Aid injuries kept</li> </ul>
General Admin. Regulation 9	Investigation and Recording of Incidents	<ul style="list-style-type: none"> <li>All injuries which resulted in the person receiving medical treatment other than first aid, recorded and investigated by investigator designated in writing</li> <li>Copies of Reports (Annexure 1) available on Site</li> <li>Tabled at H&amp;S Committee meeting</li> <li>Action taken by Site Management</li> </ul>
Construction Regulation 10	Fall Prevention & Protection	<ul style="list-style-type: none"> <li>Competent person appointed to draw up the Fall Protection Plan</li> <li>Proof of appointees competence available on Site</li> <li>Risk Assessment carried out for work at heights</li> <li>Fall Protection Plan drawn up/updated</li> <li>Available on Site</li> </ul>
Construction Regulation 10	Cranes & Lifting Machines Equipment Driven Machinery	<ul style="list-style-type: none"> <li>Competent person appointed in writing to inspect Cranes, Lifting Machines &amp; Equipment</li> <li>Written Proof of Competence of above appointee available on Site</li> </ul>

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Regulations 10		<ul style="list-style-type: none"> <li>Cranes &amp; Lifting tackle identified/nombersed</li> <li>Register kept for Lifting Tackle</li> <li>Log Book kept for each individual Crane</li> <li>Inspection - All cranes - daily by operator</li> <li>Tower Cranes - after erection/annually</li> <li>Other cranes - annually by comp. person</li> <li>Lifting tackle(slings/ropes/chain slings etc.) - daily or before every new application</li> </ul>
General Safety Regulation 6(1)(a)	Designation of Stacking & Storage Supervisor	<ul style="list-style-type: none"> <li>Competent Persons with specific knowledge and experience designated to supervise all Stacking &amp; Storage</li> <li>Written Proof of Competence of above appointees available on Site</li> </ul>
Construction Regulation Environmental Regulation 8	Designation of a Person to Co-ordinate Emergency Planning And Fire Protection	<ul style="list-style-type: none"> <li>Person/s with specific knowledge and experience designated to co-ordinate emergency contingency planning and execution and fire prevention measures</li> <li>Emergency Evacuation Plan developed</li> <li>Drilled/Practiced</li> <li>Plan &amp; Records of Drills/Practices available on Site</li> <li>Fire Risk Assessment carried out</li> <li>All Fire Extinguishing Equipment identified and on register</li> <li>Inspected weekly, Inspection Register kept</li> <li>Serviced annually</li> </ul>
General Safety Regulation 3	First Aid	<ul style="list-style-type: none"> <li>Every workplace provided with sufficient number of First Aid boxes. (Required where 5 persons or more are employed)</li> <li>First Aid freely available</li> <li>Equipment as per the list in the OH&amp;S Act</li> <li>One qualified First Aider appointed for every 50 employees. (Required where more than 10 persons are employed)</li> <li>List of First Aid Officials and Certificates</li> <li>Name of person/s in charge of First Aid boxes displayed</li> <li>Location of First Aid boxes clearly indicated</li> <li>Signs instructing employees to report all</li> <li>Injuries/illness including first aid injuries</li> </ul>

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General Safety Regulation 2	Personal Safety Equipment (PSE)	<ul style="list-style-type: none"> <li>PSE Risk Assessment carried out</li> <li>Forms of PSE prescribed/use enforced</li> <li>Records of Issue kept</li> <li>Undertaking by Employees to use/wear PSE</li> <li>PSE remain property of Employer, not to be removed from premises CSIR 21(d)</li> </ul>
General Safety Regulation 9	Inspection & Use of Welding/Flame Cutting Equipment	<ul style="list-style-type: none"> <li>Competent Persons with specific knowledge and experience designated to inspect Electric Arc, Gas Welding and Flame Cutting Equipment</li> <li>Written Proof of Competence of above appointee available on Site</li> <li>All new vessels checked for leaks, leaking vessels NOT taken into stock but returned to supplier immediately</li> <li>Equipment identified/nombersed and entered into a register</li> <li>Equipment inspected weekly, Inspection Register kept</li> <li>Separate, purpose made storage available for full and empty vessels</li> <li>Competent person appointed in writing to inspect Ladders</li> <li>Ladders inspected at arrival on site and weekly thereafter, Inspections register kept</li> <li>Application of the types of ladders (wooden, aluminium etc.) regulated by training and inspections and noted in register</li> </ul>
General Safety Regulation 13A	Inspection of Ladders	<ul style="list-style-type: none"> <li>Competent person appointed in writing to supervise the erection &amp; inspection of Ramps, inspection register kept</li> <li>Daily inspected and noted in register</li> </ul>
General Safety regulation 13B	Ramps	

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## 15. THE PRINCIPAL CONTRACTOR'S GENERAL DUTIES

- The Principal Contractor shall at all times ensure his status of an "employer" as referred to in the Act, and will abide by his/her responsibilities, duties and functions as per the requirements of the Act and Regulations with specific reference to Section 8 of the Act.
- The Principal Contractor shall keep, and on demand make available, a copy of the Act on site at all times and in addition to that he/she will introduce and maintain a file titled "Health and Safety File", or other record in permanent form, which shall contain all relevant aspects and information as contemplated in the Construction Regulations. He/she will make this file available to the client or his representative whenever necessary or on request to an interested party.
- The project under control of the Principal Contractor shall be subject to periodic health and safety audits that will be conducted by the client at intervals agreed upon between the Principal Contractor and the client, provided such intervals will not exceed periods of one month.
- The Principal Contractor is to ensure that he/she and all persons under his control on the construction site shall adhere to the above specifications.
- The Principal Contractor should note that he/she shall be held liable for any anomalies including costs and resulting deficiencies due to delays caused by non-conformance and/or non-compliance to the above Health and Safety Specifications and the Health and Safety Plan based on these specifications.

## 16. THE PRINCIPAL CONTRACTOR'S SPECIFIC DUTIES

The Principal Contractor's specific duties in terms of these specifications are detailed in the Construction Regulations as published under government notice 07 February 2014, stipulated in Section 7.

## 17. THE PRINCIPAL CONTRACTOR'S SPECIFIC RESPONSIBILITIES WITH REGARD TO HAZARDOUS ACTIVITIES

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- d. The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) as amended and relevant proclaimed Regulations (SABS 0400)
- e. The Post Office Act 1958 (Act 44 of 1958) as amended
- f. The Electricity Act 1984, Act 41 of 1984
- g. The Regulations of Local Gas Board(s), including Publications of the SABS Standards and Codes of Practice, with specific reference to GNR 17468 dated 4<sup>th</sup> October 1997
- h. Legislation pertaining to water usage and the environment
- i. Legislation governing the use of equipment, which may emit radiation (e.g. X-Rays etc.)
- j. Common Law

## 19. HOUSEKEEPING

Good housekeeping will be maintained at all times as per Construction Regulation No. 27. Poor housekeeping contributes to three major problems, namely, costly or increased accidents, fire or fire hazards and reduction in production. Good housekeeping will enhance production time.

In promotion of environmental control all waste, rubble, scrap etc, will be disposed of at a registered dump site and records will be maintained. Where it is found to be impractical to use a registered dump site or it is not available, the Principal Contractor will ensure that the matter is brought to record with the client or his representative, after which suitable, acceptable alternatives will be sought and applied.

Dross and refuse from metals, and waste matters or by-products whose nature is such that they are poisonous or capable of fermentation, putrefaction or constituting a nuisance shall be treated or disposed of by methods approved of by an inspector.

NOTE: No employer (Principal Contractor) shall require or permit any person to work at night or after hours unless there is adequate, suitable artificial lighting including support services in respect of Health and Safety.

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The following examples of activities are identifiable as hazardous in terms of the Construction Regulations. The contractor shall execute the activities in accordance with the following Construction Regulations and other applicable regulations of the Act:

- Fall protection
- Structures
- Excavation work
- Demolition work
- Scaffolding
- Construction vehicles & mobile plant
- Water environments
- Housekeeping on construction sites
- Fire precautions on construction sites.

This list must not be taken to be exclusive or exhaustive! All of the above requirements will be read in conjunction with the relevant regulations and health and safety standards as required by the Act. All documents and records required by the Construction Regulations will be kept in the Health and Safety File and will be made available at any time when required by the client or his representative, or on request to an interested party.

## 18. GENERAL NOTES TO THE PRINCIPAL CONTRACTOR

### Legal Framework

#### Part of legal obligations

The more important Acts and relevant subordinate/secondary legislation as well as other (inter alia Local Government) legislation that also apply to the State as well as to State owned buildings and premises: -

- a. The latest issue of SABS 0142: "Code of Practice for the Wiring of Premises"
- b. The Local Government Ordinance 1939 (Ordinance 17 of 1939) as amended and the municipal by-laws and any special requirements of the local supply authority
- c. The Fire Brigade Services Act 1987, Act 99 of 1987 as amended

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## 20. FACILITIES

The site establishment plan shall make provision for:

### 20.1 Dining room facilities

The contractor shall make provision for adequate dining room facilities for his employees on site.

### 20.2 Change rooms

The contractor shall make provision for adequate change rooms for his employees on site.

### 20.3 Ablution facilities

The contractor shall make provision for adequate ablution facilities for his employees on site.

### 20.4 Smoking Areas

Designated smoking areas shall be established by Principal Contractor

### 20.5 Drinking Water Facilities

The provision of drinking water facilities shall be negotiated between the Contractor and client

### 20.6 Equipment Compliance Certificates

Before equipment is brought on site valid certificates of compliance issued by a competent person shall be presented. The equipment includes but shall not be limited to:

- i. lifting equipment and lifting tackle
- ii. power driven machinery
- iii. electrical equipment
- iv. testing and monitoring equipment

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## 20.7 Barricading

All barricading shall be of the rigid type unless the use of non-rigid barricading has been approved in writing by South African Police Service Project Manager. The contractors' barricading standard shall be included in the Health and Safety Plan.

Where more than one contractor is working on a site, the fixed barricading shall be clearly marked with the company's name, site contact person as well as the contact number/s.

## 20.8 Erection of Structures for Logistic Support

Prior to site establishment South African Police Service shall approve the contractor's site plan.

South African Police Service shall approve all structures erected for logistical support by the contractor. These structures include fences, workshops, tool sheds, offices, ablution facilities, etc.

## 20.9 Salvage Yard Management

Depending on the site specific arrangements and procedures, South African Police Service may provide the salvage yard and the resources to manage it.

The salvage yard management shall conform to safety, health and environmental requirements. The contractors are required to move the equipment from the place of work to the salvage yard.

## 20.10 Fall Arrest and Prevention Equipment

Approved fall prevention equipment shall be used at heights of less than 2.0 metres. Above heights of 2.0 metres fall prevention equipment shall include fall arrest Equipment. Users of fall arrest equipment shall, amongst other things be trained in what an appropriate load bearing point is for connecting fall prevention equipment. Any deviation from this requirement shall be negotiated and agreed with South African Police Service in writing.

- 1) an evaluation of the method of the work to be conducted
- 2) the method statement on the procedure to be followed in performing the task shall be developed
- 3) the risk assessment will also include activities like:
  - i. Transportation of passengers and goods to and from site
  - ii. Site establishment
  - iii. Physical and mental capabilities of employees
  - iv. Others as may be specified.
- 4) the hazards as listed in the paragraph – Site Specific Health and Safety Hazards
- 5) a review plan for risk assessments shall provide for:
  - i. the quarterly review of all applicable risk assessments
  - ii. the review of an assessment if there is reason to believe that the previous assessment is no longer valid, or there has been a change in a process, work methods, equipment or procedures and working conditions
  - iii. Risk assessment/s to be reviewed if the outcome of incident investigations and audits etc. requires such action.

A pre - task risk assessment shall be conducted in writing on every task and be facilitated by the team leader. All risk assessments and pre-task risk assessments shall be filed and be available on site.

### b) Risk Profile

All contractors shall submit a risk profile of the work to be conducted with their Health and Safety Plan.

### c) Risk Based Inspection Program

The inspection programme shall be risk based. The inspection plan shall form part of the Health and Safety Plan.

## 20.11 Hazardous Chemical Substances Waste Removal

South African Police Service shall provide a facility to collect all hazardous chemical waste material. The contractor shall provide adequately marked and sealable containers to transport the hazardous chemical waste from the source to the approved South African Police Service disposal point

## 20.12 Personal Protective Equipment (PPE)

Personal protective equipment issued shall be specific to the risks associated with the work to be performed and specific to conditions on site and shall comply with South African National Standards (SANS).

## 21. LOCKOUT SYSTEMS

A system of control shall be established in order that no unauthorized person can energize a circuit, open a valve, or activate a machine on which people are working or doing maintenance, even if equipment, plant or machinery is out of commission for any period, thus eliminating injuries and damage to people and equipment as far as is reasonably practicable.

Physical/mechanical lock-out systems shall be part of the safety system and included in training. Lockouts shall be tagged and the system tested before commencing with any work or repairs.

## 22. IMPORTANT LISTS AND RECORDS TO BE KEPT

The following are lists of several records that are to be kept in terms of the Construction Regulations. The lists are:

- i. List of appointments
- ii. List of record keeping responsibilities
- iii. Inspection checklist







### a) Contractor Risk Assessment Process

The risk assessment process shall include:

## IMPORTANT CONTACT DETAILS

(FOR HEALTH & SAFETY ASPECTS ONLY)

The contractor is to add all the important contact information about essentials services, support and assistance.

	SERVICE	NUMBER	CONTACT PERSON
	Hospital		
	Ambulance		
	Water Electricity		
	Police		
	Fire Brigade		
	Engineer		

SECTION 37(2) AGREEMENTS  
CONCLUDED BETWEEN  
SOUTH AFRICAN POLICE SERVICE  
(Hereinafter referred to as South African Police Service)

AND

(Name of contractor/supplier/Agent)

I, .....  
(name) representing ..... [insert name of  
contractor/supplier], do hereby acknowledge that .....  
[insert name of contractor/supplier] is an employer in his/her own right, with duties as prescribed in  
the Occupational Health and Safety Act No. 85 of 1993 ('the Act'), as amended, and agree to ensure  
that all work will be performed and/or machinery or plant used in accordance with the provisions of  
the Act.

I undertake that ..... [insert name of contractor/supplier]  
shall strictly adhere to, and ensure that his/her employees adhere to, the provisions of the  
Occupational Health and Safety Act, 1993 (Act 85 of 1993).

I have been provided with SHE specifications for project/service ..... [insert  
brief details of project/service, for example, name, contract/project number]  
..... and will comply with the requirements set out in these.

I accept and agree that the SHE specifications constitute arrangements and procedures between  
..... [insert name of contractor/supplier/Agent  
Safety Manager/Safety Officer] and South African Police Service which will ensure compliance by  
..... [insert name of contractor/supplier] with the  
provisions of the Act, as contemplated in section 37(2) of the Act.

This agreement constitutes the sole agreement between the parties, and no variation, modification,  
or waiver of any of the provisions of this agreement or consent to any departure from these shall,  
in any manner, be of any force or effect, unless confirmed in writing and signed by both parties, and

such variation, modification, waiver, or consent shall be effective only in the specific instance and  
for the specific purpose and to the extent for which it was made or given.

This agreement is signed on behalf of the parties, each signatory to this warranting that he/she has  
the requisite authority to do so.

Signed this ..... day of ..... 20 ..... at

..... (Place)

(Full name) ..... (Signature) ..... on

behalf of ..... (Supplier/contractor/Agent)

Contractor Responsible Manager (responsible for signing the South African Police Service  
contract on behalf of the contractor)

Witnesses

1. ....

2. ....

Signed this ..... day of ..... 20 .....

at ..... (Place)

(Full name) ..... (Signature) ..... on

Behalf of South African Police Service.

(Contracts and/or Project Manager or South African Police Service representative)

Witnesses

1. ....

2. ....

PROJECT: .....  
(full name AND site address of project)  
(and full or proper description of project)

WCS NO: ..... (works control system number)

SUPERVISION BY THE SOUTH AFRICAN POLICE SERVICE:

Mr /Ms/Me - CONSTRUCTION PROJECT MANAGER  
(add full details of the project manager)

Mr /Ms/Me - CONSTRUCTION MANAGER  
(add full details )

Mr /Ms/Me AGENT:  
(full particulars of agent)

SUPERVISION BY THE PRINCIPAL CONTRACTOR:

PRINCIPAL CONTRACTOR: (full particulars of principle contractor / contractor)

Mr /Ms/Me - CONSTRUCTION HEALTH & SAFETY OFFICER  
(add full details and contact of this officer)

Mr /Ms/Me - CONSTRUCTION HEALTH & SAFETY MANAGER  
(add full details of this officer)

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Mr /Ms/Me

- **CONSTRUCTION MANAGER**  
(add full details of the head of the project)

.....  
.....

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**APPOINTMENT OF CONTRACTOR FOR COMPLETION OF REPAIRS  
AND RENOVATIONS AT INDWE POLICE STATION IN EASTERN CAPE  
PROVINCE**

**BID: 19/1/9/1/13TB(23)**

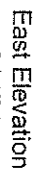
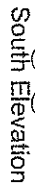
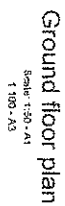
**PART C**

**CONTRACT**

**PART C.3.1**

**DRAWINGS**

**247**



<p><b>WINDOW SCHEDULE</b></p> <p>Order code: 150</p> <p>Unit: Each</p> <p>1. See page 10 for details of window construction and materials.</p> <p>2. See page 10 for details of window construction and materials.</p> <p>3. See page 10 for details of window construction and materials.</p> <p>4. See page 10 for details of window construction and materials.</p> <p>5. See page 10 for details of window construction and materials.</p> <p>6. See page 10 for details of window construction and materials.</p> <p>7. See page 10 for details of window construction and materials.</p> <p>8. See page 10 for details of window construction and materials.</p> <p>9. See page 10 for details of window construction and materials.</p> <p>10. See page 10 for details of window construction and materials.</p>	<p><b>WINDOW SCHEDULE</b></p> <p>Order code: 150</p> <p>Unit: Each</p> <p>1. See page 10 for details of window construction and materials.</p> <p>2. See page 10 for details of window construction and materials.</p> <p>3. See page 10 for details of window construction and materials.</p> <p>4. See page 10 for details of window construction and materials.</p> <p>5. See page 10 for details of window construction and materials.</p> <p>6. See page 10 for details of window construction and materials.</p> <p>7. See page 10 for details of window construction and materials.</p> <p>8. See page 10 for details of window construction and materials.</p> <p>9. See page 10 for details of window construction and materials.</p> <p>10. See page 10 for details of window construction and materials.</p>
<p><b>FRAME FINISH</b></p>	<p><b>FRAME FINISH</b></p>
<p><b>ACCESSORIES</b></p>	<p><b>ACCESSORIES</b></p>
<p><b>GLAZING</b></p>	<p><b>GLAZING</b></p>
<p><b>SIZE</b></p>	<p><b>SIZE</b></p>
<p><b>DESCRIPTION</b></p>	<p><b>DESCRIPTION</b></p>
<p><b>TYPE</b></p>	<p><b>TYPE</b></p>
<p><b>CODE</b></p>	<p><b>CODE</b></p>
<p><b>1</b></p>	<p><b>1</b></p>
<p><b>2</b></p>	<p><b>2</b></p>
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<p><b>6</b></p>	<p><b>6</b></p>
<p><b>7</b></p>	<p><b>7</b></p>
<p><b>8</b></p>	<p><b>8</b></p>
<p><b>9</b></p>	<p><b>9</b></p>
<p><b>10</b></p>	<p><b>10</b></p>

## GENERAL NOTE

[illegible]

248

[illegible]

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GENERAL NOTES:

1. ALL WORK TO COME IN ACCORDANCE WITH NATIONAL AND LOCAL BUILDING REGULATIONS.
2. LAYOUT AND DIMENSIONS TO BE CHECKED ON SITE AND VERIFIED BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE DRAWINGS. OVERALL DIMENSIONS TO TAKE PRECEDENCE.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE WORKING. ALL MEASUREMENTS MUST BE DISCUSSED WITH THE ARCHITECT BEFORE WORK IS CARRIED OUT.

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE REPRODUCED OR USED IN ANY MANNER WITHOUT HIS WRITTEN PERMISSION. THE ARCHITECT ACCEPTS NO LIABILITY FOR ANY DAMAGE OR LOSS OF ANY KIND ARISING FROM THE USE OF THESE DRAWINGS. THE ARCHITECT'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE BUILDING AS SHOWN ON THESE DRAWINGS. THE ARCHITECT DOES NOT ACCEPT RESPONSIBILITY FOR ANY OTHER WORK OR FOR ANY OTHER ASPECTS OF THE PROJECT. THE ARCHITECT'S SERVICES ARE PROVIDED ON A "AS SHOWN" BASIS. THE ARCHITECT DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS. THE ARCHITECT'S SERVICES ARE PROVIDED ON A "AS SHOWN" BASIS. THE ARCHITECT DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION PROVIDED BY OTHERS.

GENERAL NOTES

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2. LAYOUT AND DIMENSIONS TO BE CHECKED ON SITE AND VERIFIED BEFORE SITE WORK COMMENCES.
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4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE WORKING. ALL MEASUREMENTS MUST BE DISCUSSED WITH THE ARCHITECT BEFORE WORK IS CARRIED OUT.

BRICKWORK NOTES

1. BRICKWORK TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL BUILDING REGULATIONS.
2. BRICKWORK TO BE CHECKED ON SITE AND VERIFIED BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE DRAWINGS. OVERALL DIMENSIONS TO TAKE PRECEDENCE.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE WORKING. ALL MEASUREMENTS MUST BE DISCUSSED WITH THE ARCHITECT BEFORE WORK IS CARRIED OUT.

CONCRETE NOTES

1. CONCRETE TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL BUILDING REGULATIONS.
2. CONCRETE TO BE CHECKED ON SITE AND VERIFIED BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE DRAWINGS. OVERALL DIMENSIONS TO TAKE PRECEDENCE.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE WORKING. ALL MEASUREMENTS MUST BE DISCUSSED WITH THE ARCHITECT BEFORE WORK IS CARRIED OUT.

REINFORCEMENT NOTES

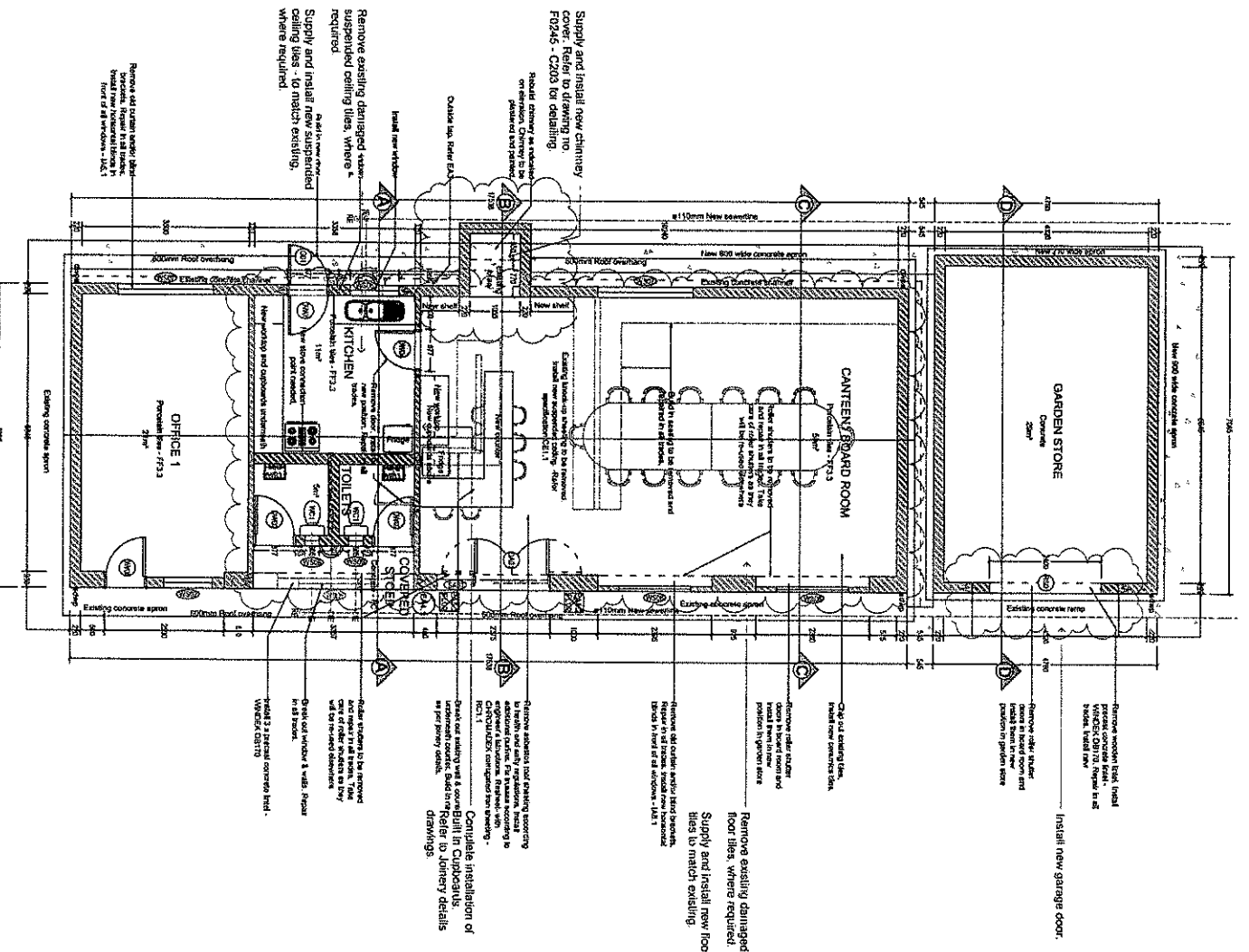
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2. REINFORCEMENT TO BE CHECKED ON SITE AND VERIFIED BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE DRAWINGS. OVERALL DIMENSIONS TO TAKE PRECEDENCE.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE WORKING. ALL MEASUREMENTS MUST BE DISCUSSED WITH THE ARCHITECT BEFORE WORK IS CARRIED OUT.

OTHEL NOTES

1. OTEL TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL BUILDING REGULATIONS.
2. OTEL TO BE CHECKED ON SITE AND VERIFIED BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE DRAWINGS. OVERALL DIMENSIONS TO TAKE PRECEDENCE.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE WORKING. ALL MEASUREMENTS MUST BE DISCUSSED WITH THE ARCHITECT BEFORE WORK IS CARRIED OUT.

THIRER NOTES

1. THIRER TO BE IN ACCORDANCE WITH NATIONAL AND LOCAL BUILDING REGULATIONS.
2. THIRER TO BE CHECKED ON SITE AND VERIFIED BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE DRAWINGS. OVERALL DIMENSIONS TO TAKE PRECEDENCE.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE WORKING. ALL MEASUREMENTS MUST BE DISCUSSED WITH THE ARCHITECT BEFORE WORK IS CARRIED OUT.



Block C - Canteen

1:50

Ground floor plan

Scale 1:50 - A1  
1:100 - A3

Project Name: Block C - Canteen

Project Number: A104

Project Date: 1

Project Location: South African Police Service

Project Manager: A1

Project Engineer: A1

Project Designer: A1

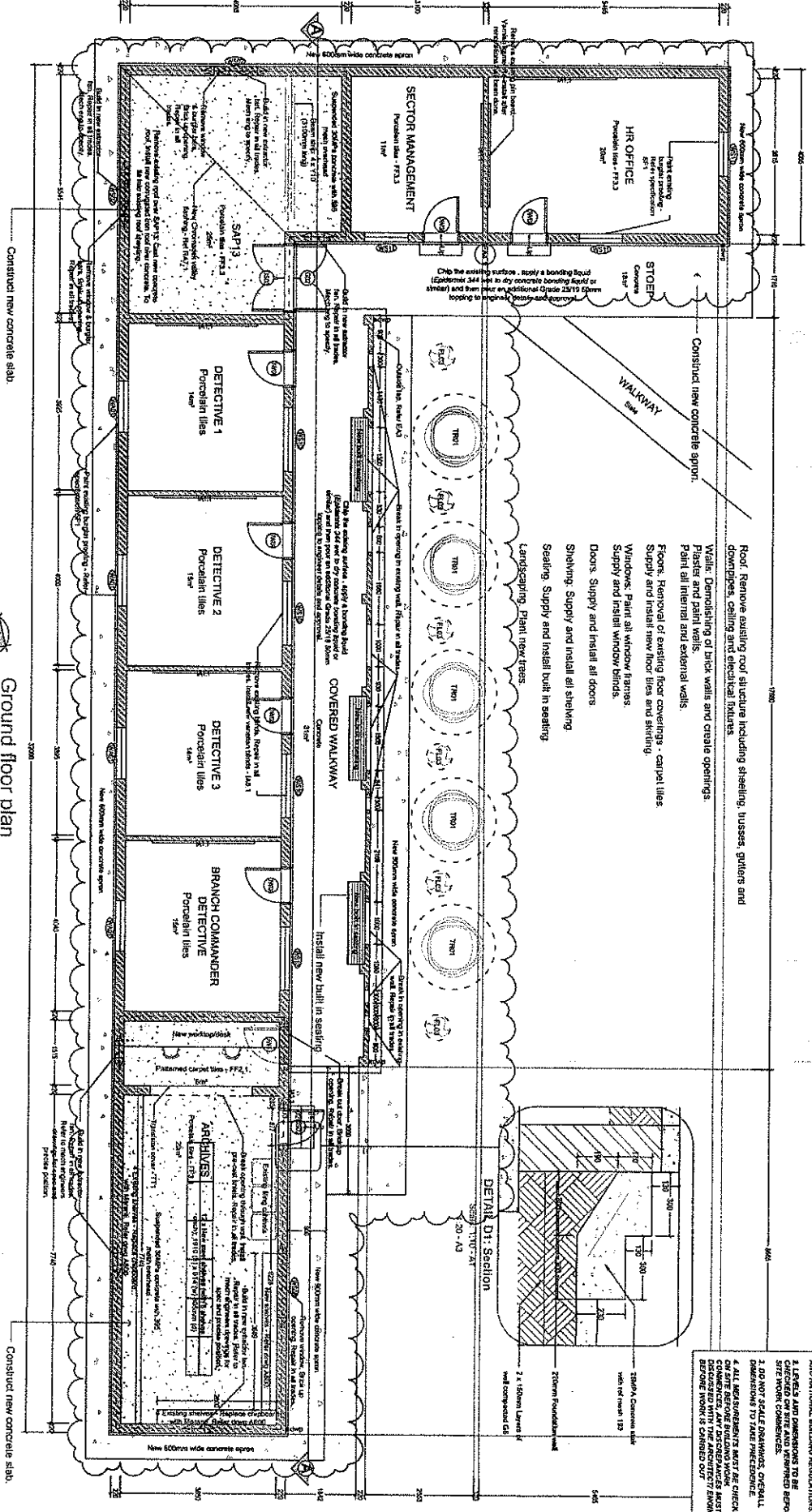
Project Checker: A1

Project Approver: A1

Project Sign-off: A1

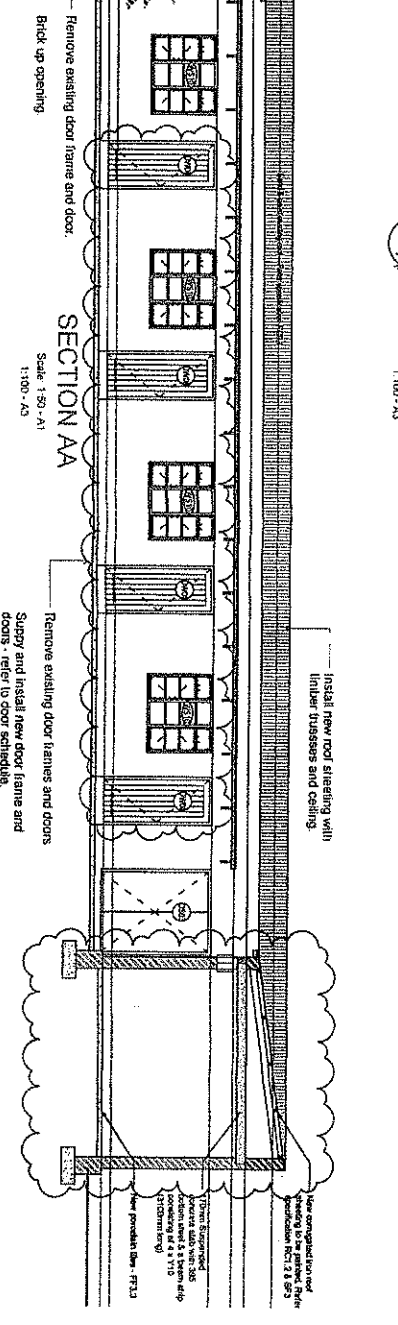
**GENERAL NOTES:**

1. ALL WORK TO COMPLY WITH NATIONAL AND INTERNATIONAL BUILDING REGULATIONS.
2. LAYOUT AND DIMENSIONS TO BE BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE DIMENSIONS OFF DRAWING.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE BUILDING WORK COMMENCES. ANY DISCREPANCIES MUST BE REPORTED TO THE ARCHITECT IMMEDIATELY BEFORE WORK IS CHANGED OUT.



**Ground floor plan**  
Scale: 1:50 - A1  
1:100 - A3

**Block D - Detective**  
1:50



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**South African Police Service**  
COMMUNITY & PROTECTIVE DIVISION

**Project Number:** \_\_\_\_\_

**Block D - Detective Offices**

**Author:** \_\_\_\_\_

**Drawn by:** \_\_\_\_\_

**Checked by:** \_\_\_\_\_

**Scale:** 1:50 - A1  
1:100 - A3

**Sheet:** A105

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**GENERAL NOTES:**

1. ALL WORK TO COMPLY WITH NATIONAL AND INTERNATIONAL BUILDING REGULATIONS.

2. LAYOUT AND DIMENSIONS TO BE BEFORE SITE WORK COMMENCES.

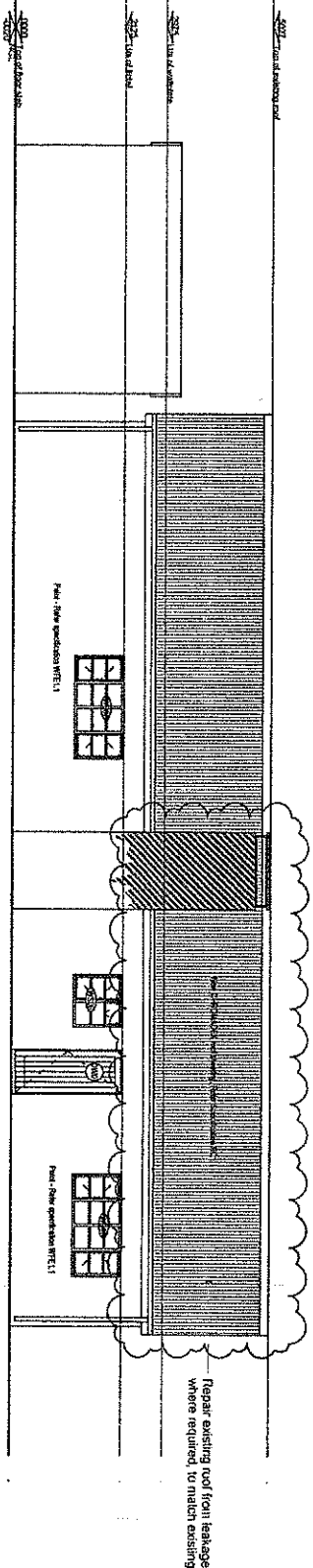
3. DO NOT SCALE DIMENSIONS OFF DRAWING.

4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE BUILDING WORK COMMENCES. ANY DISCREPANCIES MUST BE REPORTED TO THE ARCHITECT IMMEDIATELY BEFORE WORK IS CHANGED OUT.

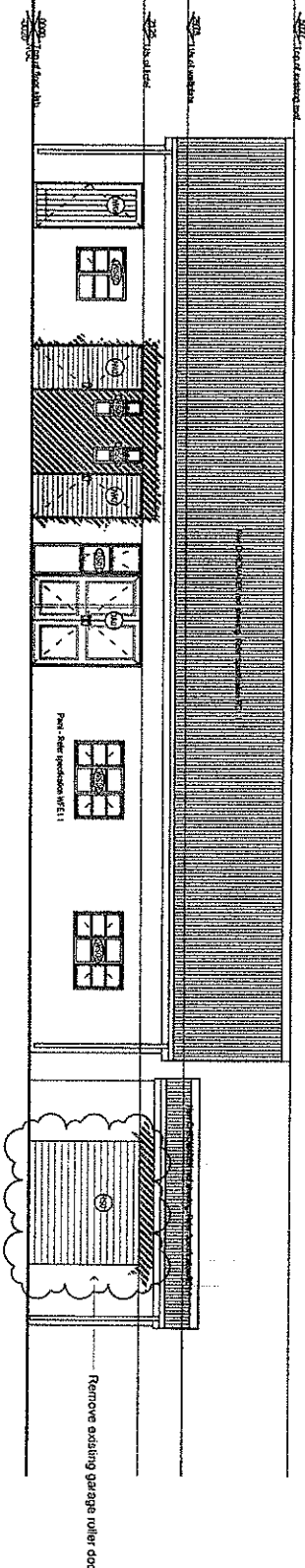


**GENERAL NOTES:**

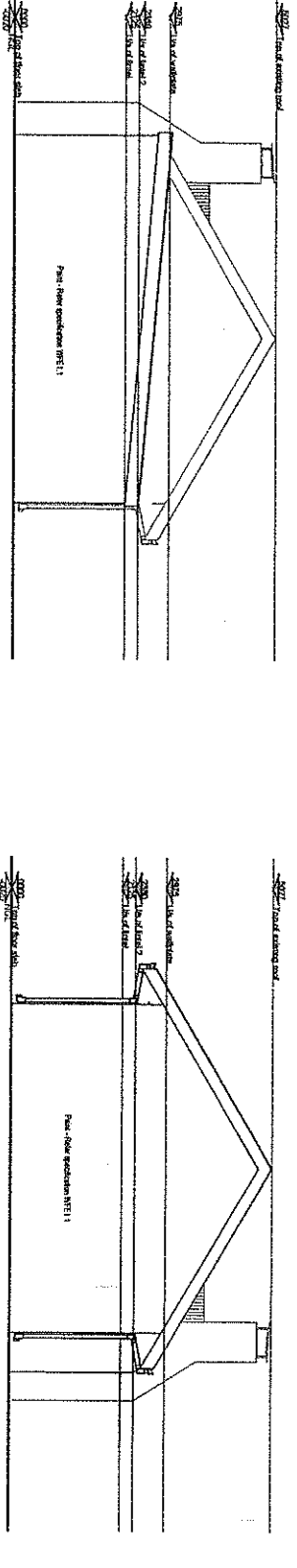
1. ALL WORK TO COMPLY WITH NATIONAL BUILDING REGULATIONS AND STANDARDS.
2. LIFTING AND REMOVAL OF EXISTING WORK TO BE COMPLETED BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE OR REMOVE EXISTING WORK UNLESS NECESSARY TO MATCH EXISTING WORK.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE BUILDING WORK STARTS AND DISCUSSED WITH THE ARCHITECT'S ENGINEER BEFORE WORK IS CARRIED OUT.



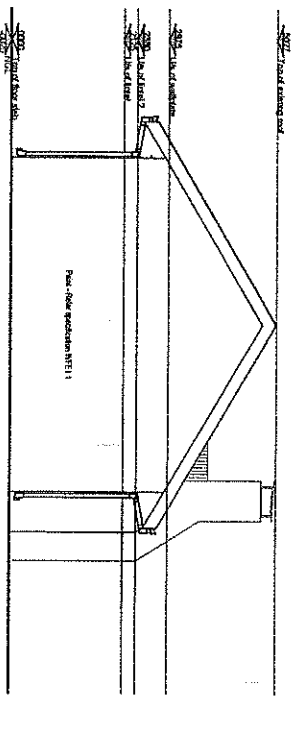
**West Elevation**  
Scale: 1:50 - A1  
1:100 - A3



**East Elevation**  
Scale: 1:50 - A1  
1:100 - A3



**North Elevation**  
Scale: 1:50 - A1  
1:100 - A3



**South Elevation**  
Scale: 1:50 - A1  
1:100 - A3

251

**South African Police Services**

**Project Number:** A106

**Block C - Canteen Elevations**

**Scale:** 1:50 - A1  
1:100 - A3

**Author:** A106

**1**

[illegible]

## APPENDICES

Page 1	Page 2	Page 3	Page 4	Page 5	Page 6	Page 7	Page 8	Page 9	Page 10	Page 11	Page 12	Page 13	Page 14	Page 15	Page 16	Page 17	Page 18	Page 19	Page 20	Page 21	Page 22	Page 23	Page 24	Page 25	Page 26	Page 27	Page 28	Page 29	Page 30	Page 31	Page 32	Page 33	Page 34	Page 35	Page 36	Page 37	Page 38	Page 39	Page 40	Page 41	Page 42	Page 43	Page 44	Page 45	Page 46	Page 47	Page 48	Page 49	Page 50	Page 51	Page 52	Page 53	Page 54	Page 55	Page 56	Page 57	Page 58	Page 59	Page 60	Page 61	Page 62	Page 63	Page 64	Page 65	Page 66	Page 67	Page 68	Page 69	Page 70	Page 71	Page 72	Page 73	Page 74	Page 75	Page 76	Page 77	Page 78	Page 79	Page 80	Page 81	Page 82	Page 83	Page 84	Page 85	Page 86	Page 87	Page 88	Page 89	Page 90	Page 91	Page 92	Page 93	Page 94	Page 95	Page 96	Page 97	Page 98	Page 99	Page 100
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DATE \_\_\_\_\_

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F: 227 (37) 425 0282

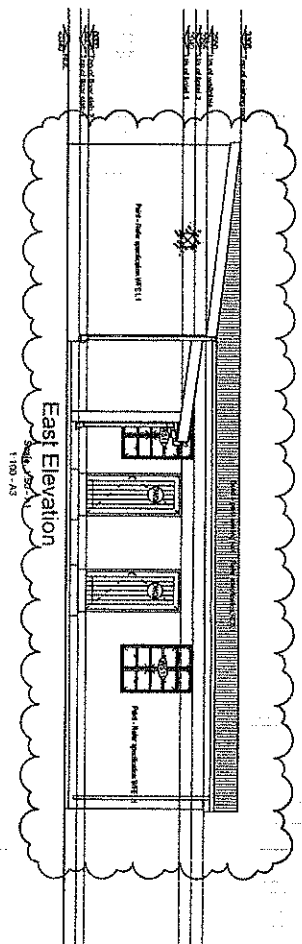
## IMPROVE SALES

## Project

### Block D - Detective Offices Elevations

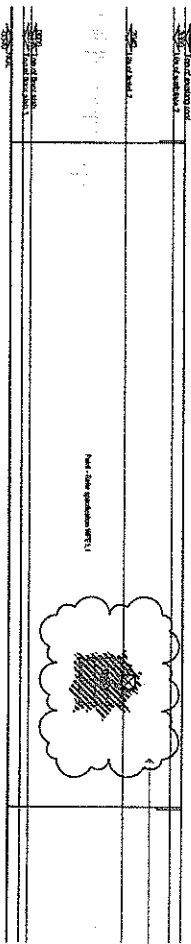
A107

### Block D - Detective Elevations



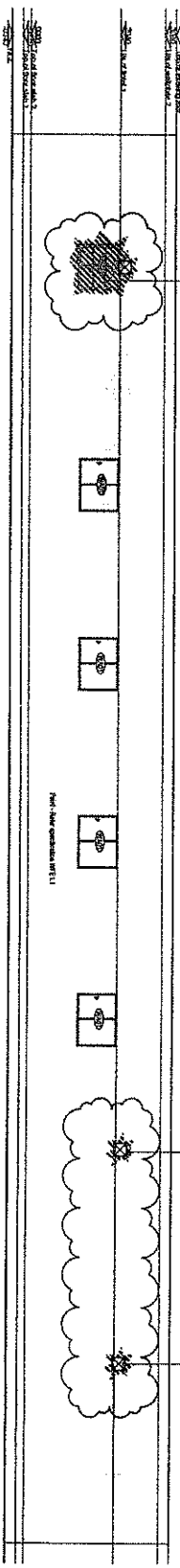
East Elevation  
Scale 1/32" = 1'  
1-100-A3

- Remove existing roof and accessories - fascia board, gutters and downpipes.
- Brick up walls to match level on drawing.
- Plaster and paint walls.
- Install new roof and accessories - fascia boards, gutters and downpipes.



West Elevation

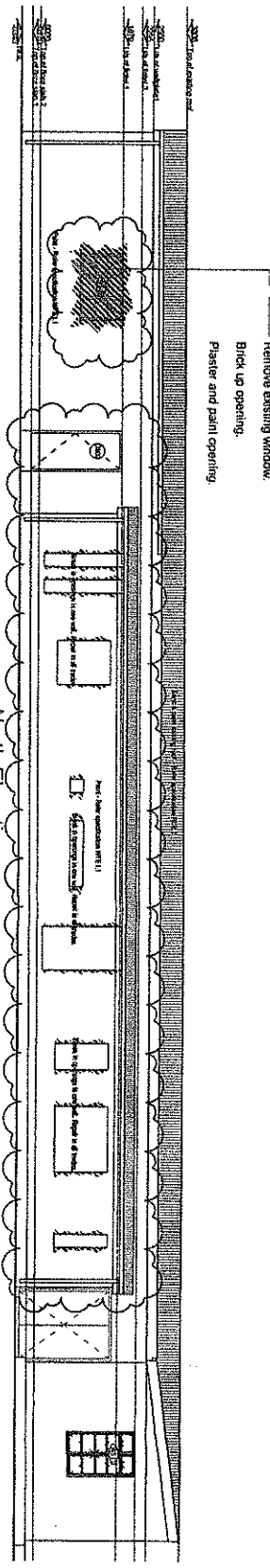
- Remove existing window.
- Brick up opening.
- Plaster and paint opening.



**Remove existing window.**  
**Brick up opening.**  
**Plaster and paint opening.**

West Elevation

Refer to Mechanical Engineers scope.

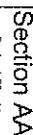


Remove existing window.  
Brick up opening.  
Piers and base(s) covered.

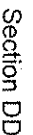
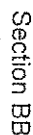
South Elevation

North Elevation

2. LISTS A AND DIMENSIONS TO BE CHECKED ON SITE AND VERIFIED BEFORE SITE WORK COMMENCES.
3. LISTS B AND DIMENSIONS TO BE CHECKED ON SITE AND VERIFIED BEFORE DIMENSIONS TO TAKE PRECEDENCE.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE BUILDING WORK COMMENCES. ANY DISCREPANCIES MUST BE DISCUSSED WITH THE ARCHITECT/ENGINEER BEFORE WORK IS CARRIED OUT

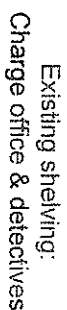
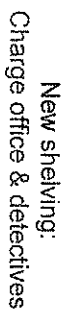
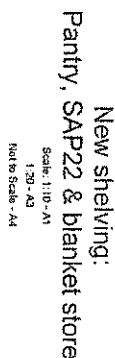
[illegible]

Supply and install Chimney cover

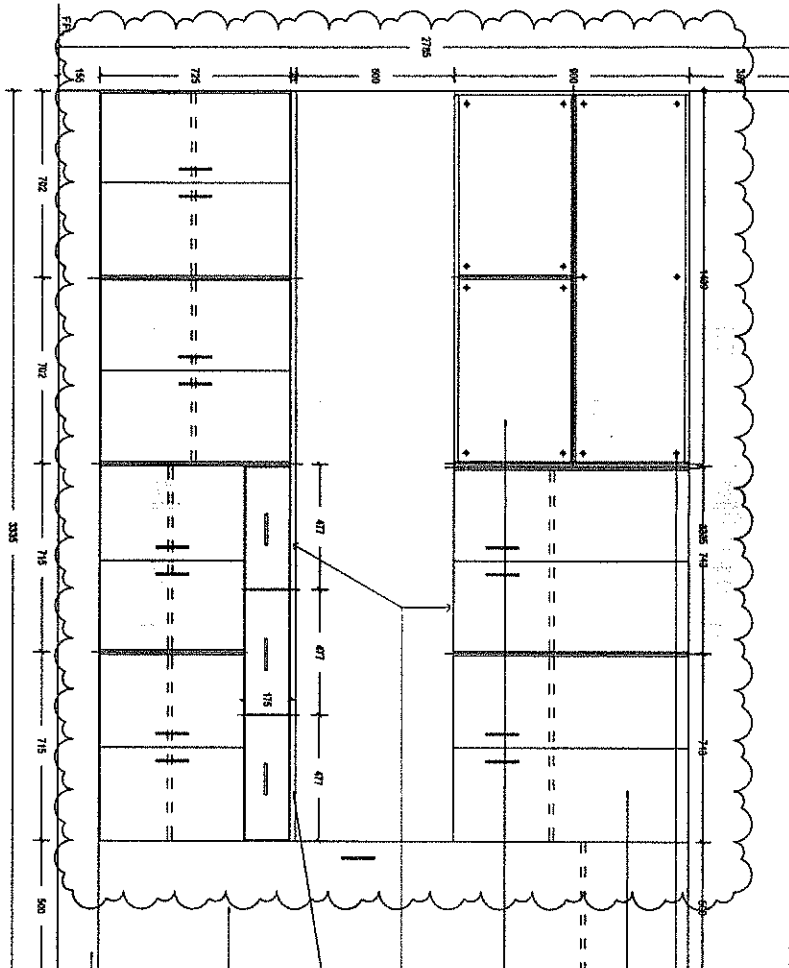


	<p>1</p> <p>Use <input checked="" type="checkbox"/> Pen <input checked="" type="checkbox"/></p> <p>1. Use the standard 11.5 mm diameter plug size 2. Follow step 4 in 11.5 mm section</p>	<p>1</p> <p>Use <input checked="" type="checkbox"/> Pen <input checked="" type="checkbox"/></p> <p>1. Use the standard 11.5 mm diameter plug size 2. Follow step 4 in 11.5 mm section</p>	<p>1</p> <p>Use <input checked="" type="checkbox"/> Pen <input checked="" type="checkbox"/></p> <p>1. Use the standard 11.5 mm diameter plug size 2. Follow step 4 in 11.5 mm section</p>	<p>1</p> <p>Use <input checked="" type="checkbox"/> Pen <input checked="" type="checkbox"/></p> <p>1. Use the standard 11.5 mm diameter plug size 2. Follow step 4 in 11.5 mm section</p>
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254

[illegible]

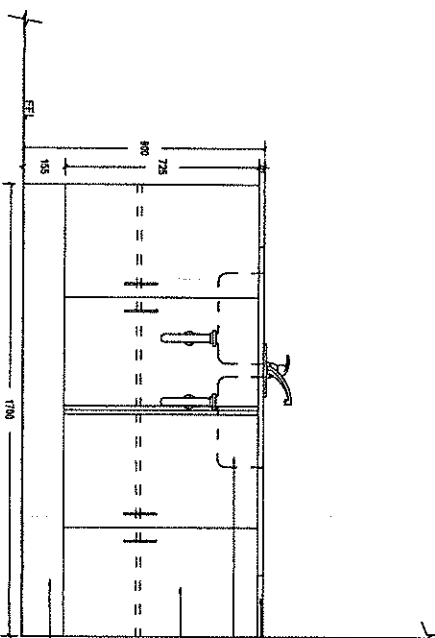
Ceiling Height



# Kitchen Counter - Canteen Elevation

Scale: 1:10 - A1  
1:20 - A3

- 405 bedding panel block.
- 16mm Coloured chipboard applied to all exposed edges with aluminium handles.
- 16mm 1/2" chipboard as bedding for shelves.
- Complete installation of built-in cupboards, where required to match existing.
- 20mm Granite counter top.
- 16mm Coloured chipboard - from impact edging to all exposed edges with aluminium handles.
- 155 x 16mm "V" Coloured chipboard as hospital.



# Kitchen Sink - Canteen Elevation

Scale: 1:10 - A1  
1:20 - A3

- 20mm Granite counter top.
- Standard Double bowl stainless steel sink, Ref. SKC.1
- 16mm Coloured chipboard with impact edging to all exposed edges with aluminium handles.
- 155 x 16mm "V" Chipboard as hospital.

**GENERAL NOTES:**

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE SOUTH AFRICAN NATIONAL BUILDING REGULATIONS AND THE SOUTH AFRICAN NATIONAL STANDARDS.
2. CHECKED ON SITE AND VERIFIED BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE DIMENSIONS, OVERALL DIMENSIONS TO TAKE PRECEDENCE.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE BUILDING WORK STARTS AND DISCREPANCIES MUST BE REPORTED TO THE ARCHITECT BEFORE WORK IS CARRIED OUT.

256

<b>South African Police Service</b> PROJECT: PROJECT NUMBER: 1010 PROJECT NAME: PROJECT NAME: 1010 PROJECT NUMBER: PROJECT NUMBER: 1010		<b>Copyright Waiver in the South African Police Services</b> PROJECT STATUS: PROJECT STATUS: 1010 PROJECT STATUS: PROJECT STATUS: 1010	
<b>Project Details: Canteen</b> PROJECT NUMBER: PROJECT NUMBER: 1010 PROJECT NAME: PROJECT NAME: 1010		<b>Project Details: Canteen</b> PROJECT NUMBER: PROJECT NUMBER: 1010 PROJECT NAME: PROJECT NAME: 1010	

**GENERAL NOTES:**

1. ALL WORK TO COMPLY WITH MUNICIPAL AND NATIONAL BUILDING REGULATIONS.
2. CLIENTS AND DIMENSIONS TO BE PROVIDED BY THE ARCHITECT BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE DIMENSIONS. OVERALL DIMENSIONS TO TAKE PRECEDENCE.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE BUILDING WORK. MUST BE DISCUSSED WITH THE ARCHITECT BEFORE WORK IS COMPLETED.

**GENERAL NOTES:**

1. ALL WORK TO COMPLY WITH MUNICIPAL AND NATIONAL BUILDING REGULATIONS.
2. CLIENTS AND DIMENSIONS TO BE PROVIDED BY THE ARCHITECT BEFORE SITE WORK COMMENCES.
3. DO NOT SCALE DIMENSIONS. OVERALL DIMENSIONS TO TAKE PRECEDENCE.
4. ALL MEASUREMENTS MUST BE CHECKED ON SITE BEFORE BUILDING WORK. MUST BE DISCUSSED WITH THE ARCHITECT BEFORE WORK IS COMPLETED.

257

ROLLER SCHEDULE	
Code	1
Quantity	1
Type	Roller
Description	Roller
Size	Roller
Accessories	
Door Finish	
Frame Finish	

SIDE LIGHT SCHEDULE	
Code	1
Quantity	1
Type	Side Light
Description	Side Light
Size	Side Light
Accessories	
Door Finish	
Frame Finish	

GLAZING SCHEDULE	
Code	1
Quantity	1
Type	Glazing
Description	Glazing
Size	Glazing
Accessories	
Door Finish	
Frame Finish	

GLAZING SCHEDULE	
Code	1
Quantity	1
Type	Glazing
Description	Glazing
Size	Glazing
Accessories	
Door Finish	
Frame Finish	

GLAZING SCHEDULE	
Code	1
Quantity	1
Type	Glazing
Description	Glazing
Size	Glazing
Accessories	
Door Finish	
Frame Finish	

GLAZING SCHEDULE	
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Quantity	1
Type	Glazing
Description	Glazing
Size	Glazing
Accessories	
Door Finish	
Frame Finish	

GATE SCHEDULE	
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Quantity	1
Type	Gate
Description	Gate
Size	Gate
Accessories	
Gate Finish	
Frame Finish	

GLAZING SCHEDULE	
Code	1
Quantity	1
Type	Glazing
Description	Glazing
Size	Glazing
Accessories	
Door Finish	
Frame Finish	

GLAZING SCHEDULE	
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Door Finish	
Frame Finish	

GLAZING SCHEDULE	
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GLAZING SCHEDULE	
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Size	Glazing
Accessories	
Door Finish	
Frame Finish	

GLAZING SCHEDULE	
Code	1
Quantity	1
Type	Glazing
Description	Glazing
Size	Glazing
Accessories	
Door Finish	
Frame Finish	



South African Police Services

Schedule, Canteen

A111

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